The Portfolio R&D+i is presented as one of the key actions aimed to enhance the alliance between University of Málaga (UMA) and the sectors of industry.

UMA has 2,554 staff members dedicated to teaching and research in 21 University centers and 3 affiliated centers between Faculties, Technical Schools and University Institutes. Thanks to their extensive scientific production, to modern infrastructures and up-to-date equipment, UMA offers wide-ranged high quality and scientific-technical services.

We cannot overlook the fact that research is taking on a new dimension which was unthinkable of only a few years ago. Research results have become an essential element for innovation and the competitive advance for companies. It has become part of the engine for the socio-economic progress of the country. At our Technology Transfer Office (OTRI), we are convinced that collaborations between the academic and the business worlds are absolutely necessary in the new knowledge-based economy.

University of Malaga is highly committed to be a key agent for the development of the business world, the new technologies and the technological, economic, environmental, social and cultural environment. With this target and for its achievement, our OTRI uses promotional tools to foster collaborations between the academic world and the companies trusting that research results are the seeds necessary to create new products and processes in benefit of the society.

This Technological Offer involves the research lines and services which the Research Groups of the UMA can offer to the society. The Research Groups are organized by folders, according to the different presentations of the PAI (Plan Andaluz de Investigación/Andalusian Research Plan), which is organized in different knowledge areas or sectors. These presentations are the following:

- AGR - Agriculture
- CTS - Technology and Health Sciences
- HUM - Humanities
- SEJ - Social, Economic and Legal Sciences
- TIC - Information and Communications Technologies
- BIO - Biotechnology
- FQM - Physics, Chemistry and Mathematics
- RNM - Natural Resources and Environment
- TEP - Production Technologies
- Agricultural Biotechnology
- Microbiology and Pathology of Plants
- Improvement and Biotechnology of Fruit and Vegetable Production
- Biochemical Genetic Improvement and Circular Bioeconomy of Horticultural Plants (HORTGENYECO)
INTRODUCTION

This research group has more than 15 years experience in agricultural biotechnology and has a highly qualified research team in the field of biochemistry and molecular biology. The results of their research are directly applicable to the food sector, improving food quality and increasing their added value.

RESEARCH TOPICS

- Cloning and characterization of genes related to the maturation process of the strawberry.
- Identification and characterization of genes essential for tolerance to drought stress and salt in tomato and arabidopsis.
- Plant cuticles and fruit cracking of tomato and pepper streak.
- Proteomics applied to hydrolyzed protein.
- Oligosaccharines as elicitors in defense response against pathogens.

SCIENTIFIC-TECHNICAL SERVICES

- Isolation and characterization of genes for genetic improvement of food plants of interest.
- Peptide sequencing derived from Hydrolyzed Vegetable Proteins.
- Study of factors involved in fruit cracking.
- Employing oligosaccharines as elicitors in defense response against pathogens.

RESEARCH GROUP LEADER: MIGUEL ANGEL BOTELLA MESA
PAI CODE: AGR168

CONTACT
PHONE: 952 134 268  |  FAX: 952 132 000
E-MAIL: mabotella@uma.es  |  WEB:  http://www.bmbq.uma.es/
INTRODUCTION

This research group joins the Department of "Microbiología y Protección de Cultivos" of the Institute named "Instituto de Hortofruticultura Subtropical y Mediterránea "La Mayora"" (IHSM-UMS-CSIC). The activity of this group concentrates on the study of the bacterial and fungal diseases in horticultural and subtropical crops, their management and control and the bases for interactions that take place between microorganisms (at the individual level as well as in microbial communities) in different agricultural environments. It is composed of 12 doctors (7 of whom are staff members) and 8 predoctoral researchers. The group carries out its activities in the Department of Microbiology of the UMA and in the Andalusian Institute of Biotechnology.

RESEARCH TOPICS


SCIENTIFIC-TECHNICAL SERVICES

- Control strategies and phytosanitary research.
- Detection of bacteria and fungi in plants.
- Diagnosis of bacteria and pathogenous fungi.
- Microbiological and toxicity analyses.

RESEARCH GROUP LEADER: FRANCISCO MANUEL CAZORLA LÓPEZ
PAI CODE: AGR169

CONTACT
PHONE: 952 137 587 | FAX: 952131889
E-MAIL: cazorla@uma.es | WEB: https://www.uma.es/departamento-de-microbiologia/info/57332/microbiologia-y-patologia-vegetal/
INTRODUCTION

A research group composed of staff from the UMA and the IFAPA - Churriana Centre. Their personnel are currently one of 12 persons, 5 of whom are active doctors while the rest are interns and technicians. The group concentrates its activities on the regeneration and genetic transformation of species of interest in relation to fruits and vegetables (strawberries, olives, avocados).

RESEARCH TOPICS

- Study of the physiology of the ripening of fruits.
- Genetic improvement of strawberry. Control of the ripening of strawberries by means of genetic transformation.
- Genetic transformation techniques in fruit species (olives and avocados).
- Rejuvenation and micro-propagation of woody plants. Somatic embryogenesis.

SCIENTIFIC-TECHNICAL SERVICES

- Control of the ripening of fruits by means of genetic transformation.
- Micro-propagation of woody plants.
- Regeneration and genetic transformation of fruit species with genes that confer tolerance to pathogens.

RESEARCH GROUP LEADER: JOSÉ ÁNGEL MERCADO CARMONA
PAI CODE: AGR226

CONTACT
PHONE: 952 137 522
E-MAIL: mercado@uma.es | WEB: http://www.ciencias.uma.es/wcien cias/grupos/grupos/morfogenesis. html
INTRODUCTION

Within the HORTGENBIOQ group there are three lines related to agriculture that range from plant genetic improvement to the commercial use of components of the epidermis and cuticles of fruits. The plant genetic improvement line is based on the study of tomato and related species to improve the quality of the fruit and the plant's resistance to pests and diseases. A second line is based on the study of the development of the epidermis and cuticle of tomatoes, which play an important role in the quality and shelf life of the fruits. The third line focuses on research into the use of certain components present in the cuticles of fruits and leaves for the development of commercial products that protect against radiation in the UV-A and UV-B spectral regions.

RESEARCH TOPICS

- Genetics and breeding of horticultural plants.
- Analysis of plant epidermis and cuticles and their biophysical properties.
- Manufacturing of products with defined optical properties from leaf and fruit cuticle components.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice on horticultural plant breeding.
- Morphological and biophysical characterization of epidermis and plant cuticles.
- Manufacture of dermatological components and biodegradable polymers with defined optical properties.
- MOLECULAR BIOLOGY AND BIOTECHNOLOGY
- COMPARATIVE NEUROBIOLOGY
- NITROGEN METABOLISM OF TUMOUR CELLS
- CARDIOVASCULAR STUDIES IN VERTEBRATES
- CELL BIOLOGY AND CELL PHYSIOLOGY. UMA
- MOLECULAR EPIDEMIOLOGY OF NOSOCOMIAL INFECTION
- ENVIRONMENTAL BIOTECHNOLOGY AND GENETICS OF AGRICULTURAL SYSTEMS
- MOLECULAR BASES OF BIOLOGICAL SYSTEMS
- BEHAVIOURAL NEUROSCIENCE
- INTEGRATIVE MOLECULAR BIOLOGY LAB
- SKELETAL BIOMEDICINE LABORATORY
MOLECULAR BIOLOGY AND BIOTECHNOLOGY

INTRODUCTION

The group of Molecular Biology and Biotechnology hoards more than 20 years of dedication to the study of metabolism and its regulation, having used for this different experimental approaches, between that include biochemical, immunological and DNA techniques recombinant. The group has extensive experience in the isolation of genes, in the structural characterization of them, and in the analysis of gene expression. This laboratory has carved a special reputation in the study of nitrogen metabolism thanks to important contributions to the understanding of molecular bases of regulation of assimilation and nitrogen metabolism in eukaryotic models.

RESEARCH TOPICS

- Study of nitrogen metabolism.
- Molecular Engineering and Biotechnology.
- Genomics and Proteomics.

SCIENTIFIC-TECHNICAL SERVICES

- Separation, identification and functional characterization of genes.
- Analysis of the gene expression.
- Purification and molecular characterization of proteins.

RESEARCH GROUP LEADER: FRANCISCO MIGUEL CANOVAS RAMOS
PAI CODE: BIO114

CONTACT
PHONE: 952 131 942  |  FAX: 952 132 000
E-MAIL: canovas@uma.es | WEB: http://www.bmbq.uma.es/fmp
INTRODUCTION

The scientific activity of the research group of the Laboratory of Comparative neurobiology of the UMA includes the comparative and evolutionary study of encephalic areas involved in conditioning, learning and emotions, such as the claustro-amygdal regions in mammals, and their relation with the motor systems responsible for behaviour. In addition to the specific instrumentation and specific methodology for the study of the nervous system of vertebrates, the research group has all the material and technical resources needed for carrying out structural and ultrastructural studies of animal and plant cells and tissues. Likewise, the research group has much experience in numerous techniques for application in various biology fields.

RESEARCH TOPICS

- Expression of homeotic genes in the central nervous system.
- Development of the nervous system in vertebrates.
- Evolution of the prosencephalon in vertebrates.
- Thalamo-mesencephalic relations during the development of the nervous system.

SCIENTIFIC-TECHNICAL SERVICES

- Structural and ultrastructural studies of animal and plant cells and tissues. Optical and electronic microscopy techniques.
- Molecule detection techniques by means of antibodies (immunocytochemistry).
- In situ hybridization techniques.
- Tracing Neural Connections techniques.

RESEARCH GROUP LEADER: Mª ÁNGELES REAL AVILÉS
PAI CODE: BIO121

CONTACT
PHONE: 952 137 514 | FAX: 952 132 000
E-MAIL: mra@uma.es | WEB: http://webdeptos.uma.es/biocel/LNC.htm
NITROGEN METABOLISM OF TUMOUR CELLS

INTRODUCTION

The Cancerómica research group, of the Department of Molecular Biology and Biochemistry of the Faculty of Sciences of the UMA, has the most modern equipment and a highly qualified human team with a wide curriculum in teaching and research works. The group has over 20 years’ experience in research of brain genomics and the molecular bases of cancer, has three patents to its name as well as proven experience in collaborations and contracts with companies.

RESEARCH TOPICS

- Genomics and proteomics of cancer.
- New anti-tumour strategies and targets aimed at tumour glutaminase (GA) as a target.
- Glutamatergic neurotransmission: cell and molecule mechanisms for the synthesis of glutamate (Glu) in the brain.
- Protein chemistry and engineering: Protein-protein interactions between glutaminase and PDZ protein. Structure/function relation of human glutaminase.

SCIENTIFIC-TECHNICAL SERVICES

- Cloning and sequencing of genes.
- Proteins Purification and characterization. Separation of peptides by HPLC.
- Proteomic techniques (2D gels and analysis and identification of proteins by mass spectrometry)
- Heterologous expression of recombinant proteins of biotechnological, agro-feeding, pharmaceutical or therapeutic interest.
- Generation and purification of polyclonal and monoclonal antibodies.
- In vitro cultivation of animal cells.

RESEARCH GROUP LEADER: FRANCISCO JAVIER MÁRQUEZ GÓMEZ
PAI CODE: BIO179

CONTACT
PHONE: 952 132 024 | FAX: 952 132 000
E-MAIL: marquez@uma.es | WEB: http://www.bmbq.uma.es/glutaminasa
INTRODUCTION

The research group Cardiovascular Studies in Vertebrates centers its studies on morphology and embryonic development of the cardiovascular system in vertebrates, as well as aetiology and pathophysiology of cardiovascular diseases. The group regularly carries out research projects in collaboration with the Heart Area of the Virgen de la Victoria Hospital in Málaga, and has a wide experience in research and teaching. Academic work integrates various collaborations with private and public centers.

RESEARCH TOPICS

- Morphology, embryonic development and evolution of the outflow tract, cardiac valves and myocardium in vertebrates.
- Morphology and morphogenesis of congenital anomalies of semilunar cardiac valves and coronary arteries in mammals.
- Etiology and fisiopathology of the bicuspid aortic valve.
- Etiology of the congenital anomalies of the coronary arteries.

SCIENTIFIC-TECHNICAL SERVICES

- Aquarium for marine and freshwater species.
- Management and maintenance of rodent strains.
- Laboratories equipped for necropsies and morphological studies (anatomy, histomorphology, optical and electron microscopy, injection-corrosion, immunohistochemistry) and molecular (DNA, RNA and protein extraction, PCR, WB, immunoprecipitation).
- Advice, training and research about the research topics.

RESEARCH GROUP LEADER: FRANCISCO DE BORJA FERNÁNDEZ CORUJO
PAI CODE: BIO203

CONTACT
PHONE: 952 137 371 | FAX: 952 131 668
E-MAIL: borgafe@uma.es
INTRODUCTION

A research group that is part of the University of Malaga, as well as the Network of Cell Therapy, (TerCel) and the CIBER of Bioengineering, Biometerials and Nanomedicine (Ciber-bbn) of the Carlos III Health Institute. It specialises in the study of skeletal regeneration in animal models and in therapeutic osteogenesis, searching for its applications within the area of Regenerative Medicine of skeleton tissue. The group carries out selection, expansion and condro-osteogenic differentiation methods of mesenchimatic stem cells, in addition to making new osteoconductor materials. The study of secretome of MSC for therapeutic purposes in human and veterinary medicine are also present. They also study neuregenerative mechanisms stem cells mediated using Hydrocephalus as a model.

RESEARCH TOPICS

- Cell therapy for skeletal regeneration.
- Osteogenic regeneration.
- Regeneration in vertebrates (zebrafish).
- Osteoinductor recombinant proteins.
- Biomaterials.
- Studies on the secretome from mesenchymal stem cells for therapeutic purposes.
- Stem cell therapy for the treatment of Hydrocephalus.

SCIENTIFIC-TECHNICAL SERVICES

- Cell therapy applied to skeletal reparation (bones, tendons, spinal fusions...).
- Production of recombinant growth factors with condro-osteogenic induction factors.
- Synthesis and processing of vitreous and vitroceramic materials for biomedical applications.
- Therapies based on the secretome of mesenchymal stem cells.
- Stem cell therapies for neuroregeneration.

RESEARCH GROUP LEADER: MANUEL CIFUENTES RUEDA
PAI CODE: BIO217

CONTACT
PHONE: 952 134 132 | FAX: 952132000
E-MAIL: mcifuentes@uma.es | WEB: https://www.uma.es/oferta-idi/info/4692/biologia-y-fisiologia-celular/
INTRODUCTION

A research group whose scientific activity is centred on themes related to Preventive medicine and Occupational Health. There are many health hazards connected with one's job, especially illnesses related to exposure to environmental factors present with one's workplace. The group mainly studies epidemiological control and security prevention and environmental hygiene in the workplace most particularly that developed in hospitals and health facilities.

RESEARCH TOPICS

- Quality of Life and Public Health.
- Nutritional Epidemiology.
- The molecular epidemiology of nosocomial infection.
- Toxicity bioassays for water control.
- Assessment of biocidal substances (antiseptics and disinfectants).
- Assessment of new sterilisation technologies.

SCIENTIFIC-TECHNICAL SERVICES

- Control of the biosafety of operating theatres and critical areas in hospitals and clinics.
- Advice on occupational hazard prevention.
- Advice on the quality and management of health centres.

RESEARCH GROUP LEADER: ALBERTO MARISCAL LARRUBIA
PAI CODE: BIO249

CONTACT
PHONE: 952 131 604 | FAX: 952137131
E-MAIL: mariscal@uma.es
ADDRESS: Dpto. Medicina Preventiva. Facultad de Medicina. Teatinos. 29071. Málaga
INTRODUCTION

The members of this research group are located at the Genetics Unit in the Department of Cell Biology, Genetics and Physiology of the School of Sciences of the University of Malaga. Most of this group researchers also belong to the Instituto de Hortofruticultura Subtropical y Mediterránea “La Mayora” (IHSM-UMA-CSIC). Its scientific activity is centred on the study of plant-pathogen interaction, mainly in the molecular genetics of plant-phytopathogenic bacteria and plant viruses.

RESEARCH TOPICS

- Genetics and epigenetics of geminivirus-plant interaction.
- Microbial genetics of the plant roots.
- Pseudomonas syringae-bean interaction. Pseudomonas savastanoi-olive tree interaction.
- Salmonella-plant interaction.
- Phenotypic variation of Pseudomonas syringae and Salmonella in plant.
- Genetic and biochemical analysis of the replication of repetitive DNA sequences.

SCIENTIFIC-TECHNICAL SERVICES

- Control and phytosanitary research strategies.
- Diagnosis of viruses and bacteria in plant species of agrofeeding interest.
- Detection of phytopathogenic viruses and bacteria.
- Development of bioinformatic tools for application in the proteomics and genomics of plants.

RESEARCH GROUP LEADER: ARACELI CASTILLO GARRIGA
PAI CODE: BIO264

CONTACT
PHONE: 952 134 271  |  FAX: 952132001
E-MAIL: ara@uma.es  |  WEB: https://www.uma.es/departamento-de-biologia-celular-genetica-y-fisiologia/info/73515/grupos-genetica/
INTRODUCTION

The members of this research group have more than 20 years of work with human and animal cell cultures, carrying out a complete repertoire for the screening and characterization of bioactive anticancer and anti(lympho)angiogenic compounds. In addition, the group integrates expertise in bioinformatics and computational analysis from diverse fields of interest with the capacity for genetic circuit design, metabolic engineering, and optimization through different directed evolution methodologies. This varied scientific activity allows the group to provide a wide range of services to the pharmaceutical industry and biotechnology and agri-food companies.

RESEARCH TOPICS

- Molecular study of cancer, angiogenesis, and metabolism.
- Bioinformatics and systems biology applied to rare diseases and prevalent diseases.
- Synthetic biology: basic and applied approaches to biotechnology.

SCIENTIFIC-TECHNICAL SERVICES

- Platform for bioinformatics and computational systems biology. Bioinformatic services in Biomedicine and Agrifood.
- Study of genetic and functional-omics data related to diseases, analysis of patient-phenotype data, prioritization of targets, as well as development of cancer biomarkers.
- Synthetic biology platform. Genetic and metabolic engineering studies and directed evolution methodologies.
INTRODUCTION

The research group Behavioural Neuroscience studies the functionality of the brain from the behavioural changes observed in human and animal experiments. The experiments with people consist in perception, attention and memory tasks through the study of brain activity recorded in evoked potentials. The experiments with animals (laboratory rats) consist in associative learning tasks, in which are exposed to a programmed stimuli (lights, sounds and flavours) to study the connecting process between stimuli of the animals.

RESEARCH TOPICS

- Learning and behaviour process in animals.
- Effects of stimulations of newborns on learning behaviours, emotional process and cognitive deterioration in the elderly.
- The use of evoked potentials for discrimination and memory experiments on human beings.

SCIENTIFIC-TECHNICAL SERVICES

- Investigation in animals about the effects on behavior, learning and memory, surgery, drugs or experiences that modify brain functions.
- Use of automated recording systems of animal behavior:
  - Skinner box
  - Smart system for filming and analysis of behavior.
- Training in difficult discrimination stimuli gustatory, olfactory, aural or visual.
- Analysis of brain activity via evoked potentials in humans.

RESEARCH GROUP LEADER: ALFREDO ESPINET RUBIO
PAI CODE: BIO303

CONTACT
PHONE: 952 132 980 | FAX: 952 131 332
E-MAIL: espinet@uma.es
ADDRESS: Dpto. Psicología Básica. Facultad de Psicología. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The Integrative Molecular Biology Lab research group has a multidisciplinary profile with lines focused on different biological problems: the study of cancer, nitrogen and sulphur metabolisms in plants or the study of methionine modifications as a regulator of protein activity. The group carries out biotechnology work using tools from biochemistry, molecular biology, and bioinformatics. Among the techniques handled by the research group we can highlight molecular cloning of genes, recombinant protein expression, enzyme activity measurements, protein phosphorylation studies, gene expression analysis (RT-qPCR), protein expression analysis (western blot) and omics analysis (e.g. transcriptomics).

RESEARCH TOPICS

- Protein evolution and post-translational modifications.
- Nitrogen and sulphur nutrition in plants.
- Cell signalling and cancer.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice for the realization of Biotechnological projects.
- Molecular cloning including recombinant protein expression and characterization.
- Gene expression analysis by conventional (RT-qPCR) and high throughput (RNA-seq and/or DRS) techniques.
- Culture and maintenance of cell lines.
- Functional assays in tumor cell lines.
- Gene editing by siRNA or CRISPR-Cas9.
- Proliferation and/or toxicity assays.
- Cell signaling pathway analysis.
- Immunodetection.

RESEARCH GROUP LEADER: RAFAEL CAÑAS PENDÓN
PAI CODE: BIO366

CONTACT
PHONE: 951 953 305
E-MAIL: racanas@uma.es | WEB: https://imb-lab.com/
ADDRESS: Facultad de Ciencias. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The skeletal biomedicine laboratory (SBL) unites several lines of research at the University of Malaga and IBIMA-Plataforma-Bionand related to the study of disease mechanisms and new therapeutic strategies for skeletal pathologies. Our research group uses a multidisciplinary strategy to study the most relevant bone pathologies in humans, from osteoporosis and osteoarthritis to rare diseases such as osteogenesis imperfecta. The therapeutic strategies under investigation at the SBL meet the premises of precision medicine and include the development of new drugs, biomaterials, secretomes/exosomes, repositioning of “orphan drugs” and gene therapy.

RESEARCH TOPICS

- Disease mechanisms and new therapeutic strategies for skeletal pathologies.
- Development of advanced therapies.
- Line of intelligent Biomaterials.
- Gene and Cell Therapy.
- Genetic editing line for animal modeling.
- Bone differentiation and metabolism.
- Repositioning of cellular anti-stress therapies.
- Functional diagnosis of rare skeletal diseases.
- Application of Artificial Intelligence to single cell expression analysis.
- Skeletal organoids.

SCIENTIFIC-TECHNICAL SERVICES

- Genetic counseling in skeletal dysplasias.
- Generation of intelligent Biomaterials and skeletal organoids.
- Generation of animal models in mice and zebrafish by CRISPR.
- Clinical functional studies of variants of uncertain significance.
- Application of Artificial Intelligence to single cell expression analysis Skeletal organoids.

RESEARCH GROUP LEADER: IVAN DURAN JIMENEZ
PAI CODE: BIO369

CONTACT
PHONE: 952 367 633
E-MAIL: ijduran@uma.es | WEB: https://duranlab.eu/
ADDRESS: E.T.S.I. Industriales. Campus de Teatinos, s/n. 29071- Málaga
HEALTH SCIENCE AND TECHNOLOGY

- PODIATRY AND HEALTH
- CLINICAL PHYSIOTHERAPY
- RESEARCH IN ASTHMA AND ALLERGY
- INFLAMMATORY RHEUMATIC DISEASES STUDY GROUP
- POSITIVE PERSONAL RESOURCES, HEALTH AND WELLBEING IN APPLIED CONTEXTS
- MATERNAL-FETAL MEDICINE, EPIGENETICS, WOMEN’S DISEASES AND REPRODUCTIVE HEALTH GROUP
- PHYSIOTHERAPY
- DATA ANALYSIS IN PSYCHOLOGY
- EXERCISE PHYSIOLOGY
- NERVOUS CONTROL OF RESPIRATION, CIRCULATION AND EMOTIONS.
- LIPIDS AND ARTERIOSCLEROSIS RESEARCH UNIT
- STUDY OF ENCEPHALIC RECEPTORS
- SKIN CANCER
- RADIOBIOLOGY
- ANATOMICAL PATHOLOGY (PATHOLOGY AND ONCOLOGY). MÁLAGA
- MOLECULAR BIOLOGY OF THE RENIN-ANGIOTENSIN SYSTEM
- G.I.E.M.S.A., VASCULAR AND HEMATIC BIOLOGY
- EXPERIMENTAL PSYCHOPHARMACOLOGY
- PHARMACOLOGY AND THERAPEUTICS.
- HUMAN ANATOMY AND EMBRYOLOGY
- LAPAROSCOPIC SURGERY
- PSYCHOMETRICS AND EPIDEMIOLOGY IN BEHAVIORAL SCIENCES AND HEALTH
- INTESTINAL ADAPTATION AND CLINICAL NUTRITION IN SURGERY
- BIOLOGY AND MEDICAL HISTOLOGY
- LANGUAGE, SPEECH AND VOICE EVALUATION AND INTERVENTION
- CARDIOVASCULAR DEVELOPMENT AND ANGIogenesis
- APPLIED PSYCHOBIOLOGY AND PSYCHOSOMATICs
- OTOTOLOGY, TECHNOLOGY AND QUALITY (OTOTECH)
- RESEARCHING IN SPORT SCIENCES
- EMOTION AND COGNITION
• MEMORYLAB MÁLAGA
• CLINIMETRICS IN PHYSIOTHERAPY
• EVALUATION OF EFFECTIVENESS, SAFETY AND ECONOMY OF MEDICINES
• ANTITHROMBOTIC RESEARCH, TISSUE ISCHEMIA AND NEUROPROTECTION
• EPIDEMIOLOGY AND MOLECULAR MECHANISMS OF INFLAMMATORY, AUTOIMMUNE AND HUMAN VASCULAR PATHOLOGIES
• “ANDALUSIAN PSYCHOSOCIAL RESEARCH GROUP "GAP"
• NEUROPHATOLOGY OF ALZHEIMER’S DISEASE
• CHRONICITY, DEPENDENCE, HEALTH CARE AND SERVICES
• MOLECULAR BIOLOGY OF PREVALENT DISEASES
• COGNITIVE NEUROSCIENCE: APHASIA AND RELATED DISORDERS
INTRODUCTION

The research group is from the Department of Nursing (Podiatry) of the Faculty of Health Sciences, although it is also made up of researchers from other Spanish universities. This research group studies the biomechanics and physical activity in terms of the foot and ankle of patients with rheumatic diseases, children and athletes to assess their impact on quality of life and to suggest conservative treatments at this level.

RESEARCH TOPICS

- Physical Activity and quality of life in Rheumatic Pathologies, Paediatric Foot and Athletes in terms of the foot and ankle impact.
- Health promotion intervention models in terms of the foot and ankle in patients with rheumatic diseases, children and athletes.
- Biomechanics and orthotist applied to rheumatic pathologies, Children’s feet and Athlete feet and physical activity.

SCIENTIFIC-TECHNICAL SERVICES

- To transfer of results from research on people with rheumatic diseases and paediatric patients (systematic reviews, guideline designs, etc).
- To design of patient reported outcome measures (PROMs) and their validation.
- To design and carry out clinical trials in people with rheumatic diseases and paediatric patients in terms of the foot and ankle.
- To implement health programs in patients with rheumatic diseases.
- To design orthotics devices for patients with rheumatic pathologies or children with pathologies in their feet.

RESEARCH GROUP LEADER: GABRIEL ANTONIO GIJON NOGUERON
PAI CODE: CTS1009

CONTACT
PHONE: 626 449 254
E-MAIL: gagijon@uma.es
ADDRESS: Facultad de Ciencias de la Salud. Ampliación Campus de Teatinos, n3. 29071- Málaga
INTRODUCTION

This is a multidisciplinary group comprised of different professionals: Physiotherapists, Psychologists, Anthropologists, with a solid clinical experience in both public and private systems. Likewise, most of them do research on pain science, with some outstanding publications having a great impact worldwide. We are part of the research group IBIMA-C13, which is focused on chronicity and health services. Throughout professionals that work both in public and private sector, we develop processes that address chronic MSK pain through pain education and exercise.

RESEARCH TOPICS

- Research on chronic musculoskeletal pain.
- Determination of factors (biological, psychological, cultural, social) which can predict the onset, maintenance and prognosis of musculoskeletal pain.
- Use of different methods of artificial intelligence to get a personalized medicine.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice on healthy life-styles in the managing of chronic/persistent pain to associations and groups of interest.
- Design of clinical trials in Physiotherapy.
- Training programmes for clinicians such as Physiotherapists, GPs, Nurses, Podiatrists, etc, who are interested in improving their skills in the management of chronic pain based and Exercise and Health Education.
- Advice in new and potential business opportunities in Health Sciences, specifically in Physiotherapy. We provide advice to attend sport events.

RESEARCH GROUP LEADER: ALEJANDRO LUQUE SUÁREZ
PAI CODE: CTS1017

CONTACT
PHONE: 951 952 853
E-MAIL: aluques@uma.es
ADDRESS: Facultad Ciencias de la Salud. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group of Allergy and Asthma falls between the Department of Medicine and Dermatology and the Department of Cellular Biology, Genetics, and Physiology. Its research facilities are located in the IBIMA laboratory of the Hospital Civil, one of the settings of the Málaga University Regional Hospital. Its research lines are focused on the elucidation of the mechanisms involved in the development of allergic reactions and on the improvement of the currently available diagnostic methods and treatments.

RESEARCH TOPICS

- Study of the mechanisms involved and improvement of the diagnostic methods and treatment options of drug hypersensitivity.
- Study of the mechanisms involved and improvement of the diagnostic methods and treatment options of food allergy.
- Study of the mechanisms involved and improvement of the diagnostic methods and treatment options of respiratory allergy.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice on cell cultures and flow cytometry.
- Cell phenotyping through flow cytometry.
- Characterisation of the immune response to biomolecules.
- Analysis of the cytokine production profile.
- Quantification of antibody- and/or cytokine-producing cells through ELISpot.

CONTACT

PHONE: 951 290 224 | FAX: 951 290 302
E-MAIL: mjt Torresj@uma.es | WEB: www.ibima.eu/grupo_investigacion/enfermedades-alergicas-farmacos-alergenos/
ADDRESS: Dpto. Medicina y Dermatología. Facultad de Medicina. Teatinos. 29071. Málaga
INTRODUCTION

This research group is specialized in the study of inflammatory rheumatic diseases, such as Rheumatoid arthritis, spondyloarthritis, Systemic lupus erythematosus, Sjögren syndrome, Systemic sclerosis, Myopathies and vasculitis. The group members are researches from the University of Málaga, Regional University Hospital of Málaga and Virgen de la Victoria University Hospital in Málaga (Andalusian Public Health System).

RESEARCH TOPICS

- Immune-mediated inflammatory diseases.
- Cardiovascular risk in autoimmune inflammatory diseases.
- Microbiota in autoimmune inflammatory diseases.
- Nursing care in rheumatic diseases.

SCIENTIFIC-TECHNICAL SERVICES

- Determination of biomarkers in immune-mediated inflammatory diseases.
- Self-care support interventions in patients with rheumatic diseases and health education programs for self-administration of biological therapy.
- Counseling on immune-mediated inflammatory diseases.
- Studies on IMIDs, cardiovascular risk, microbiota and nursing care in these patients.

RESEARCH GROUP LEADER: ANTONIO FERNÁNDEZ NEBRO
PAI CODE: CTS1034

CONTACT
PHONE: 951 290 360 | FAX: 951 290 360
E-MAIL: afernandezn@uma.es
ADDRESS: Facultad de Medicina. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group focuses its interest on the study of personal resources that may be relevant in the prediction of indicators of psychological health and well-being. In recent years, several studies have been conducted with different groups at psychosocial risk such as multi-occupational samples, adolescents, people in situations of unemployment or old age. Among the psychological resources that have received most attention are: Emotional Intelligence, self-core evaluations, psychological strengths such as forgiveness and gratitude.

RESEARCH TOPICS

- Positive Organizational Psychology: positive resources for the improvement of personal and labor welfare indicators.
- Positive Psychology oriented to the prevention and reduction of bullying and cyberbullying behavior in adolescence.
- Emotional Intelligence, psychological strengths and quality of life associated with health in work, social and educational contexts.
- Adaptation and validation of instruments for evaluation of positive personal resources.
- Protective factors and emotional coping strategies against variables of psychological maladjustment.
- Technologies’ addictions: Assessment, prevention and intervention through positive personal resources.

SCIENTIFIC-TECHNICAL SERVICES

- Prevention of bullying and cyberbullying from positive psychology (emotional intelligence, forgiveness, positive coping, etc.)
- Promotion of personal and work well-being through intervention programs on "burnout" and teacher stress.
- Development of positive personal resources to improve health and well-being.
- Assessment and profiles of technologies’ addictions: internet, smartphones, social networks and videogames.

RESEARCH GROUP LEADER: LOURDES REY PEÑA
PAI CODE: CTS1048

CONTACT
PHONE: 696 691 041 | FAX: 952131101
E-MAIL: lrey@uma.es | WEB: http://www.appliedpositivelab.com
ADDRESS: Departamento de Personalidad, Evaluación y Tratamiento Psicológico de la Facultad de Psicología. Campus de Teatinos s/n. 29071 Málaga
INTRODUCTION

The research group on Maternal-Fetal Medicine, Epigenetics, Women's Diseases and Reproductive Health brings together a multidisciplinary group of highly experienced clinical researchers. The group is focused on the diagnosis and treatment of the female genital tract diseases, under the biopsychosocial paradigm, studying all the determining factors of women's health. Also, the group focuses on the prevention, diagnosis and treatment of all the obstetric conditions, analyzing their short- and long-term effects on the health status of their children.

RESEARCH TOPICS

- Perinatal exposures and fetal neuropsychological development.
- Prevention of prematurity.
- Prognostic markers of fetal neurodevelopment.
- Perinatal mental health.
- Genital cancer.
- Endometriosis.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice in the management of gynecological pathology.
- Prevention and treatment of genital cancer.
- Research in perinatal mental health.
- Training in perinatal medicine.
- Training in obstetric emergencies.
INTRODUCTION

The "Physiotherapy" research group of the Faculty of Health Sciences investigates in the area of health and well-being in the most diverse conditions. We have functional laboratories and Teaching-Care units on Physiotherapy and Occupational Therapy. Research lines include the use of new technologies in health care and in the training of health professionals. Likewise, projects related to the implementation of multimodal intervention programs based on techniques and methods of physiotherapy and occupational therapy are addressed. The research group directs a large part of its activities towards innovation and disruptive technologies in training processes in health sciences and clinical interventions.

RESEARCH TOPICS

- Projects related to Physiotherapy, Occupational Therapy and their clinical implementation in health and well-being processes.
- Clinical studies on multimodal interventions in people with the most diverse conditions that include pathologies: cardiorespiratory, neurological, vestibular, pediatric, pelvic floor, orthopedic, traumatological, mental, lymphology and geriatric, among others.
- Clinical studies based on applications with electrotherapy and phototherapy to improve health and quality of life in various pathological processes.
- Solutions based on the use of new technologies in clinical practice and teaching in Health Sciences (artificial intelligence, virtual reality, digital practice).

SCIENTIFIC-TECHNICAL SERVICES

- Scientific-technical advice in Physiotherapy and Occupational Therapy in comprehensive rehabilitation processes in pediatrics and adults.
- Scientific-technical advice on procedures with electrotherapy, magnetotherapy and phototherapy in various conditions. Advice related to work incapacity.
- Training and innovation in health sciences teaching.

RESEARCH GROUP LEADER: ROCÍO MARTÍN VALERO
PAI CODE: CTS1071

CONTACT
PHONE: 951 952 858
E-MAIL: rovalemas@uma.es
ADDRESS: Departamento de Fisioterapia. Facultad Ciencias de la Salud. C/ Arquitecto Francisco Peñalosa 3, Ampliación Campus de Teatinos, 29071- Málaga
DATA ANALYSIS IN PSYCHOLOGY

INTRODUCTION

This research group was founded in 1995. The 5 members are specialists in data analysis. One of the main lines of research is the study of the robustness of statistical procedures using Monte Carlo simulation as well as the study of the psychometric properties of psychological tests. Likewise, research is focused on stress in childhood and adolescence and in other special populations, such as people diagnosed with breast cancer or caregivers of people with dementia. Finally, research is also focused on variables linked to positive psychology, such as strengths of character, optimism and flourishing.

RESEARCH TOPICS

- Robustness of statistical procedures. Monte Carlo Simulation.
- Stress in childhood and adolescence.
- Stress and fight in breast cancer.
- Psychological variables associated with character strengths.
- Construction and adaptation of psychometric tests.
- Profile and habit of use of communication technologies.

SCIENTIFIC-TECHNICAL SERVICES

- Training courses in statistical data analysis.
- Development and adaptation of psychological test.
- Experimental design and data analysis.

RESEARCH GROUP LEADER: MARÍA JOSÉ BLANCA MENA
PAI CODE: CTS110

CONTACT
PHONE: 952 131 088 | FAX: 952 132 621
E-MAIL: blamen@uma.es
ADDRESS: Dpto. Psicobiología y Metodología de las Ciencias del Comportamiento. Facultad de Psicología. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group located at the Department of Human Physiology and Education Physical Sports of the Faculty of Medicine, its accounts with a laboratory of functional tests. At present, this team wants to create a Unit Teaching-Care on Sports Medicine; in this way students can improve their knowledge through active learning, so they can may respond to a higher number of patients.

RESEARCH TOPICS

- Neuroendocrine control during exercise.
- Cardiorespiratory adaptation during the implementation of an activity.
- Cineantropometric study of different groups of athletes.
- Aerobic exercise until exhaustion, analyzing fatigue area.

SCIENTIFIC-TECHNICAL SERVICES

- Laboratory of functional test.
- Studies of sport medical (in the university community and the general population).
- Studies of sport medicine.
- Health care in sporting events.
- Health care to sports clubs.

RESEARCH GROUP LEADER: JOSÉ RAMÓN ALVERO CRUZ
PAI CODE: CTS132

CONTACT
PHONE: 952 137 599 | FAX: 952 137 283
E-MAIL: alvero@uma.es
ADDRESS: Dpto. Fisiología Humana y Educación Físico Deportiva. Facultad de Medicina. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group located at the Faculty of Medicine of the University of Malaga investigates the area of neuroscience and their clinical applications. One of his central themes of research includes cognitive neuroscience, understanding cognitive decline that occurs with aging. These scientific contributions are developed to be directly applicable to the clinical sector.

RESEARCH TOPICS

- Central regulation of cardiorespiratory arrest.
- Emotional responses.
- Neuropeptides involved in emotional and autonomic functions.
- Cognitive functions in adult subjects and the elderly.

SCIENTIFIC-TECHNICAL SERVICES

- Study of interaction of neurotransmitters and neuropeptides involved in emotional responses.
- Administration of growth factors in aging by their neuroprotective and hepatoprotective effects.
- Analysis of cognitive functions and behavioural deterioration in neurodegenerative diseases in the elderly.
- Study of brain regions involved in regulating central cardiorespiratory in various stress situations.

RESEARCH GROUP LEADER: JOSÉ ÁNGEL NARVÁEZ BUENO
PAI CODE: CTS156

CONTACT
PHONE: 952 131 646  |  FAX: 952 131 650
E-MAIL: jnarvaez@uma.es
INTRODUCTION

A research group of the department of Medicine and Dermatology of (Medicine Area) and with facilities in the CIMES (Centre of Healthcare Research) of the University of Malaga. Its research lines concentrate on the study and analysis of the characteristics of dyslipemias in general, and more specifically of hypertriglyceridemias, as well as the detection of asymptomatic arteriosclerosis.

RESEARCH TOPICS

- Vascular and cardiovascular risk factors.
- Genetics of dyslipemias. Diabetic dyslipemia.
- Inflammatory factors, adipocytokins and oxidative stress in cardiovascular pathologies.
- Analysis of molecular image in the study of cardiovascular illnesses.

SCIENTIFIC-TECHNICAL SERVICES

- Chromatographic separation of proteins, HPLC.
- Determination of lipoproteins, apoproteins and adipocytokins.
- Determination of lipoproteinkinase and hepatic lipase activity.
- PCR in real time.
- In collaboration with the Molecular Image Unit of the CIMES, very high-grade resonance and Positron Emission Tomography (PET).

RESEARCH GROUP LEADER: PEDRO VALDIVIELSO FELICES
PAI CODE: CTS159

CONTACT
PHONE: 952 131 615 | FAX: 952 131 511
E-MAIL: valdivielso@uma.es
INTRODUCTION

A research group of the department of Cell Biology, Genetics and Physiology (Cell Biology Area), specialising in the study of the encephalic receptors in neuronal communication neuronal, with particular emphasis placed on dopamine receptors. They also have research lines related to the neurodegenerative processes involved in aging and in Alzheimer’s disease.

RESEARCH TOPICS

- Study of the cell and molecular mechanisms of opiate addiction. Interaction between dopaminergic receptors and opioid receptors in morphine addiction.
- Characterisation of the functional role of D4 dopaminergic receptors in neuronal communication via volume transmission.

SCIENTIFIC-TECHNICAL SERVICES

- Cell and molecular techniques for locating molecules in animal tissues: in situ hybridisation, immunohistochemistry, union to ligands and autoradiography.
- Functional characterisation of opiate drugs.
- Validation of drugs in transgenic animal models of Alzheimer’s disease.
- Neuropathological diagnosis in animal models of neurodegenerative diseases.

RESEARCH GROUP LEADER: ALICIA RIVERA RAMÍREZ
PAI CODE: CTS161

CONTACT
PHONE: 952 131 963  |  FAX: 952 132 000
E-MAIL: arivera@uma.es
INTRODUCTION

This research group located within the Department of Medicine and Dermatology consists of 8 scientists. They are specialized in the analysis of the different types of skin cancer. For the study of photocarcinogenesis the research group disposes of a photobiology laboratory in the Medical Research Center (CIMES) at the University of Malaga. Their research topics are focused on the effect of antioxidants and photoprotectors and as well on the study of skin diseases such as psoriasis and biological treatment methods.

RESEARCH TOPICS

- Photocarcinogenesis.
- Clinical, pathological and biomolecular prognostic factors in epithelial skin cancer.
- Sentinel lymph node and melanoma.
- Squamous cell carcinoma.
- New therapeutic means.
- Photoprotectors and antioxidants.

SCIENTIFIC-TECHNICAL SERVICES

- Dermatological consultation.
- Biological therapy of psoriasis.
- Efficacy assessment of new antioxidant and photoprotector molecules.
- Calibration of tanning booths.

RESEARCH GROUP LEADER: ENRIQUE HERRERA CEBALLOS
PAI CODE: CTS162

CONTACT
PHONE: 952 131 512/557 | FAX: 952 131 512
E-MAIL: eherrera@uma.es
ADDRESS: Dpto. Medicina y Dermatología. Facultad de Medicina. Campus de Teatinos, s/n. 29071-Málaga
INTRODUCTION

The “Radiobiology” research group of University of Malaga has a laboratory equipped to carry out studies in cell culture and molecular biology techniques. It is also authorized for the confined use of GMOs.

RESEARCH TOPICS

- Predictor factors and modifying agents in the antineoplastic treatment response.
- Effects of electromagnetic fields.
- Molecular radiobiology.
- Cellular aging.
- Biological and environmental dosimetry.
- Molecular markers.
- Radiation and BioArchitecture.

SCIENTIFIC-TECHNICAL SERVICES

- Measurements of environmental electromagnetic radiation. Electromagnetic dosimetry of low frequency and mobile telephony in urban environments.
- Study of electromagnetic field effects on biological systems.
- Study of the effects of ionizing radiation.
- Biological evaluation of the efficacy of photoprotectors and screens against ultraviolet radiation.
- Evaluation of the efficacy of radiosensitizers and radioprotectors.
- Maintenance and criopreservation of cell lines. Drug resistant cell lines.
- Control and in vitro evaluation of the cytotoxic effect of antineoplastic drugs and chemical agents. Clonogenic assay, drop test, growth, neutral red, etc. Evaluation of DNA damage.
- In vitro evaluation of the effect of molecules and drugs on cellular aging.
- Search for molecular markers of drug resistance, radiation and cell aging.
- In Silico studies from proteomic data, applied to biotechnology and biomedicine.
INTRODUCTION

The research group Anatomical Pathology (Pathology and Oncology) Malaga, is formed of pathologists, oncologists and a molecular biologists. The group also has the collaboration and support from various technicians in anatomical pathology. This research group has extensive experience in the oncology field and has been working jointly in coordination with Hospital Universitario Virgen de la Victoria of Málaga.

RESEARCH TOPICS

- Study of prognostic and predictive factors in Oncopathology.
- Tissue Bank of neoplastic tissues.
- The study of etiological factors.
- Identification of the neoplastic transformation phenotype.
- Establishment of malignancy rates.
- Evaluation and therapeutic monitoring in neoplasia.

SCIENTIFIC-TECHNICAL SERVICES

- Advice on oncologic processes:
  - Assistance.
  - Clinical and translational research.
  - Teaching.
- Clinical trials on various cancer-related treatments.

CONTACT

PHONE: 952 131 518  |  FAX: 952 137 220
E-MAIL: vicioso@uma.es
ADDRESS: Dpto. Histología y Anatomía Patológica. Facultad de Medicina. Campus Teatinos, s/n. 29071-Málaga
MOLECULAR BIOLOGY OF THE RENIN-ANGIOTENSIN SYSTEM

INTRODUCTION

The research group Molecular Biology of the Renin-Angiotensin System of the Department of Biochemistry, Molecular Biology and Organic Chemistry consists of 11 members from the field of health sciences. The background of the research staff varies from physicians, gynaecologists, biochemists and pharmacologists. Academic focus is set on the study of folic acids (folates) in the context of reproduction and nutrition. Folates are molecules essential to fertility and human fecundation. They play an important role on the way from correct generation of gametes to embryonic development. The quality of the research and an extensive curriculum enabled the group to collaborate with various medical centers specializing in human reproduction.

RESEARCH TOPICS

- Renin-angiotensin systems. Cardiovascular disease with infarction and high blood pressure.

SCIENTIFIC-TECHNICAL SERVICES

- Human fertility diagnostics: Research on the relationship between folic acid and human fertility in the context of genetics and nutrition.
- Pharmacogenetics of arterial hypertension.
- Advice for a personalized treatment.

RESEARCH GROUP LEADER: ARMANDO REYES ENGEL
PAI CODE: CTS188

CONTACT
PHONE: 952 131 531 | FAX: 952 131 534
E-MAIL: engel@uma.es
ADDRESS: Dpto. Bioquímica, Biología Molecular y Química Orgánica. Facultad de Medicina. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The International Group of Interdisciplinary Studies about Autotransfusion (G.I.E.M.S.A.), Vascular and Hematic Biology of the School of Medicine, University of Malaga, is specialized in the analysis of various blood conservation techniques and in the management of perioperative anemia. The group consists of 6 scientists with different medical backgrounds, e.g. anaesthetists or orthopedic surgeons. The most recent research project was the realization of a clinical study about an intravenous iron therapy with the aim to prove the efficiency and the benefits, not only for the patient, but also for their management by the medical staff.

RESEARCH TOPICS

- Cellular and humoral mediators in surgical immunosupression.
- Autotransfusion in cardiac and orthopedic surgery.
- Perioperative anemia: causes and diagnosis.
- Erythropoietin in surgery: Hematological and immunological effects.
- Intravenous iron: Compounds and indications.

SCIENTIFIC-TECHNICAL SERVICES

- Clinical and base studies:
  - Autotransfusion in cardiac and orthopedic surgery.
  - Perioperative anemia.
  - Erythropoietin in surgery.
  - Intravenous iron.
- Advisor for design, indication and evaluation of blood reinfusion.
- Edition of text books about alternative to allogeneic transfusion.
- Organization of specialist seminars and courses.
INTRODUCTION

The research group Experimental psychopharmacology, Department of Psychobiology and Methodology of Behavioral Sciences in the Faculty of Psychology has an extensive investigation curriculum in the scope of the biological bases of conduct and psychopharmacology. The team’s researchers make experimental studies of sleep disorder, aggression and drugs in animal models; in order to determine the effects of the administered drugs. As a result, their work could be of interest to laboratories and pharmaceutical companies that may want to know the effects of medicines and mood-altering drugs that modify the conduct of the patients.

RESEARCH TOPICS

- Psychopharmacology of aggression and violence.
- Psychopharmacology GHBergic system.
- Psychopharmacology of sleep.
- Psychopharmacology of anxiety.

SCIENTIFIC-TECHNICAL SERVICES

- Experimental psychopharmacology in animal models.
- Sleep studies on animal models.
- Drug toxicity study in animal models.
- Organization of psychopharmacology courses.

RESEARCH GROUP LEADER: JOSE FRANCISCO NAVARRO HUMANES
PAI CODE: CTS195

CONTACT
PHONE: 952 132 501 | FAX: 952 132 621
E-MAIL: navahuma@uma.es
ADDRESS: Dpto. Psicobiología y Metodología de las Ciencias del Comportamiento. Facultad de Psicología. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

A research group of the department of Pharmacology and Clinical Therapeutics of the University of Malaga. Its most notable lines of research include the assessment of antiaggregant and antioxidant drugs, new pharmacotherapeutic ideas, and studies on drug control.

RESEARCH TOPICS

- Receptors characterization of by means of radioligands in animal and human tissues.
- Assessment of therapeutic groups.
- Hepatic metabolisation of medicines.
- Pharmacology of thrombosis and tissue ischemia.
- Drug control.
- Pharmaeconomics.

SCIENTIFIC-TECHNICAL SERVICES

- Assessment of medicines and drugs.
- Scientific and technical advice on pharmacology and pharmacoepidemiology.
- Technical advice and intervention in the Ethical Committee of Clinical Trials of hospitals and health centres.
- Studies of hepatopathies associated to medicines.

RESEARCH GROUP LEADER: INMACULADA BELLIDO ESTEVEZ
PAI CODE: CTS232

CONTACT
PHONE: 952 131 566 | FAX: 952 131 568
E-MAIL: ibellido@uma.es
ADDRESS: Dpto. Farmacología y Terapeútica. Facultad de Medicina. Teatinos. 29071. Málaga
INTRODUCTION

The research group Human Anatomy and Embryology of the Faculty of Medicine has a complete equipment that can be of interest for different companies in the field of health-care. Highlighted amongst the possible works to be done is the assistance offered and the research done on the development and placing of prosthesis, this is due to their knowledge of anatomy and the provision of corpses and human bones they have.

RESEARCH TOPICS

- Intoxication of the central nervous system (CNS) and peripheral (PNS), through aluminium and other toxics.
- Study of the central nervous system by means of image techniques.
- Enteric nervous system in various experimental forms.
- Prosencephalon development.
- Anatomical study for ways of surgical approach.

SCIENTIFIC-TECHNICAL SERVICES

- Toxic study and diagnostics of the central nervous system and peripheral.
- Advice on hybridization in situ, immunocytochemistry and cell cultures of tissues containing CNS in mice.
- Anatomical study of the ways of surgical approach.
- Specific laboratory team for diagnostics histochemistry.
- Equipment for the placing and fixing of corpses.
- Team for the plastination of human body parts.
- Assistance given on the placement and development of prostheses through the use of corpses and human bones.
- Specific training in the area of human anatomy and embryology intended for:
  - Doctors.
  - Orthopedic surgeons.
  - Training companies dedicated to health workers.

RESEARCH GROUP LEADER: ISABEL DE DIEGO BARBADO
PAI CODE: CTS241

CONTACT
PHONE: 952 137 502   |   FAX: 952 131 509
E-MAIL: iddiego@uma.es
ADDRESS: Dpto. Anatomía y Medicina Legal. Facultad de Medicina. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group Laparoscopic surgery has an extensive research curriculum in the field of robotic surgery and have pioneered the study and application of laparoscopic surgery in Spain. Highlighted amongst their work is the collaboration with the Department of Systems Engineering and Automation at University of Malaga, which has led them to entirely develop, design and manufacture the first robotic assistant in laparoscopic surgery in Spain. Thanks to this robotic assistant, patients' recovery time is much less and not to mention that the operations have been reduced to between 10 and 15 minutes; resulting in less stress and fatigue for the surgeon during surgery.

RESEARCH TOPICS

- Laparoscopic surgery.
- Inguinal hernia.
- Robotic surgery.
- Laparoscopic solid organ surgery.

SCIENTIFIC-TECHNICAL SERVICES

- Consultanship on laparoscopic surgery.
- Analysis and study of microbial infections in urinary tract surgery.
- Medical advice given in the design in surgical robot assistants.
- Clinical trials in laparoscopic surgery and robotic surgery.
- Technology assessment of robotic assistants for laparoscopic surgery.

RESEARCH GROUP LEADER: CARLOS VARA THORBECK
PAI CODE: CTS249

CONTACT
PHONE: 952 131 619  |  FAX: 952 132 678
E-MAIL: cvara@uma.es
ADDRESS: Dpto. Cirugía, Obstetricia y Ginecología. Facultad de Medicina. Campus Teatinos, s/n. 29071-Málaga
PSYCHOMETRICS AND EPIDEMIOLOGY
IN BEHAVIORAL SCIENCES AND
HEALTH

INTRODUCTION

The research group Psychometrics and Epidemiology in Behavioral Sciences and Health was founded in 1995. Their researchers are experienced in research and teaching in the fields of Statistics and Multivariate Analysis applied to Psychological Measurement. Published work to date included the study of psychometric properties related to the development and/or adaptation of different types of assessment and diagnostic measurement instruments (Eating Disorder Questionnaires, Criterion Referenced Tests of Academic Performance and Clinical diagnosis, etc.).

RESEARCH TOPICS

- Definition and demonstration of new measures of goodness-fit in psychometric models:
  - Multidimensional Scaling.
  - Non Parametric Item Response Theory.
  - Inter-rater reliability.
  - Diagnostic Efficiency in a Tricotomic Classification.
- Application of Psychometric Models and Multivariate Analysis in the development and/or adaptation of assessment/diagnostic instruments.
- Development of new tests from the approximation of Criterion Referenced Tests.
- Application of Epidemiology designs and indices to determine disorder rates and risk factors.
- Assessment and Intervention in Clinical Psychology and Health.

SCIENTIFIC-TECHNICAL SERVICES

- Collaboration in the development and validation of tests, questionnaires and other measurement tools in:
  - Health centers.
  - Schools.
  - Companies specializing in design of questionnaires.

RESEARCH GROUP LEADER: MARÍA TERESA RIVAS MOYA
PAI CODE: CTS278

CONTACT
PHONE: 952 131 090 | FAX: 952 132 621
E-MAIL: moya@uma.es
ADDRESS: Dpto. Psicobiología y Metodología de las Ciencias del Comportamiento. Facultad de Psicología. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group Intestinal Adaptation and Clinical Nutrition in Surgery of the Department of Surgery, Midwifery and Gynaecology, Faculty of Medicine, is specialized in postoperative clinical nutrition and adaptation of the intestinal tract in order to improve the quality of life of the patients; the group has a strong experience in research and teaching. A specialty of the group is laparoscopic surgery in the context of obesity (Laparoscopic surgery is a novel technique of minimal invasive surgery, which allows to avoid large incisions resulting in less postoperative pain and shorter convalescence.). Thus, this kind of surgeries coupled with a technique called one-anastomosis gastric bypass (BAGUA) are applied to reductions of the stomach and the intestines helping patients to achieve a weight loss of up to 80%.

RESEARCH TOPICS

- Intestinal adaptation and clinical nutrition in surgery.
- Postoperative immunosupression and clinical nutrition.
- Cost effectiveness through the application of laparoscopy in abdominal repairs.
- Obesity surgery.
- Endosurgery personal training simulator (SEPEC) for educating the skills in laparoscopic surgery with medical students.

SCIENTIFIC-TECHNICAL SERVICES

- Obesity surgery through laparoscopy (one-anastomosis gastric bypass (BAGUA)).
- Research about physiopathological consequences of general and particularly intestinal obesity surgery.
- Organization of seminars and congresses on obesity surgery.
- Basic laparoscopic skills training and single incisional laparoscopic surgery (SILS) training. Obesity surgery through laparoscopy (one-anastomosis gastric bypass (BAGUA)).
INTRODUCTION

The research group Biology and Medical Histology, of the Department of Histology and Anatomical Pathology, Faculty of Medicine, consists of 11 members, which are specialized in the study and analysis of intraocular changes occurring with glaucoma or intraocular pressure. In order to achieve more consistent research data, the scientists created an experimental model capable of causing intraocular pressure in laboratory rats, and generate a glaucomatous optic neuropathy similar to the one in humans. Thus, the principal objective of this group is to develop a drug providing optimal properties in order to reduce occurrence of glaucoma or ocular hypertension, which in return is beneficial for the organism. The extensive experience of more than 20 years of investigation (the group was founded in 1988) in this field earned the group a strong curriculum in research and teaching. Furthermore, the quality of the academic work allowed for important cooperations and collaborations with various medical centers in Andalusia, specialized in ophthalmology.

RESEARCH TOPICS

- Study the mechanisms of action, involved in conjunction with elevated intraocular pressure, in the typical processes of neuron degeneration in glaucomatous optic neuropathy.
- Study the application of treatments with ocular pressure-lowering drugs having a vascular and neuroprotective action to prevent neurodegenerative factors generated in the glaucomatous neuropathy.

SCIENTIFIC-TECHNICAL SERVICES

- Experimental animal model recreating conditions similar to human glaucoma.
- Experiments with ocular hypotensive drugs and possible neuroprotective effects.
INTRODUCTION

The research group Language, speech and voice evaluation and intervention examines the language learning mechanisms and language use (oral and written), speech and voice, their difficulties and disorders. This team emphasizes an interdisciplinary approach, combining psycholinguistic, neuropsychological and otolaryngologic aspects of these problems. The 10 researchers who make up this group collaborate with the University of Granada, University of Seville, Université Libre de Bruxelles (Free University of Brussels), University of Manchester, the Neuroscience Centre of Cuba, University of Murcia, University of La Laguna, Laboratoire Psychologie de la Perception de Centre National de la Recherche Scientifique (Psychology of Perception Laboratory of National Center for Scientific Research) of France and Andalusian Health Service. Their research may be of interest to companies specializing in the study of voice disorders, linguistic process as in language disorders.

RESEARCH TOPICS

- Multicultural bilingual reading and writing learning.
- Learning difficulties evaluation and treatment in reading.
- Origin and development of dyslexia during the life cycle: from early childhood through adulthood.
- Medical-psychological assessment and treatment of speech and language difficulties in children.
- Medical-psychological assessment and treatment in patients with brain damage.

SCIENTIFIC-TECHNICAL SERVICES

- Guidance on how to improve the diagnosis of dyslexia.
- Diagnosis and treatment of dementias.
- Advice given on linguistic processes.
- Assessment and treatment of voice problems.
- Research on language disorders.
- Training on the control and use of language and voice for professionals.
INTRODUCTION

The research group Cardiovascular Development and Angiogenesis has an extensive background in the research of cardiovascular development. Often its works are cited as reference in the development of coronary arteries and epicardium, and as well in the application of immunohistochemistry methods and gene expressions during embryonic development. The 9 members of the research staff are in close collaboration with other national and international research groups, among their collaborations use an in vivo model of angiogenesis to evaluate various compounds with possible modulation of angiogenic factor. The group is part of the Red de Terapia Celular (TERCEL) (http://www.red-tercel.com/) and of the Red de Enfermedades Cardiovasculares (RECAVA) (http://recava.com).

RESEARCH TOPICS

- Study of embryonic epithelial-mesenchymal transitions.
- Vasculogenesis.
- Angiogenesis.
- Cardiovascular development.
- Embryological cardiovascular development.
- Mechanisms of peritoneal regeneration.

SCIENTIFIC-TECHNICAL SERVICES

- Immunohistochemical techniques.
- Studies about angiogenesis.
- Advice about:
  - Angiogenesis.
  - Gene expression.
  - Detection of markers.
INTRODUCTION

The research group "Applied Psychobiology and Psychosomatics" is composed of four researchers from different fields such as Psychology, Biology, and Medicine. Its main laboratory is based in the Faculty of Psychology, in which the majority of its members carry out their work. The main objective of these researchers is to study the impact that behavior can exert on biological parameters and psychological measures of clinical interest. In particular, this group is focused on the analysis of the inherent psychobiological benefits derived from the practice of different eastern psychosomatic techniques such as meditation, qigong, and yoga, amongst others. This group also studies the application of these ancient holistic systems to different population groups, both for their effectiveness as preventive medicine and for the potentiality they have in the enhancement of the quality of life of people as well as the professional performance of workers.

RESEARCH TOPICS

- Psychobiology of meditation and related psychosomatic disciplines
- Behavioral Medicine

SCIENTIFIC-TECHNICAL SERVICES

- Guidance and advice on Psychobiology of health and Behavioral Medicine: coping with stress, psychosomatic disorders, healthy diet and habits, sleep hygiene, physical activity, working hours and alterations of biorhythms, etc.
- Advice and/or specific training in eastern psychosomatic techniques (meditation, qigong, yoga, etc) to: - Public administrations to improve people's quality of life and the prevention of illnesses. - Companies concerned about the health and stress of their workers. -Hospitals. -Gymnasiums and sports centers. -Training Centers that would like to learn about the various techniques.
- Psychobiological research and validation of the clinical efficacy of psychosomatic and behavioral medicine techniques, as well as procedures of complementary and alternative medicine.
INTRODUCTION

The research group Otology, technology and quality (Ototech) of the Department of Radiology and Physical Medicine of the Faculty of Medicine, University of Malaga focuses its academic work on the study of improving the auditive capabilities through external implantation of prosthesis in humans and animals. The interdisciplinary group consists of 15 researchers from such different backgrounds like medicine, physics, engineering and logopedics; all members have strong experience in research and teaching. The laboratories of this research group are equipped with high technology in the field of otology. They are located in the Parque Tecnológico de Andalucía (PTA).

RESEARCH TOPICS

- Development of implantable audio prosthesis.
- Evaluation of the effectiveness and the security of the patient undergoing treatment for hearing restoration.

SCIENTIFIC-TECHNICAL SERVICES

- Evaluation of the medical equipment used for hearing restoration.
- Evaluation of the toxicity of ear medication.
- Advice for design and evaluation of auditory implants.
- Clinical studies about human otology.
INTRODUCTION

The research group "Researching in Sport Sciences" of the Department of Didactics of Language, Arts and Sports of the Faculty of Education Science investigates the problems of obesity and overweight in childhood and its relation to sedentarism and physical activity. The multidisciplinary group was founded in the year 2000 and consists of 12 researchers, namely nutritionists, educationalists, physicians and graduate students from Sports and Physical education sciences. In addition, the group members have proven experience in collaborations and contracts with companies.

RESEARCH TOPICS

- Studies about the body structure and its relation to physical activity.
- Childhood obesity.
- Physical condition vs Health in all age groups.

SCIENTIFIC-TECHNICAL SERVICES

- Analysis of the body structure and the physical condition of the study subjects.
- Advice about the improvement of health and the physical condition.
- Advice about adequate age related activities, physical condition and health (personalised training).
- Systems for the improvement of visual perception through training panels for goals.
- Educational programs for the training in sports and physical condition.
INTRODUCTION

This research group focuses on the research and use of individuals’ sentimental and emotional processes and the relationship found between intelligence and the variables that intervene in the emotional well-being of citizens. Among their collaborations it is the organization of different training courses in relation to professional burnout, mainstreaming, leadership, etc that stand out.

RESEARCH TOPICS

- Assessment of emotional intelligence with (TMMS) self-reports measures and the implementation (MSCEIT).
- Education of emotional intelligence.
- Prevention of violence, personal behaviours and social misfits.
- The influence of emotional intelligence on health and personal well-being.

SCIENTIFIC-TECHNICAL SERVICES

- Assessment of social and emotional skills (emotional intelligence) in organizations.
- Training on social and emotional skills (emotional intelligence) for different groups: Hospitals. Schools. Companies.
- Measures for the prevention of violence and psychosocial maladjustment in schools through the education of emotional intelligence.
- Analysis of drug use in adolescents.
INTRODUCTION

This group is focused on cognitive functions are processed in the brain and what leads to dysfunction of this process in aging and in neurological (schizophrenia, bipolar disorder, autism) and degenerative diseases (Alzheimer, Parkinson’s and Huntington). This is a multidisciplinary team made up of neurologists, biologists, biochemists, pharmacologists and psychologists, and also has a strong international collaboration with various groups located in the United States of America, United Kingdom, Germany, France, Italy, Japan and New Zealand. In last five years, this group has acquired several patents and has gained experience in collaboration with multinational pharmaceutical industries.

RESEARCH TOPICS

- Their basic research work’s line is dedicated to understand the mechanism of cognition and memory in brain and to identify the defects that account for memory loss observed in aging population and in patients with neurological and neurodegenerative disease.
- The translational research line is directed to identify biomolecules that are associated with memory functions and to further test the potential therapeutic application of these molecules as drugs against memory loss or memory dysfunction.

SCIENTIFIC-TECHNICAL SERVICES

- Research project, planning and development, across multiple disciplines, including biology and medicine.
- Exploration and study of the effect of molecules, food products and natural extracts on memory and behaviour.
- Identification and preclinical study of therapeutic targets directed to the discovery of novel drugs for the treatment of memory loss.
- Use of gene therapy to test the effectiveness of drugs or molecules against memory loss in animal models of aging and of neurological and neurodegenerative diseases.
- Open to accept participation of private or other type of investment in the project of a memory enhancer molecule, RGS14, which is at final stage of preclinical studies.
INTRODUCTION

This research group studies the development and validation of tools for assessment and clinical diagnosis integrating biomechanics, physiology, psychometrics and clinical signs.

RESEARCH TOPICS

- Development, validation and sensitivity to change of instruments for results measuring in Clinical Sciences.
- Physiology and biomechanics applied to the musculoskeletal (dis)function. Preclinical studies.
- Health solutions based on information technology and mobile communication. Telemedicine and mHealth. Translational research and innovation.

SCIENTIFIC-TECHNICAL SERVICES

- Scientific-technical advice on matters of implementation programs of public and community health in chronic illness.
- Scientific-technical advice in Physiotherapy, Podiatry and Occupational Therapy.
- Scientific-technical advice on Telemedicine and mHealth.
- Advice on innovation in education in health sciences.
- Development of biotechnological applications of human movement.
- Development and validation of questionnaires and clinical assessment instruments.

RESEARCH GROUP LEADER: ANTONIO IGNACIO CUESTA VARGAS
PAI CODE: CTS631

CONTACT
PHONE: 951 952 852 | FAX: 952 132 913
E-MAIL: acuesta@uma.es | WEB: http://clinimetria.es/
EVALUATION OF EFFECTIVENESS, SAFETY AND ECONOMY OF MEDICINES

INTRODUCTION

This research group specialises in the evaluation of drug efficacy, safety and cost. In this multidisciplinary group you can find experts in digestive diseases, primary care physicians, clinical pharmacologists and health economists. They belong to the Málaga Biomedical Research Institute (IBIMA), University of Malaga, Andalusian Public Healthcare System and Center for Biomedical Network Research: hepatic and digestive diseases (CIBERehd). It is also a mentoring centre for the IUPHAR (International Union of Basic and Clinical Pharmacology; https://iuphar.org/clinical-division/mentoring-centers/) clinical pharmacology programme.

RESEARCH TOPICS

- Study of Drug-Induced Liver Injury (DILI): Epidemiological investigation, risk factors, establishment of causality, patient stratification, genetic factors, identification of biomarkers, effective treatments and clinical trials.
- Mechanisms of Drug-Induced Liver Injury: genetic and epigenetic studies, role of extracellular vesicles and microRNAs, metabolomics, microbiota and immunophenotyping studies.
- Etiopathogenesis, clinical course, biomarkers and non-invasive diagnosis in steatotic liver disease associated with metabolic dysfunction (MASLD) and drug-induced steatosis (DIS).
- Health economics and rational use of drugs.
- Drug safety and efficacy in primary care.

SCIENTIFIC-TECHNICAL SERVICES

- Liver safety assessment for drugs: pharmacoepidemiological studies and artificial intelligence in the study of drug-induced liver damage.
- Pharmacovigilance: design and evaluation of safety and efficacy in clinical trials.
- Advice and evaluation of the role of medications in the onset and evolution of steatotic liver disease associated with metabolic dysfunction (MASLD).
- Health Economics consulting.
- Study of drug toxicity in in vitro human cellular models.
- Immunophenotyping using flow and mass cytometry.

RESEARCH GROUP LEADER: Mª ISABEL LUCENA GONZALEZ
PAI CODE: CTS649

CONTACT
PHONE: 952 131 572 | FAX: 952131568
E-MAIL: lucena@uma.es / gestionfc@uma.es | WEB: www.spanishdili.uma.es
ADDRESS: Departamento de Farmacología y Pediatría. Facultad de Medicina. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The antithrombotic, tissue ischemia and neuroprotection research group has more than 30 years of experience in translational pharmacological research. The activities carried out are focused on translational research in cardiovascular disease (consolidated group of the Malaga Biomedical Research Institute, Area 1, Group A07). It has contributed to the development of antithrombotic drugs and the research of antioxidant and neuroprotective substances.

RESEARCH TOPICS

- Heart-healthy and neuroprotective effect of polyphenols contained in extra virgin olive oil.
- Mechanisms involved in the lack of response to antiplatelet therapy.
- Evaluation of the effect of drugs and / or polyphenols on the macro and microvascular complications of diabetes.
- Strategies and organizational change in relation to drug safety and pharmacovigilance.
- Evaluation of prescription and deprescription of drugs in primary care.

SCIENTIFIC-TECHNICAL SERVICES

- Experimental models of diabetes mellitus.
- Experimental models of brain damage.
- Drug evaluation and clinical trial design.
- Basic and clinical research methodology.
- Determination of biomarkers of vascular inflammation, oxidative state, neuroprotection.
- Morphometry and innumohistochemistry.
- Drug monitoring.

RESEARCH GROUP LEADER: JOSE ANTONIO GONZALEZ CORREA
PAI CODE: CTS655

CONTACT
PHONE: 952 131 569
E-MAIL: correa@uma.es
ADDRESS: Facultad de Medicina. Boulevard Louis Pasteur, 32 (Campus de Teatinos). 29071- Málaga
INTRODUCTION

This research group is specialized in the study of the molecular mechanisms of cardiometabolic and autoimmune pathologies as well as in the pathology of the elderly. They belong to the University of Málaga, the Andalusian Health System-Junta de Andalucía and the Regional University Hospital of Málaga.

RESEARCH TOPICS

- Diabetes, obesity and other cardiovascular risk factors.
- Clinical-epidemiological and genetic studies in systemic autoimmune diseases.
- Thromboembolic disease.
- Quality of care. Analytical assessment with special attention to patients with pluripathologies and palliative. Mortality analysis.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice on cardiometabolic pathologies, autoimmune diseases, thromboembolic disease and aging pathology.
- Evaluation of the physiopathological mechanisms and epidemiological patterns of cardiometabolic pathologies, autoimmune diseases, thromboembolic disease and aging pathology.
- Studies on cardiometabolic pathologies, autoimmune diseases, thromboembolic disease and aging pathology.

RESEARCH GROUP LEADER: RICARDO GOMEZ HUELGAS
PAI CODE: CTS656

CONTACT
PHONE: 951 952 778 | FAX: 952 137 586
E-MAIL: rgh@uma.es
ADDRESS: Facultad de Medicina. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The “Andalusian Psychosocial Research Group” (GAP) is located at the Psychology Faculty of the University of Malaga. The GAP is composed of professors, researchers and clinical professionals all with great experience in psychology, clinical psychology, psychiatry, primary health care and epidemiology. The great variety of experience of this multidisciplinary team permits different perspectives in the approach to research in common areas, bringing together knowledge of epidemiology, services and health care for their application in the educational and clinical settings. The main objective of the GAP is to study those areas of mental health in which we consider deficiencies to exist, thereby attempting to improve the care afforded to persons with mental health disorders.

RESEARCH TOPICS

- Serious mental disorders: Evaluation and psychological intervention.
- Assessment of mental health services.
- Epidemiology in mental health.
- Stigma, needs and informal care in people with mental disorders.
- Detection, evaluation and intervention in people with high capacities.
- Genetic and epi-genetic basis of mental disorders.
- Suicide: epidemiology and prevention.
- Gender and mental health perspective.

Scientific-technical services

- Analysis of persons with severe mental illness: genetic, physical and social perspective
- Design of psychiatric case registries and analysis of large clinical databases
- Study of mental health from the perspective of gender.
- Assessment of the use of mental health and primary care services
- Spatial and geographical analysis of mental health disorders.
- New technologies applied to psychotherapy (computer-aided therapies for depression).

Research Group Leader: Berta Moreno Kustner
PAI Code: CTS945

Contact
Phone: 952 132 553 | Fax: 952 131 100
E-mail: bertamk@uma.es
Address: Facultad de Psicología. Campus de Teatinos, s/n 29071
INTRODUCTION

This research group focuses on deciphering the cellular and molecular mechanisms involved in Alzheimer’s disease. The main objectives are 1) to understand the pathogenic mechanisms involved in synaptic and neuronal loss, with special interest in dissecting the role of the neuroinflammatory response (microglial and astroglial activation) in the development/progression of the disease; 2) identify biomarkers and therapeutic targets of clinical interest; and 3) evaluate the efficacy of potential treatments at the preclinical level. The group has an extensive experience in transgenic models, memory and learning tests, and neuroanatomy. In addition, the group is developing cellular models from iPSCs derived from Alzheimer’s patients. The group has established numerous collaborations with national and international research groups and collaborations with pharmaceutical companies for the identification of biomarkers of the disease and the evaluation of potential drugs against Alzheimer’s. This research group belongs to the Biomedical Research Institute of Malaga (IBIMA) and the Network Center for Biomedical Research in Neurodegenerative Diseases (CIBERNED).

RESEARCH TOPICS

- Neuroinflammation and neurodegeneration in Alzheimer’s disease.
- Identification of therapeutic targets for Alzheimer’s disease.
- Neuropathological biomarkers of clinical interest for Alzheimer’s disease.
- Transgenic models for the study of Alzheimer’s pathogenic mechanisms.

SCIENTIFIC-TECHNICAL SERVICES

- Study and evaluation of neuroprotective drugs.
- Neuropathological markers in animal models and postmortem human samples.
- Behavioural tests in animal models for memory and learning assessment.
- Ultrastructural analysis by transmission electron microscopy and immunogold labelling.
- Immunolabelling studies at light and confocal microscopy.
- Morphometric measurements by image analysis and stereological cell counting.
- Intracerebral stereotaxic injections in animal models.

RESEARCH GROUP LEADER: ANTONIA GUTIÉRREZ PÉREZ
PAI CODE: CTS950

CONTACT
PHONE: 951 952 778 | FAX: 952 131 937
E-MAIL: agutierrez@uma.es | WEB: https://www.ciberned.es/grupo-a-gutierrez.html
INTRODUCTION

Research group integrated by researchers belonging to UMA and the Public Health Care System in Málaga (Spain). The profile of its researchers is diverse (Nursing, Medicine, Anthropology, Biology, and Sociology). The group belongs as a senior group to the Institute for Biomedical Research of Málaga (IBIMA).

RESEARCH TOPICS

- Health Care Services and interventions for people with complex chronic conditions and great dependency levels.
- Physical and mental health, and quality of life of family caregivers of people with complex chronic conditions and great dependence levels.
- Research and knowledge transfer in people with complex chronic conditions, great dependency levels and vulnerability.
- Clinical safety in people with complex chronic conditions, great dependency levels and vulnerability.

SCIENTIFIC-TECHNICAL SERVICES

- Design of new models and evaluation of Health Care for people with complex chronic conditions and great dependency levels, and their caregivers.
- Evaluation of case management services.
- Design quantitative, qualitative and mixed methods studies for people with complex chronic conditions and great dependency levels, and their caregivers.
- Research on health inequalities for people with complex chronic conditions and great dependency levels, and their caregivers.
- Knowledge transfer about people with complex chronic conditions and great dependency levels, and their caregivers.
- Design of patient reported outcomes (PROs) and its clinimetric validation.
- Design and implementation of clinical trials in vulnerable population.
MOLECULAR BIOLOGY OF PREVALENT DISEASES

INTRODUCTION

The Molecular Biology of Prevalent Diseases CTS 981 research group is a multidisciplinary group composed of basic and clinical researchers whose objective is the study of prevalent diseases in the context of biomedical research. It has a scientific production of 311 articles in indexed international journals, 258 conference communications and has participated in 58 projects, mainly in national calls. The main lines of research range from the study of the metagenome, metabolome and transcriptome epigenome of diabetes and obesity in both adults and children, breast cancer, surgery for pancreatic and liver cancer, to the study of the molecular mechanisms responsible. of the pathophysiology of metabolism.

RESEARCH TOPICS

- Microbiome, metabolic diseases and cancer: detection of new biomarkers.
- Study of molecular markers of insulin resistance in morbid obese patients.
- Assessment of postprandial Lipemia.
- Epigenetics of pathological states.
- Studies of intervention in nutritional, obesity and diabetes.
- Molecular diagnosis and metabolism of infectious diseases and Oxidative stress in metabolic diseases.
- Male hypogonadism and obesity. Diabetic kidney disease, nephropathy associated with obesity.

SCIENTIFIC-TECHNICAL SERVICES

- Scientific-technical advice in intervention studies.
- Advice in independent clinical trials.
- Studies of the metagenome and epigenome.
- Scientific-technical advice in studies with animal’s models.

RESEARCH GROUP LEADER: MARIA ISABEL QUEIPO ORTUÑO
PAI CODE: CTS981

CONTACT
PHONE: 952 131 656
E-MAIL: iqueipo@uma.es
ADDRESS: Dpto. Bioquímica 1ª planta. Facultad de Medicina. Bulevar Louis Pasteur, 32, 29010 Málaga
INTRODUCTION

The research group of the Faculty of Psychology and Speech Therapy has an Audiovisual Laboratory including a soundproof booth for the Evaluation of Aphasia in the Cognitive Neurology and Aphasia Unit (UNCA) of the Centre for Medical and Health Research (CIMES). Moreover, the group belongs to the Biomedical Research Institute of Malaga - IBIMA. Finally, we can highlight that this interdisciplinary group has extensive experience in studying aphasia and maintains frequent collaborations with other leading groups in this field of research at an international level.

RESEARCH TOPICS

- Combined treatment (intensive language therapy, pharmacological treatment, and non-invasive brain stimulation) of chronic post-stroke aphasia and associated psychiatric disorders as well as in speech disorders.
- Brain plasticity mechanisms are involved in aphasia rehabilitation, repetition and word learning in healthy subjects and persons with chronic post-stroke aphasia.
- Non-linguistic cognitive functions required in recovery from chronic post-stroke aphasia.
- Neuroanatomical and functional networks of speech production in foreign accent syndrome and its variants.

SCIENTIFIC-TECHNICAL SERVICES

- Clinical trials on aphasia treatments.
- Scientific advice on the treatment of chronic post-stroke aphasia: clinical and translational research; teaching.
- Scientific-technical advice and post-processing of functional and structural Magnetic Resonance Imaging. Research into the brain networks involved in the benefits of aphasia treatments.
- Orientation towards personalised treatment of chronic post-stroke aphasia.
- Organisation of meetings and specialised training courses for health professionals on aphasia treatment based on scientific evidence.

RESEARCH GROUP LEADER: GUADALUPE DÁVILA ARIAS
PAI CODE: CTS994

CONTACT
PHONE: 952 137 607
E-MAIL: mgdavila@uma.es | WEB: http://unca.uma.es/
ADDRESS: Dpto. Psicobiología y Metodología de las Ciencias del Comportamiento. Facultad de Psicología y Logopedia. Campus de Teatinos, s/n. 29071- Málaga
PHYSICS, CHEMISTRY AND MATHEMATICS

- BIOMIMETIC DENDRIMERS AND PHOTONIC LABORATORY
- SPECTROSCOPY AND MOLECULAR STRUCTURE
- STRUCTURAL DESIGN OF INORGANIC MATERIALS
- INORGANIC ANALYSIS
- NON-ASSOCIATIVE STRUCTURES
- STATISTICS-MALAGA
- SULPHUR
- NEW INORGANIC MATERIALS
- LASER PROCESSING AND ANALYSIS OF MATERIALS
- DESIGN AND SYNTHESIS OF DRUGS
- POLYMER CONDUCTORS AND BIOPOLYMERS
- NUTRITION
- MATERIALS AND SURFACE ENGINEERING
- PHOTOCHEMISTRY AND NATURAL PRODUCTS
- COMPLEX ANALYSIS, FUNCTION SPACE AND OPERATOR THEORY
- GEOMETRY AND TOPOLOGY, UNIVERSITY OF MÁLAGA
- DIFFERENTIAL EQUATIONS, NUMERICAL ANALYSIS AND THEIR APPLICATIONS
- RHEOLOGY
- IVERIA
- JORDAN STRUCTURES
- STATISTICAL PHYSICS AND PHYSICS OF DISPERSED MEDIA
- STRUCTURED FLUIDS AND AMPHIPHILIC SYSTEMS
- GRAPH ALGEBRAS, EVOLUTION ALGEBRAS AND NON-ASSOCIATIVE STRUCTURES.
- REAL ANALYSIS
- STATISTICAL PHYSICS OF COMPLEX SYSTEMS
- HOME AUTOMATION, INDUSTRIAL MODELS, TECHNOLOGIES AND ORGANIZATION
- ORGANIC NANOTECHNOLOGY
INTRODUCTION

The Biomimetic Dendrimers and Photonic Laboratory is part of the Department of Organic Chemistry in the University of Málaga. Its research is focused on the development of new molecular and supramolecular chemical entities, at nano- and micro-scale, and their applications in biological medias of medical interest. Our research deals on the frontiers of nano-chemistry and biomedicine. The main interest is to improve existing diagnostic and therapies, by employing novel nanomaterials - dendrimers.

RESEARCH TOPICS

- Supramolecular Chemistry and Photochemistry
- Fluorescent Molecular Sensors
- Multichromophoric Systems
- Investigation of Surfaces by Fluorescence Spectroscopy
- Molecular Recognition
- Dendrimer Based Nanobiology Technology
- Synthesis of dendrimers and dendrimeric structures.

SCIENTIFIC-TECHNICAL SERVICES

- Design and engineering at molecular level of nanostructured organic compounds. Applications in the pharmaceutical industry.
- Design and manufacture of photonic devices for medical diagnostics. Biosensors.
- Interaction of dendrimers with the immune system: drugs allergy studies

RESEARCH GROUP LEADER: EZEQUIEL PEREZ-INESTROSA VILLATORO
PAI CODE: FQM017

CONTACT
PHONE: 952 137 565 | FAX: 952 137 565
E-MAIL: inestrosa@uma.es | WEB: http://www.ldbf.uma.es/
ADDRESS: Dpto. Química Inorgánica. Facultad de Ciencias. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group, in operation since 1998, its concern is the study of materials using SURFACE ENHANCED RAMAN SPECTROSCOPY (SERS), what has allowed it to publish several articles dealing with the methodology to analyze consistently the obtained spectra. Additionally, the use of Raman Microscopy as a non-destructive method of studying the structure of materials, helps to identify the identity of particles in the range of micrometers. Its research is supported by high level ab-initio-based quantum chemical calculations.

RESEARCH TOPICS

- SERS spectroscopy: theoretical models and applications.
- Spectroscopy and reactivity of energetic molecules.
- Microscopy and Raman microanalysis for nano-materials.

SCIENTIFIC-TECHNICAL SERVICES

- Raman laboratory.
- Micro-Raman laboratory
- Laboratory of atomic force microscopy (Characterization of microstructured materials).
- Specific training of research

RESEARCH GROUP LEADER: JUAN CARLOS OTERO FERNANDEZ DE MOLINA
PAI CODE: FQM103

CONTACT
PHONE: 952 132 019 | FAX: 952 132 047
E-MAIL: jc_otero@uma.es | WEB: http://www.uma.es/departamento-quimica-fisica/
ADDRESS: Dpto. Química Física. Facultad de Ciencias. Campus de Teatinos s/n. 29071. Málaga
INTRODUCTION

This group is focused on the design and characterization of inorganic materials such as ion/electronic conductors, cements and metal organo-frameworks (MOFs) hybrid materials based on metal phosphonates. Furthermore, in the last years arquaeometric studies on ancient ceramics and gems have also been carried out. These research lines require the use of multiple techniques such as laboratory X-ray, synchrotron X-ray and neutron diffraction (Rietveld quantitative phase analysis, ab initio structural determination or Rietveld structural analyses), impedance spectroscopy at different environments (from 10-30 to 0.21 atm O2, N2, H2, etc), shaping and rheology, solid NMR, XPS, scanning and transmission electron microscopy.

RESEARCH TOPICS

- Solid electrolytes and electrodes for protonic and solid oxide fuell cells.
- Metal organic framework hybrid materials (MOFs) based on phosphates and phosphonates.
- Process optimization in cement manufacture.
- Eco-cements: belite calcium sulfoaluminate, calcium aluminate, etc. Valorisation of waste materials.
- Photocatalytic materials for the degradation of pollutants: tiles, mortars, membranes....
- Archeometric studies in ancient ceramics and gems.

SCIENTIFIC-TECHNICAL SERVICES

- Advanced characterization of materials (mineralogical, quantitative phase, structural determination and microstructural analysis).
- New applications of mortar and natural stone.
- Rheological characterization of ceramic suspensions and cement pastes. Quantitative mineralogical analysis of cements.
- Shaping of ceramic materials through colloidal processing (bulks, tapes and coatings) for different applications.
- Electric characterization by AC and DC techniques: ionic conductivity at different environments, ion blocking, transport number measurements, coulombimetric titrations and Faradaic efficiency.

RESEARCH GROUP LEADER: AURELIO CABEZA DIAZ
PAI CODE: FQM113

CONTACT
PHONE: 952 131 874 | FAX: 952 132 000
E-MAIL: aurelio@uma.es
INTRODUCTION

This research group has over 20 years old searching for new analytical methods to help determine traces levels of metal ions (nickel, cadmium, mercury, etc.) in biological samples (urine, blood serum, biological tissue, etc.) and in environmental samples (different types of water, sediments, etc.). In the search for the analytical process automation, these scientists have developed a online ion-exchange preconcentration method.

RESEARCH TOPICS

- Development of new preconcentration and speciation methods of metal traces and ultra-traces in biological and environmental samples using ICP-AES, ETA-AAS and ICP-MS techniques.
- Use of chemometric methods for solving analytical problems.
- Development of new magnetic adsorbent nanomaterials for the analysis and decontamination of wastewater.

SCIENTIFIC-TECHNICAL SERVICES

- Trace element analysis of biological samples.
- Trace element analysis of environmental samples.
- Advice on chemical analysis of samples.
- Pesticide analysis.
- Analysis of products for swimming pools.
- Agricultural soil analysis.
- Food analysis.
- Semi-quantitative analysis of elements in different types of samples.
INTRODUCTION

The research group Non-Associative Structures, located in the Department of Algebra, Geometry and Topology of the Faculty of Science, is fundamentally dedicated to pure mathematics research; specifically in the area of non-associative algebras and in some generalizations of them. This group’s researchers have produced a large number of publications, which has accorded them an extensive research curriculum.

RESEARCH TOPICS

- Non-associative division algebras.
- Lie algebras.
- Lie triple systems.
- Root systems.
- Associative pairs.
- Alternative and Jordan pairs.
- Derivation algebras.
- Absolute value algebras.
- Composition algebras.
- Prehilbertian algebras.
- Finiteness conditions for modules.
- Algebraic number theory.

SCIENTIFIC-TECHNICAL SERVICES

- Advice about the research topics.
- Research training.
- Organisation of conferences and courses on non-associative structures.

RESEARCH GROUP LEADER: JOSE ANTONIO CUENCA MIRA
PAI CODE: FQM125

CONTACT
PHONE: 952 131 976 | FAX: 952 132 008
E-MAIL: cuenra@agt.cie.uma.es | WEB: http://www.agt.cie.uma.es/cuenra/index.html
ADDRESS: Dpto. Álgebra, Geometría y Topología. Facultad de Ciencias. Campus Teatinos, s/n. 29071-Málaga
INTRODUCTION

The research group Statistics – Malaga, of the Department of Statistics and Operations Research of the Faculty of Science, specialises in applying statistical methods to analyse data from different fields of study such as Medicine or Social Science. The scientists of this research group collaborate with numerous Spanish universities, amongst which the Complutense University of Madrid, the Autonomous University of Madrid, the University of Granada, Polytechnic University of Catalonia, and universities overseas such as the University of Florida. Their research could be of interest to companies wishing to conduct statistical studies, as well as data collection by means of interviews, surveys etc.

RESEARCH TOPICS

• Bayesian statistics.
• Model and variable selection.
• Markov chains Monte Carlo methods.
• Detection of turning points in time series.
• Polytomous logistic regression with general link function.
• Applications of statistics.

SCIENTIFIC-TECHNICAL SERVICES

• Statistical consulting related with research lines.
• Collection and data acquisition for later analysis through statistical methods:
  - Interviews.
  - Surveys.
• Advice on comparative models applied to social sciences.
• Accomplishment of multicausal analyses.
• Development of training materials related to statistics.
INTRODUCTION

A research group that concentrates its studies on the research of new analytical procedures for the identification, quantification and control of environmental pollutants, as well as the development of oxidation advanced treatments for the purposes of their elimination in natural and wastewaters.

RESEARCH TOPICS

- Analysis of organic environmental pollutants. Luminescent, chromatographic and atomic techniques.
- Tertiary treatments of wastewaters.
- Analysis of foodstuffs.

SCIENTIFIC-TECHNICAL SERVICES

- Analysis of organic environmental pollutants.
- Determination of pesticides in fruit and vegetable products.
- Regeneration wastewaters.
- Prevention and treatment of floating stains in coastal waters.
- Analysis of foodstuffs.

RESEARCH GROUP LEADER: MIGUEL HERNÁNDEZ LÓPEZ
PAI CODE: FQM148

CONTACT
PHONE: 952 131 886 | FAX: 952 131 886
E-MAIL: mherandez@uma.es | WEB: http://www.ciencias.uma.es/grupos/grupos/sulphur.html
INTRODUCTION

This group concentrates its research work on the synthesis and characterisation of porous inorganic solids, which are being studied as catalysts and supports for catalytically active species. The physico-chemical characterisation of these solids is carried out with the use of a broad spectrum of instrumental techniques. This research is accomplished in collaboration with national and foreign research groups, as well as with private companies on numerous occasions.

RESEARCH TOPICS

- Synthesis of mesoporous solids.
- Hydrogenation catalytic processes
- Oxidative catalysis and elimination of nitrogen oxides.
- Sulphur and nitrogen elimination reactions from fuels.
- Preparation of biodiesel through heterogeneous catalysis
- Valorisation of lignocellulosic biomass: production of biofuels and high value-added chemicals
- Synthesis of photoactive materials
- Preparation of adsorbents for the capture of carbon dioxide

SCIENTIFIC-TECHNICAL SERVICES

- Physico-chemical characterization of solids
- Chromatographic analyses.
- Chemical composition and causes of the rusting of metal structures.
- Analysis of surfaces by means of X-ray photoelectron spectroscopy (XPS).
- · Preparation of clean diesel and biofuels.
- Preparation of adsorbents for ammonia and/or hydrogen sulfide (unpleasant odors)
- Specific characterization of catalysts using TPD, TPR and TPO
- Drinking and waste water treatment

RESEARCH GROUP LEADER: PEDRO JESUS MAIRELES TORRES
PAI CODE: FQM155

CONTACT
PHONE: 952 137 534 | FAX: 952132000
E-MAIL: maireles@uma.es | WEB: https://www.uma.es/departamento-de-quimica-inorganica-cristalografia-y-mineralogia/info/70813/nuevosmateriales-inorganicos/
INTRODUCTION

The Laser Laboratory, Department of Analytical Chemistry, University of Málaga, is a research group established in 1987. The Group is specialized in laser processing and analysis of materials and offers quick-turnaround, cost-effective solutions to a variety of research and technical problems in diverse applications areas, including microelectronics, process monitoring technologies, environment, cultural heritage, and steel products and processes. The Laser Laboratory also designs and builds complete spectroanalytical systems to custom specifications, including compositional mapping systems, remote analysis instruments and portable/field deployable prototypes.

RESEARCH TOPICS

- New sources for Glow Discharge for Laser-induced Plasma Spectrometry.
- Fabrication of thin ZnO films by Pulsed Laser Deposition and characterization by several experimental methods.
- Remote detection of aerosols by Laser-induced Plasma Spectrometry (LIPS).
- Time-of-Flight Mass Spectrometry with Laser Ionization applied to the analysis of surfaces and interfaces.
- Surface analysis by Secondary Ions Mass Spectrometry.

SCIENTIFIC-TECHNICAL SERVICES

- Thin films analysis by Laser-induced Plasma Spectrometry.
- Design and construction of portable instruments to be applied on the characterization of steel industry products.
- Analysis of surfaces and interfaces of materials of industrial interest and cultural heritage goodies.
- Cultural Heritage investigation using Portable Laser Analyzers.
INTRODUCTION

This research group belongs to the Department of Biochemistry, Molecular Biology and Organic Chemistry. The research is focused on the synthesis of natural products or analogues with an important biological activity in the applied organism. Currently the researchers investigate products with immunosuppressive properties or inhibitors to tumor agents. Thus research is closely tied to biomedicine. The pharmaceutical and chemical industry, as well as institutions in the field of analysis and development of pharmaceuticals might very well become interested in the work of the 14 members of the group.

RESEARCH TOPICS

- Stereoselective synthesis of sulphur ylides: - Macrolide antibiotics. - Analogues.
- Synthesis of carbohydrate analogues: -C-Glycosides. -Iminosugars.
- Synthesis of natural compounds of pharmacological interest:
  - Stevastelines.
  - Liposidomycin.
  - Pironetina.
  - Bengamide.

SCIENTIFIC-TECHNICAL SERVICES

- Synthesis of organic compounds.
- Advice for the analysis of organic substances.
- Advice for the synthesis of organic compounds.
- Training courses about organic synthesis.

RESEARCH GROUP LEADER: Mª SOLEDAD PINO GONZÁLEZ
PAI CODE: FQM158

CONTACT
PHONE: 952 134 260 | FAX: 952 131 941
E-MAIL: pino@uma.es
ADDRESS: Dpto. Bioquímica, Biología Molecular y Química Orgánica. Facultad de Ciencias. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research activity that has been carried out by the staff of this Research Group concentrates on the study, by means of theoretical chemistry methods and experimental spectroscopic techniques, of synthetic organic polymers and of natural polymers. The final objective of all these studies is that of determining the relations between the molecular structures of these materials and their macroscopic properties.

RESEARCH TOPICS

- Optical spectroscopies and reticular dynamics of conductor organic materials.
- Study of the interactions between nucleic acids and natural and synthetic polyamines.
- Structural and vibrational properties of biological molecules in watery surroundings.
- Chemical-quantum characterisation of optoelectronically active polyconjugated organic materials.

SCIENTIFIC-TECHNICAL SERVICES

- Structural identification and characterization of all types of compounds and chemical processes by vibrational spectroscopy.
- Obtaining electrochemical biosensors for the purposes of recognising and measuring nucleic acid sequences (RNA and DNA).
- Use of molecular modelling programmes and quantum chemistry.

RESEARCH GROUP LEADER: JUAN TEODOMIRO LÓPEZ NAVARRETE
PAI CODE: FQM159

CONTACT
PHONE: 952 132 018 | FAX: 952 132 000
E-MAIL: teodomiro@uma.es | WEB: http://www.uma.es/departamento-quinica-fisica/info/105407/grupo-fqm159/
ADDRESS: Dpto. Química Física, Facultad de Ciencias. Teatinos. 29071. Málaga
INTRODUCTION

The research activity of this group bears on the resolution of analytical problems by means of instrumental and mathematical techniques. The subjects dealt with include the development of detection systems for two-dimensional formats, the improvement of the selectivity in spectroscopic measures and new intensifiers of the signal in chemoluminousent processes. Regarding the latter line, mention should be made of the application of fluorescent biosensors for agro-feeding analysis.

RESEARCH TOPICS

- Analytical applications of spectroscopy with polarised light.
- Development of chemoluminousent sol-gel biosensors.
- Analytical methods based on time measurements of the lifespan and/or anisotropy of fluorescence.
- Detection systems for two-dimensional formats. Application to fine-layer chromatography and immunoassays.

SCIENTIFIC-TECHNICAL SERVICES

- Use of fluorescent or chemoluminousent biosensors for agro-feeding analysis.
- Detection and quantitative determination of chiral compounds.
- Methods for analysing pesticide and medicine traces.

RESEARCH GROUP LEADER: AURORA NAVAS DÍAZ
PAI CODE: FQM180

CONTACT
PHONE: 952 131 880 | FAX: 952131884
E-MAIL: A_Navas@uma.es
MATERIALS AND SURFACE ENGINEERING

INTRODUCTION

A research group of the UMA constituting a unit associated with CSIC researchers, and with much experience in obtaining materials, surfaces and coverings with industrial applications. The characterization systems and equipments they have are to be found in three laboratories; one of them located in the Central research Services of the University of Malaga, another one located in the Department of Applied Physics (Faculty of Sciences) and a third located in the Technological Park of Andalusia in Malaga.

RESEARCH TOPICS

- Preparation and characterization of thin layers and nano structures.
- Preparation of selective surfaces.
- Preparation of nanostructured anodes and cathodes for ion-lithium batteries.
- Preparation and characterization of transparent conducting oxides (TCO).
- Generation of nanoparticles by laser irradiation of microscopic precursors for energetical applications.
- Improving efficiency of commercial monocrystalline Si solar cells very thin.

SCIENTIFIC-TECHNICAL SERVICES

- Obtaining thin layers and coverings with industrial applications.
- Obtaining materials for energy applications (solar energy, electrodes of ion-lithium batteries, thermal control in buildings, etc.).
- Analysis of physical and chemical properties of layers and interfaces.

RESEARCH GROUP LEADER: FRANCISCO DE PAULA MARTÍN JIMÉNEZ
PAI CODE: FQM192

CONTACT
PHONE: 952 132 037
E-MAIL: marjim@uma.es | WEB: http://www.uma.es/investigadores/grupos/lms
PHOTOCHEMISTRY AND NATURAL PRODUCTS

INTRODUCTION

This research group located within the department of organic chemistry, Faculty of Science, is dedicated to the study of photochemical and natural products, for implementation in areas such as chemical synthesis, biology and medicine.

RESEARCH TOPICS

- Isolation, characterization, synthesis and pharmacological activity of various alkaloids.
- Isolation, structural determination and synthesis of natural products.
- Synthetic and mechanistic aspects of the Molecular Photochemistry.
- Synthesis and study of antigenic determinants and antigens to detect immunoglobulins to beta-lactams.

SCIENTIFIC-TECHNICAL SERVICES

- Study of natural products of dietary and nutritional interest.
- Synthesis of organic compounds for the preparation of resistant surfaces to proteins and biosensors.
- Synthesis of benzazepines with biological interest. Approaches to drugs.
- Synthesis and identification of antigenic determinants of beta-lactam antibiotics.

RESEARCH GROUP LEADER: AMELIA DIAZ MORILLA
PAI CODE: FQM209

CONTACT
PHONE: 952 131 934
E-MAIL: amelia@uma.es
INTRODUCTION

The research group Complex Analysis, Function Space and Operator Theory, located in the Department of Mathematical analysis of the Faculty of Sciences, is devoted primarily to research in pure mathematics, specifically in one of the most classic, but fully in force, branches of mathematics: Complex Analysis. This branch has strong links with other such as harmonic and functional analysis, probability theory, geometry and mathematical physics. The members of the group have an extensive experience in teaching and research and collaborate with researchers from other Spanish and European universities. The director’s group coordinates a national thematic network in complex analysis with 80 members from 14 universities.

RESEARCH TOPICS

- Spaces of analytic functions, conform applications, Riemann surfaces.
- Fixed point.
- Theory of Symmetry:
  - Applied to complex variables.
  - Applied to differential equations.
- Spaces of analytic functions.
- Conform applications.
- Ergodic theory.
- Approximation theory.
- Fixed point theory.
- Differential equations.

SCIENTIFIC-TECHNICAL SERVICES

- Advice for other researchers.
- Organization of congresses on complex analysis and operator theory.

RESEARCH GROUP LEADER: DANIEL GIRELA ALVAREZ
PAI CODE: FQM210

CONTACT
PHONE: 952 131 905 | FAX: 952 131 894
E-MAIL: girela@uma.es
INTRODUCTION

The research group Geometry and Topology, University of Malaga from the Faculty of Sciences, is specialized in the studies of pure mathematics; however, research can be applied to fields as distinct as economics or robotics. Thus, the 12 members of the group have a profound experience as advisors for the design and the shape of surfaces in order to present optimized reflective and refractive properties for sound, light and other electromagnetic waves. The practical applications are of interest for various companies designing, e.g., photovoltaic panels or parabolic antennas.

RESEARCH TOPICS

- Homotopy theory.
- Topological robotics.
- Geometric models in economy.
- Localization theory.
- Theoretical physics: Reflective and refractive surfaces.
- Symplectic geometry.

SCIENTIFIC-TECHNICAL SERVICES

- Advisor in robotics.
- Advisor on reflective and refractive surfaces.
- Training in homotopy theory and its applications.
- Organization of congresses on:
  - Geometry.
  - Topology.

RESEARCH GROUP LEADER: ANTONIO ANGEL VIRUEL ARBAIZAR
PAI CODE: FQM213

CONTACT
PHONE: 952 132 387 | FAX: 952 132 008
E-MAIL: viruel@agt.cie.uma.es
ADDRESS: Dpto. Álgebra, Geometría y Topología. Facultad de Ciencias. Campus de Teatinos, s/n. 29071-Málaga
INTRODUCTION

This research group has numerous publications and extensive experience in the field of numerical analysis. The 9 researches of the group are specialists in numerical flow simulation and hydraulic models. Within this innovative research line they have developed a software application (http://www.damflow.org) capable to recreate distinct geophysical flow phenomena. Thus, with help of this software they are able to study, e.g. the behaviours of tsunamis, river overflows as well as contamination discharges in a determined fluid, etc. (http://anamat.cie.uma.es/animaciones).

RESEARCH TOPICS

- Numerical analysis of equation systems of partial derivatives:
  - Element methods.
  - Finite volume methods.
- Numerical simulations of geophysical flows.
  - Shallow water models.
  - Sediment transport.
  - Submarine landslides. Tsunami generation.
  - Oceanographic applications.

SCIENTIFIC-TECHNICAL SERVICES

- Numerical method laboratory:
  - Parallel and vector scientific computation (Computer cluster).
  - Web development platform allowing the simulation of geophysical flow.
  - 3D visualization software.
- Advice on hydraulic models.
INTRODUCTION

A research group that concentrates its studies on Rheology, a science that studies the deformation and flow of a body that has been subjected to external efforts. Its study is essential in many industries, for it makes it possible to characterise the mechanical behaviour of the material, which in turn makes it likewise possible to recognise the influence that the quantity and the type of components exercise in their viscoelastic response.

RESEARCH TOPICS

- Rheology of colloidal suspensions.
- Rheology and characterisation of ceramic materials.
- Rheological and electrokinetic properties of complex fluids (colloids and polymers).

SCIENTIFIC-TECHNICAL SERVICES

- Determination of the mechanical behaviour (viscous and elastic components) of foodstuffs, for the quantification of its level of acceptance as a product for consumption.
- Determination of the influence of the preparation time of the food product (date of expiry) in its rheological response.
- Determination of rheological and electrokinetic properties of ceramic and polymeric materials. Application to the industry of self-compacting concretes.

RESEARCH GROUP LEADER: FRANCISCO JOSÉ RUBIO HERNÁNDEZ
PAI CODE: FQM231

CONTACT
PHONE: 952 131 357 | FAX: 952132064
E-MAIL: fjrubio@uma.es | WEB: http://www.gre.uma.es/
INTRODUCTION

This research group is composed of 3 mathematicians who have extensive experience in mathematical and statistical analysis applied to various areas as diverse as Geology, Language and Physics. Their latest research is focused on the study of control theory applied to the theory of elasticity, which are ultimately applied to mathematical problems in theoretical physics.

RESEARCH TOPICS

- Creation of theoretical and practical models for the organization of any language at any level:
  - Morphological.
  - Syntactic.
  - Phonetic.
- Applications such as:
  - Information Codification.
  - Automatic text generation.
  - Evaluation and decision making for earthquake predictions.
- Evaluation and decision making for earthquake predictions

SCIENTIFIC-TECHNICAL SERVICES

- Applications development for:
  - Author identification.
  - Information codification.
  - Automatic text generation.
  - Language organization.
- Creation and/or advice on software development.
- Advice about the research topics.
INTRODUCTION

This research group is integrated by mathematicians from different universities. It is mainly focused on the study of Lie algebras and Jordan systems, both disciplines being related to theoretical physics and Quantum Mechanics.

RESEARCH TOPICS

- Lie algebras.
- Jordan systems.
- Non-associative structures and their connection with Functional analysis.

SCIENTIFIC-TECHNICAL SERVICES

- Specific formation in non-associative structures.
- Organization of congresses and workshops about non-associative structures.

RESEARCH GROUP LEADER: MIGUEL GOMEZ LOZANO
PAI CODE: FQM264

CONTACT
PHONE: 952 132 134 | FAX: 952 132 008
E-MAIL: miggl@uma.es | WEB: http://www.ciencias.uma.es/grupos/grupos/algebra.html
ADDRESS: Dpto. Álgebra, Geometría y Topología. Facultad de Ciencias. Campus Teatinos, s/n. 29071-Málaga
INTRODUCTION

The main focus of the group is the development of theoretical studies and numerical methods and simulations to study the collective behavior of systems of nanoparticles. In particular, they study the behavior of nanoparticle suspensions in aqueous media. These systems have an interest in biotechnology and biomedical applications. They also study the ordering of assemblies of magnetic nanoparticles, exploring the physical limits for the storage of information on magnetic media. Moreover, it maintains collaboration in external projects of other research groups, which belong to other Universities, OPIs (such as the CSIC) and R & D & I services of many technological companies. Many of these collaborations are based on the expert use of multiphysics simulation and nume

RESEARCH TOPICS

- Electrokinetics and rheological behaviour of nanoparticle Systems.
- Phase transitions in systems of magnetic nanoparticles.
- Rational design of hydrogels and stimuli-responsive nanoreactors.
- Encapsulation and delivery of drugs in hydrogels.
- Numerical simulations in science and Engineering.

SCIENTIFIC-TECHNICAL SERVICES

- Computer models of physical systems.
- Multiphysics numerical simulations of heat transfer phenomena, fluid dynamics, structural mechanics, electromagnetism, and chemical engineering.

RESEARCH GROUP LEADER: JUAN JOSE ALONSO PEREDA
PAI CODE: FQM278

CONTACT
PHONE: 952 132 039 | FAX: 952 132 382
E-MAIL: jjalonso@uma.es
ADDRESS: Dpto. Física Aplicada I. Facultad de Ciencias. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group studies the phenomena of aggregation amphiphilic substances, focusing on the surfactants. These products have a great scientific interest because it decreases the surface tension of water and the result of this research can be applied in the made of medicaments, paints, etc. Its last work has been related with sugar-based surfactants, very important for the environment because they are biodegradable and non-toxics.

RESEARCH TOPICS

- Thermodynamics and structural aspects of micelle formation.
- Characterization of polymer-surfactant interactions.
- Study about surface activity of amphiphilic systems.
- Biosurfactants and biopolymers applications.

SCIENTIFIC-TECHNICAL SERVICES

- Time-resolved fluorescence measurements.
- Steady-state fluorescence measurements.
- Particle size measurement on the nanometers scale.
- Measurement of Surface tension (plate and ring method).

RESEARCH GROUP LEADER: JOSE ANTONIO MOLINA BOLIVAR
PAI CODE: FQM287

CONTACT
PHONE: 951 952 298 | FAX: 952 132 064
E-MAIL: jmb@uma.es
ADDRESS: Dpto. Física Aplicada II. E.U. Politécnica. Campus Teatinos s/n. 29071. Málaga
GRAPH ALGEBRAS, EVOLUTION ALGEBRAS AND NON-ASSOCIATIVE STRUCTURES.

INTRODUCTION

Our research group is devoted to the following lines: graph algebras, evolution algebras, Lie structures, gradings and connection techniques. We have also interest on the relation with other disciplines, as Physics and Biology. We use computational tools (symbolic calculus) as an instrument for our research. The team, consisting of 7 researchers: four female and three male, has a wide curricula comprising research, teaching and dissemination.

RESEARCH TOPICS

- Leavitt path algebras.
- Computational techniques for Lie algebras.
- Lie triple systems.
- Lie-Yamaguti algebras.
- Evolution algebras.
- Connection techniques.

SCIENTIFIC-TECHNICAL SERVICES

- Advice about research grants from Spanish public institutions:
  - Projects.
  - Scientific and technological individual activities.
- Training courses on various specialized software tools.
- Organization of workshops and conferences related to the lines of research of the group.
- Advice of other researchers.
- Advisoring service for planning, organizing and management of research schools at an international level.
- Experts on international cooperation (at a scientific level).

RESEARCH GROUP LEADER: CANDIDO MARTIN GONZALEZ
PAI CODE: FQM336

CONTACT
PHONE: 952 131 971 | FAX: 952 132 008
E-MAIL: candido_m@uma.es | WEB: http://agt2.cie.uma.es
REAL ANALYSIS

INTRODUCTION

The group Real Analysis was created in the Department of Mathematical Analysis, Faculty of Science, University of Malaga. It has evolved during these years and now the main body is formed by researchers of this department and the corresponding one in the University of Seville. The group consists of 11 highly qualified members most in Andalusia and some abroad. All have a long history of research and teaching. The interest of the team is the study of Harmonic Analysis, both Linear and Multilinear, in weighted spaces (the so-called Theory of Weights) and applications to Ergodic Theory. More precisely, these researchers study various types of maximal operators, singular integrals, fractional integrals and almost everywhere convergence of operators that are of interest by themselves in Harmonic Analysis. Furthermore in many cases there are important applications to Ergodic Theory.

RESEARCH TOPICS

- Harmonic Analysis: Maximal operators, singular integrals, fractional integrals, etc. Weights
- Ergodic Theory: Averages associated to operators: almost everywhere and norm convergence?
  Maximal operators associated to averages

SCIENTIFIC-TECHNICAL SERVICES

- Theory of weights: maximal operators, singular integrals, fractional integrals.
- Ergodic theorems.
- Participation and organization of conferences and meetings on Real and Harmonic analysis.
- Advice and training for other researchers.

RESEARCH GROUP LEADER: FRANCISCO JAVIER MARTÍN REYES
PAI CODE: FQM354

CONTACT
PHONE: 952 131 901 | FAX: 952 131 894
E-MAIL: martin_reyes@uma.es
INTRODUCTION

The research group Statistical Physics of Complex Systems of the Department of Applied Physics II, located at E.T.S.I. Informatica (Higher Technical School of Engineering, Dep. Informatics), is specialized in the use of statistical physics for the analysis of sequences in the DNA chain. Principle research objective is to ascertain, whether there is hidden information in the DNA and to decipher it. Furthermore, the interdisciplinary group, formed of 5 researchers from various academic fields, like physics, mathematics and informatics, studies distinct physical processes that are based on the behaviour of disordered conductors. Because of the fundamental nature of the studies possible applications range from medicine, biotechnology, engineering, physics to even intelligent searches in a text. In the last-mentioned line of investigation, the scientists develop a computer program that is able to extract keywords from books.

RESEARCH TOPICS

- Bioinformatics.
- Statistical physics.
- Numeric simulation of complex systems.
- Analysis of time series.
- Analysis of physiological signals.
- Computational linguistics.

SCIENTIFIC-TECHNICAL SERVICES

- Numeric simulation and calculation: Physical systems. Mechanical systems. Physiological signals (cerebral and cardiac).
- Analysis of time series.

RESEARCH GROUP LEADER: PEDRO JUAN CARPENA SANCHEZ
PAI CODE: FQM362

CONTACT
PHONE: 952 132 748  |  FAX: 952 134 367
E-MAIL: pjcarpena@uma.es
ADDRESS: Dpto. Física Aplicada II. E.T.S.I. Informática. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The "Home Automation, Industrial models, Technologies and Organization" group has a large qualified personnel, numerous patents, domotic laboratories, and all necessary equipment to carry out the multiple research lines that they develop. In addition, this group owes the creation recently of the Domotics and Energetic Efficiency Institute (IDEE), which is located in the Industrial Engineering School.

RESEARCH TOPICS

- Home automation and health engineering.
- Bioclimatic architecture.
- Lighting techniques.
- Electronic control systems. Control systems by plc. Mixed control systems. Carrier wave system.

SCIENTIFIC-TECHNICAL SERVICES

- Sensor design and manufacture for industrial and service applications.
- Domotics.
- Energy efficiency in buildings.
- Design and manufacture of embedded control systems.
- Home automation applications for health.

RESEARCH GROUP LEADER: SALVADOR MERINO CÓRDOBA
PAI CODE: FQM385

CONTACT
PHONE: 951 952 725 | FAX: 951952620
E-MAIL: smerino@uma.es | WEB: http://www.uidee.es
ADDRESS: E.T.S.I Industriales. Campus de Teatinos s/n 29071 - Málaga
INTRODUCTION
The research group on natural products, drug synthesis and nanotechnology is located in the Department of Organic Chemistry of the Faculty of Sciences, and is dedicated to the synthetic study of active natural products, their inclusion in metallo-organic nanoparticles and the nanostructuring of surfaces.

RESEARCH TOPICS
- Study of natural products synthesis, in particular alkaloids, nucleosides and terpenes.
- Organic macromolecules synthesis for metallic surfaces nanostructuring, and study of their resistance to protein adsorption.
- Natural products isolation. Citotoxicity.
- Metallopolymeric nanoparticles preparation (lipids, pNIPAM, p4VP and pVP polymers, and cyclodextrins) stimuli-sensitive to drugs transport, in particular, antitumor drugs. Hollow and solid nanoparticles.
- Scelletium alkaloids. Isoquinoline alkaloids.
- Inclusion of active organic compounds in nanospheres.

SCIENTIFIC-TECHNICAL SERVICES
- Activity of natural products of interest study.
- Organic compounds used as analytical standards synthesis.
- Technical advice on synthesis and isolation of natural products.
- NMR, MS, HPLC characterization of organic compounds.

RESEARCH GROUP LEADER: JUAN MANUEL LOPEZ ROMERO
PAI CODE: FQM397

CONTACT
PHONE: 667 455 308
E-MAIL: jmromero@uma.es | WEB: https://www.uma.es/investigadores/grupos/nanotec/INDEX.html
ADDRESS: Departamento Química Orgánica. Facultad de Ciencias. Campus de Teatinos. Universidad de Málaga. C.P. 29010 - Málaga
CONTEMPORARY HABITABILITY IN TOURISM, HERITAGE AND SUSTAINABILITY
MUSITHEMA
INTERDISCIPLINARY GROUP OF RURAL AND URBAN STUDIES
INNOVATION AND INCLUSIVE EDUCATIONAL DEVELOPMENT
READING EDUCATION, LITERATURE AND LEARNING (ELLA)
RESEARCH GROUP IN DIDACTICS OF MULTIMODAL HUMANITIES (GRIDHUM)
LEXICOGRAPHY AND TRANSLATION
ART, LANDSCAPE AND INNOVATION (ARPA)
RESEARCH GROUP VARIATION IN TIME AND SPACE (VATS)
DEPARTMENT OF HISTORY OF ART
THEORY AND HISTORY OF ENGLISH LANGUAGE
THEORY OF EDUCATION AND SOCIAL EDUCATION
RESEARCH GROUP ON GERMAN IDEALISM
PREHISTORY DIVISION - UNIVERSITY OF MALAGA
CHILDHOOD EDUCATION AND TEACHER TRAINING
SOCIAL PSYCHOLOGY AND THE CHALLENGES OF 21ST CENTURY
ENGLISH LITERATURE FROM MALAGA
LITERARY AND CRITICAL ANDALUSIAN
DOCUMENTARY SOURCES ON THE KINGDOM OF GRANADA
CULTURAL OF THE DIVERSITY AND SCHOOL
DILINGÜA
COGNITIVE SCIENCE
TIEDPAAN - MÁLAGA
HISTORY AND COMPUTER SCIENCE
EVALUATION OF PROGRAMS FOR PSYCHOLOGICAL AND SOCIAL INTERVENTION
WOMEN´S HISTORICAL STUDIES ASSOCIATION
INTERDISCIPLINARY GROUP MALAGA MODERNA
EVALUATION AND INNOVATION IN EDUCATION IN ANDALUSIA
HERMES
RESEARCH IN DIDACTICS OF THE SCIENCES
- ANDALUSIAN HISTORICAL RESEARCH
- HISTORY OF ANDALUSIA - CRISOL MALAGUIDE (MELTING POT MALAGA)
- ARCHAEOLOGY DIVISION - UNIVERSITY OF MALAGA
- SPECIFIC EDUCATIONAL SUPPORT NEEDS IN CHILDREN AND ADOLESCENTS WITH NEURODEVELOPMENTAL DISORDERS
- MORAL AND POLITICAL PHILOSOPHY
- TRAINING, ORIENTATION, EMPLOYABILITY, ENTREPRENEURSHIP, INCLUSION AND INNOVATION GROUP
- METHODS AND RESOURCES FOR EDUCATIONAL RESEARCH AND INNOVATION
- ADVICE ON SCHOOL VIOLENCE AND STRESS PREVENTION
- HISTORY OF EDUCATION
- URBAN VERNACULAR OF MALAGA (V.U.M.)
- HISTORIOGRAPHY STUDIES
- TRANSLATION STUDIES AND INTERCULTURAL RELATIONS
- HISTORY OF PHILOSOPHY ANDALUSIA
- PHILOSOPHICAL FUNDAMENTALS OF THE THIRD MILLENNIUM
- LINGUISTIC VARIATION AND PHILOLOGICAL EDITION OF ENGLISH MANUSCRIPTS
- HISTORY, IMAGE AND MEMORY OF ANDALUCIA
- COMPUTER TEXT ARCHIVES OF ANDALUSIA (ARINTA)
- PHYSICAL EDUCATION AND SPORTS. VOCATIONAL TRAINING OF TEACHING STAFF
- STYLES AND COPING STRATEGIES AND VULNERABILITY TO PAIN. INDIVIDUAL DIFFERENCES AND IMPLICATIONS FOR PSYCHOLOGICAL INTERVENTION
- CONVIVIO: DESIGN, CULTURE AND IDENTITY
- QUALITY OF LIFE AND COMMUNITY INTERVENTION AND ORGANIZATIONAL INTERVENTION
- HISTORY OF PRESENT TIME
- TEACHERS, COMMUNICATION AND EDUCATIONAL RESEARCH
- TRANSLATION, LITERATURE AND SOCIETY
- COMMUNICATION STUDIES AND INFORMATION SOCIETY
- SOCIAL SCIENCES IN THE EDUCATIONAL PLAN FOR PRE-SCHOOL AND PRIMARY EDUCATION. INNOVATIVE DIDACTIC PROPOSAL. ANDALUSIAN CULTURE
- CAUSAL MECHANISMS AND PREVENTION OF DEPRESSIVE AND VIOLENT BEHAVIOURS
- ORIGINES GENTIUM. MYTHS AND FOUNDING TRADITIONS IN THE WESTERN MEDITERRANEAN
- SPANISH-AMERICAN NARRATIVE POETRY: LITERARY RELATIONS
- INTERLEXICAL
HUMANITIES

- ENGLISH GRAMMAR AND VOCABULARY STUDIES FROM THE SYNCHRONOUS, DIACHRONIC AND IMPLEMENTATION LEXICOGRAPHICAL POINT OF VIEW
- TRANSLATION, COMMUNICATION AND APPLIED LINGUISTICS
- GEOGRAPHICAL ANALYSIS
- MEDIEVAL RHETORIC
- MALACA
- TRANSLATION AND SPECIALIZED LANGUAGES
- EDUCATION, ART AND LITERATURE (E-ARLIT)
- LITERARY THEORY AND STUDIES. TRADITIONS OF HISPANIC CRITICISM
- APPLIED LINGUISTICS AND LANGUAGES
- STUDY AND TEACHING OF SPECIALISED SPEECHES AND NEW TECHNOLOGIES
- SOCIAL AND CITIZENSHIP EDUCATION
- CONTEMPORARY LITERATURE ABOUT EUROPE
- INTERDISCIPLINARY STUDY OF SOCIAL MOVEMENTS: PSYCHOSOCIAL, CULTURAL AND POLITICAL ASPECTS
- HISTORY, ANTHROPOLOGY AND GENDER: EAST ASIA, EUROPE AND AFRICA
- ANALYSIS OF NEWS ABOUT LINGUISTICS DISSEMINATION, LANGUAGES OF SPAIN AND ITS VARIETIES
- POETICS OF THE FICTION IN THE CONTEMPORARY ARTS
- ARTS, CULTURE AND TERRITORY
- ANDALUSIAN FEMALE SOCIOLINGUISTICS
- COMMUNICATION, TECHNOLOGY AND ARCHITECTURE
- URBANISM, TOURISM, LANDSCAPE AND ARCHITECTURAL INNOVATION
- SCIENCE EDUCATION AND COMPETENCES
- PATRIMONIUM
CONTEMPORARY HABITABILITY IN TOURISM, HERITAGE AND SUSTAINABILITY

INTRODUCTION

HATUPASO is the first research group created in the E.T.S. of Architecture of the University of Malaga, in 2008, and is composed of professors and architects of first level. With works referenced in numerous awards, publications and exhibitions, it offers a comprehensive service in architecture and urbanism based on its research main lines.

RESEARCH TOPICS

- Sustainable Architecture and Tourism.
- Urbanism for the 21st century.
- Opportunity areas for socio-economic development.
- Landscape and environment

SCIENTIFIC-TECHNICAL SERVICES

- Projects and management of architectural and heritage works.
- Sustainable tourism development.
- Environmental impact studies and analysis.
- Sustainable urban planning and development.
- Rehabilitation projects for landscape, heritage and environment.

RESEARCH GROUP LEADER: LUIS MACHUCA CASARES
PAI CODE: HUM064

CONTACT
PHONE: 951 952 664 | FAX: #Error
E-MAIL: machuca@uma.es
ADDRESS: E.T.S de Arquitectura. Campus El Ejido s/n. 29071 - Málaga
INTRODUCTION

The MUSITHEMA research group is settled in the Faculty of Psychology and Education at the University of Malaga. Members are professors and researchers with different backgrounds and a common interest on music, its relations with science, with culture and especially with the other arts. Scientific production of the group is supported mainly by financed research projects.

RESEARCH TOPICS

- Music and creativity.
- Music and communication.
- Musical heritage in Andalucia.
- Music and artistic education.
- Music therapy.
- Music teacher training.
- Transdisciplinarity.
- Music and neuroscience.
- Psychology of Music.

SCIENTIFIC-TECHNICAL SERVICES

- Organization and coordination of musical venues.
- Musictherapy for children and adults.
- Analysis of interest and attitudes towards any kind of music.
- The training of music teachers.
- Composing and arranging music.
- Conservation and management of musical heritage.
- Analysis of the data referred to the mentioned services.
- Experiment design.
- Scientific dissemination in topics related to music research.

RESEARCH GROUP LEADER: DANIEL MATEOS MORENO
PAI CODE: HUM067

CONTACT
PHONE: 952 132 456
E-MAIL: danielmm@uma.es | WEB: http://www.hum067.uma.es
ADDRESS: Dpto. Didáctica de las Lenguas, las Artes y el Deporte. Facultad de Ciencias de la Educación. Campus Teatinos, s/n 29071 - Málaga
INTERDISCIPLINARY GROUP OF RURAL AND URBAN STUDIES

INTRODUCTION

Research group composed mainly of geographers, but also include among its members economists, sociologists and forestry technical engineers belonging to three Universities and two public entities; In addition, its level of internationalization is remarkable, since one third of its members are assigned to non-Spanish universities. The research lines of the group are focused, on the one hand, on aspects related to the current complexity of the rural areas, highlighting two aspects: their new productive positions, such as agroindustrial complexes, ecological production and alternatives to traditional production; recreational and tourist activities; and its sociodemographic situation, emphasizing its structural characterization, the role of immigration, or the importance of the subsidies in areas characterized as deep rural. On the other hand, they also study urban aspects, focused on urban social microanalysis, the geographic aspect of immigration and the social inequalities and corrective policies of these in cities.

RESEARCH TOPICS

- Agribusiness and production and marketing of organic agri-food products.
- Recreational and tourist activities in the rural space.
- Sociodemography of rural areas.
- Study of social aspects of inequality in urban areas.
- Foreign immigration in urban areas. Characterization, impact and location.

SCIENTIFIC-TECHNICAL SERVICES

- Study and analysis of rural areas in different strategic positions: agro-industry, leisure, tourism, etc.
- Advice on social actions and policies applicable to rural areas.
- Study and analysis of social inequality in urban areas and cities.
- Study and analysis of the role of foreign immigration in urban spaces.

RESEARCH GROUP LEADER: JUAN JOSÉ NATERA RIVAS
PAI CODE: HUM1003

CONTACT
PHONE: 951 952 778 | FAX: 952 131 700
E-MAIL: jjnatera@uma.es | WEB: http://www.gieru.es/
ADDRESS: Dpto. de Geografía. Facultad de Filosofía y Letras. Campus de Teatinos, s/n. 29071 Málaga
INTRODUCTION

Research Group that aims to respond to the different research concerns in educational innovation for the development of inclusion in training contexts. They develop practical educational proposals to transfer to social and educational communities, initiatives and diverse actions including the following research areas: Inclusive Education, Interculturality, Neuroeducation, Educational Quality, Early Intervention, Education and Healthy Life, as well as educational projects related to care to diversity and personal and community learning needs.

RESEARCH TOPICS

- Inclusive Education.
- Interculturality.
- Neuroscience and Education.
- Education and Healthy Life.
- Innovation and Educational Quality.
- Early intervention.
- Family education.
- Educational measurement.

SCIENTIFIC-TECHNICAL SERVICES

- Advice on educational innovation for inclusive education and interculturality.
- Development of educational projects related to early intervention.
- Development of educational programs for attention to diversity.
- Pedagogical training specializing in issues of educational inclusion.
- IDEI consulting service for the adaptation of teaching to new post-covid demands.
INTRODUCTION

This is a research group on Reading Education, Literature and Learning (HUM-1048) is made up of a multidisciplinary team expert in neuroeducation, linguistics, ICT, pedagogy or psychology that aims to provide practical solutions to the needs of society: from Big Data analysis (users profiles, literature database...) to standardized test.

RESEARCH TOPICS

- Methods of qualitative and quantitative analysis on reading from a multidisciplinary approach: psychology, education, marketing, medicine, linguistics, among others.
- Analysis and optimization of reading resources according to real situations.
- Creation of a databases and qualitative and quantitative analysis on reading competence, critical competence, literary competence, among others.
- Adaptation to the Common European Framework of Reference and Bologna regulations within the scope of the above-mentioned competences.
- Neuroeducation, intelligence and learning.
- ICT and new technologies (AI, holograms...) applied to education.
- Citizen skills according to Europe.
- SDG.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice to educational centers from kindergarten level to university level.
- Creation of standardized evaluation tools in education and business.
- BIGDATA. Generation of databases of user profiles: teachers and students according to the above-mentioned competences. Generation of reading databases organized by levels approved by the Spanish Association of Reading Comprehension, A1-C2, according to CEFR.
- Data mining for machine learning or computational linguistics.
- Advice to publishers and creator of ICTs learning platforms.
- Homologation of European competences and SDG in education.
- AI (education) application.

RESEARCH GROUP LEADER: ELENA DEL PILAR JIMÉNEZ PÉREZ
PAI CODE: HUM1048

CONTACT
PHONE: 622 311 188
E-MAIL: elenapjimenez@uma.es | WEB: https://scholar.google.es/citations?user=juAVAHoAAAAJ&hl=es
ADDRESS: E.T.S.I. Industriales. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION
The Research Group in Didactics of Multimodal Humanities (GRIDHUM) is an initiative of a teaching-research-transdisciplinary team, specialised in the fields of knowledge of Humanities, Educational Sciences and Audiovisual Communication; its objective is research and innovation from the approaches of Feminist and Intersectional Studies, Cultural Studies and Multimodal Studies. GRIDHUM is made up of university lecturers, non-university teaching staff and specialists in formal, informal and non-formal educational contexts. The group is also made up of Canadian international collaborators from the Université du Québec à Trois-Rivières and the University of Ottawa and national collaborators from the Complutense University of Madrid and the National Museum of Anthropology.

RESEARCH TOPICS
- Research and innovation in Literacies.
- Teacher training in Social Science Didactics.
- Didactics of Herstory and Didactics of Otherness.
- Didactics of Geography and Outdoor Education; and Didactics of Places.
- Didactics of Andalusian Heritage and Culture: From Al-Andalus to Andalusia.
- Didactic Produsage and Teacher-Prosumer: mainstream culture, social networks, videogames.
- Performativity and discursive practices in international and national educational policy and curriculum.
- Formal and non-formal education in the humanities in museums and cultural spaces.
- Teaching of Social Sciences and Bilingualism.
- Vindication of Art History, Philosophy and Anthropology as school.

SCIENTIFIC-TECHNICAL SERVICES
- Advice in the development of educational innovation projects.
- Design and elaboration of didactic guides, manuals and didactic materials.
- Production of audiovisual educational resources.
- Organisation of academic and scientific events and training courses.
- Exhibition curatorship.

RESEARCH GROUP LEADER: LAURA TRIVIÑO CABRERA
PAI CODE: HUM1053

CONTACT
PHONE: 951 952 057
E-MAIL: laura.trivino@uma.es
ADDRESS: Facultad de Ciencias de la Educación. Boulevard Louis Pasteur. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group Lexicography and Translation has been involved in scientific and academic research for a substantial period of years. Alongside synchronic and diachronic research on Spanish lexis, phraseology and lexicographic repertoires, they have also been involved over the last decade in synchronic studies on contrastive phraseology, translation studies, multilingual lexicography, terminology, documentation, and the closely related areas of ICTs applied to translation, specialised translation and translation technologies. Their working languages include Spanish, English, German, Italian, Arabic, French and Catalan. The group has excellent contacts with Andalusian research groups and other national and international groups. As ample evidence of this should serve the national networks, the coordinated actions and the R&D projects in which the research group participates.

RESEARCH TOPICS

- Lexicography and Terminological resources.
- Translation.
- Phraseology.
- Documentation.
- Translation Technology.
- Application of ICT to the teaching of languages, to the teaching of translating and to the management of translation projects.

SCIENTIFIC-TECHNICAL SERVICES

- Specialised, direct and reverse translation services.
- Elaboration of terminological databases.
- Elaboration of multilingual glossaries and dictionaries.
- On-line language tuition.

RESEARCH GROUP LEADER: GLORIA CORPAS PASTOR

PAI CODE: HUM106

CONTACT
PHONE: 952 133 409  |  FAX: 952 133 419
E-MAIL: gcorpas@uma.es  |  WEB: http://www.lexytrad.es/
ADDRESS: Dpto.Traducción e Interpretación. Facultad de Filosofía y Letras. Teatinos. 29071. Málaga
ART, LANDSCAPE AND INNOVATION (ARPA)

INTRODUCTION

The research group Art, Landscape and Innovation (ARPA) HUM-1083 is made up of a group of researchers from the Department of Art and Architecture and linked to the Faculty of Fine Arts at the University of Malaga. The group was created with the aim of improving and enhancing the cultural, artistic and heritage quality of our urban and natural environments.

RESEARCH TOPICS

- Methods of analysis of the urban and natural landscape.
- Analysis and optimisation of the integration of sculpture in public space.
- Artistic experimentation in space.
- Study and research on the intangible indicators of the urban and natural environment.
- Analysis and implementation of the artistic fact in public and social environments.
- Artificial intelligence applied to the data visualisation and analysis on intangible indicators of the urban environment.

SCIENTIFIC-TECHNICAL SERVICES

- Elaboration of reports, studies, memories and budgets. Specialised theoretical and technical advice on the implementation of artistic works in urban and natural spaces.
- Making models, prototypes and artistic works for urban development.
- Training and guidance in the artistic development of projects integrated into the urban space.
- Cultural planning, events and artistic exhibitions: curatorship and artistic practice.
- Landscape studies and planning of itineraries with artistic and cultural value in urban and natural environments.
- Visualisation of data on public spaces. Phenomenography on the perception of the urban environment.

RESEARCH GROUP LEADER: JESÚS MARÍN CLAVIJO
PAI CODE: HUM1083

CONTACT
PHONE: 952 137 314
E-MAIL: jmarin@uma.es
INTRODUCTION

The RESEARCH GROUP VARIATION IN TIME AND SPACE (VATS) has been recently founded in the year 2023 by members of the Department of English at the University of Málaga and other Spanish universities sharing some scholarly interest in the study of linguistic variation, both synchronic and diachronic and from multi-faceted perspectives. The unit is mostly concerned with the analysis of the origin and development of linguistic forms in competition, with special focus on orthographic, morphosyntactic and lexical features. The aim of the group is then to increase understanding of the standardisation of English in the period 1500-1900 and subsequent configuration of present-day English.

RESEARCH TOPICS

- Linguistic change in the English language.
- Synchronic linguistics.
- Diachronic linguistics.
- Corpus linguistics.
- Codicology and paleography.

SCIENTIFIC-TECHNICAL SERVICES

- Edition and dating of unpublished manuscripts written in English.
- Compilation of historical corpora.
- Analysis of language in use.
- Analysis of attitudes towards language.
INTRODUCTION

This research group located at the Faculty of Philosophy and Letters at the University of Malaga, has an extensive curriculum in the study of history, culture, art and urban heritage in the province of Malaga. They also collaborated in documentaries and preparing inventories of cultural heritage with other Spanish and European cities.

RESEARCH TOPICS

- Urbanism, architecture and plastic arts in modern and contemporary ages.
- Theory and art criticism. Art Language.
- Aesthetics and Fine Arts.
- Historic Heritage.
- Conservation, dissemination and restoration.
- Museology and museography.
- Studies of women: iconography and creativity.

SCIENTIFIC-TECHNICAL SERVICES

- Preparation of inventories of historical and artistic heritage.
- Scientific studies of literary and documentary sources.
- Advice for cataloging-inventory of movable and immovable property.
- Making reports for the valorization of buildings.

RESEARCH GROUP LEADER: EUGENIO CARMONA MATO
PAI CODE: HUM130

CONTACT
PHONE: 952 131 690 | FAX: 952133441
E-MAIL: ecarmona@uma.es
ADDRESS: Dpto. de Historia del Arte. Facultad de Filosofía y Letras. Teatinos. 29071. Málaga
INTRODUCTION

The research group Theory and History of the English Language in the Department of English, French and German at the Faculty of Humanities studies English syntax both from the perspective of the description and analysis of the English language itself and from the perspective of syntactic theory. The aspect within minimalist syntactic theory (generative framework) that is our focus of study is the relation between syntax and morphology, more precisely the role played by morphology in core or narrow syntax, and this both as regards English as a specific language, and English as a member of the Germanic family, and the contrast between the latter and the Romance family. This contrast is relevant on the synchronic axis as well as the diachronic axis. One further relevant domain of study that has been at the centre of interest of this Group for the very last years is the processing of syntax and morphology from a neuro-physiological point of view: we are mainly interested in this respect in the analysis of the limits, if any, between the cited power of processing or computing of our brain/mind and the formal structure or architecture of what we call language.

RESEARCH TOPICS

- Study of English contemporary grammar and Spanish contemporary grammar within the framework of minimalist generative theory.
- Contrastive study English/Spanish, and contrastive study Germanic languages/Romance Languages.
- Study of diachronic syntax of English and the Germanic family in general.
- Study of language processing through neuroimaging.

SCIENTIFIC-TECHNICAL SERVICES

- Advice given on the differences between English and Spanish languages.
- Linguistic development advice on textbooks.
- Grammar advice on bilingual dictionaries.
- Support given in the development of guides in learning English.
- Lines of research advice on theoretical linguistics.
- Advice and support on the construction of linguistic paradigms for neuroimaging experiments.

RESEARCH GROUP LEADER: CONCEPCION CASTILLO ORIHUELA
PAI CODE: HUM157

CONTACT
PHONE: 952 131 791 | FAX: 952 131 843
E-MAIL: ccastillo@uma.es
ADDRESS: Dpto. Filología Inglesa, Francesa y Alemana. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

Research group that for more than a decade has been developing research projects on resilience networks and socio-educational inclusion. More recently, they have undertaken studies on job training in the company, educational relations and coexistence, the pedagogical study of masculinities and critical education and social justice. They have previously worked on topics such as teacher malaise, prevention of stress and anxiety in teachers; intercultural education and training for conflict management and mediation.

RESEARCH TOPICS

- Inclusive education and equity. Disability studies. Networks for the promotion of resilience and socio-educational inclusion.
- Evaluation of socio-educational public policies. Intersectionality.
- Narrative research and human rights. Pedagogical study of masculinities.
- Training of education professionals. Job training in the company.

SCIENTIFIC-TECHNICAL SERVICES

- Educational intervention with minors. Resources for the inclusion of excluded groups.
- Advice on the development of intercultural education, mediation and conflict reduction. Training techniques in social and emotional skills for educators.
- Advice on the development, implementation and evaluation of socio-educational plans and programs.
- Work training programs in the companies.
- Development of technical reports and political influence on inclusion and equity.
- Support in participatory research processes in educational communities.
INTRODUCTION

The research group on German idealism in the Department of Philosophy, Faculty of Philosophy and Letters, analyses idealism, one of the highlights of universal philosophy, as it is the only philosophy that embraces all human knowledge. Therefore, its components work with modern thinking by religion, metaphysics and society amongst other areas.

RESEARCH TOPICS

- Specialized studies on German idealism.
- Related studies to German idealism:
  - Past.
  - Ensuing.
- The translation of Shelling’s works.
- Research in order to overcome the German idealism approach.

SCIENTIFIC-TECHNICAL SERVICES

- Metaphysics studies.
- Theoretical advice on:
  - Metaphysics.
  - Philosophy of Nature.
  - Anthropology.
  - Theology.
  - Moral or ethical.
  - Logic.
- Advice given on the guidance and direction of research.
- Conference organization on lines of research.
- Publications related to research topics.

RESEARCH GROUP LEADER: Juan José Padial Benticuaga
PAI CODE: HUM172

CONTACT
PHONE: 952 136 680
E-MAIL: jjpadial@uma.es | WEB: http://www.leonardopoio.net/JUAN/schelling.htm
ADDRESS: Dpto. Filosofía. Facultad de Ciencias. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

A research group that is part of the department of Historiographical Sciences and Techniques, Ancient History and prehistory (Area of Prehistory) of the University of Malaga. Its activity mainly deals with the archaeological recording of prehistoric remains and studies of archaeological locations by means of updated analytic techniques.

RESEARCH TOPICS

• Analysis of the political significance of Prehistoric monuments in Iberia from an anthropological perspective.
• Employment of new technologies for the study and characterisation of Prehistoric monuments: remote sensing, big data, bayesian analyses, etc.
• Design of initiatives aimed at improving the protection, preservation and public presentation of southern Iberian Prehistoric monuments.

SCIENTIFIC-TECHNICAL SERVICES

• Delineation of archaeological activities and projects to be carried out at megalithic and ditched Prehistoric sites.
• Archaeological control and supervision of construction works in sub-urban areas.
• Valuation of archaeological sites.
• · Creation of Archaeological Maps.
• Creation of archaeological guides.
• Proposals for the Museological Preparation and Design of Interpretation Centres for archaeological sites.
INTRODUCTION

This research group is composed of researchers all from different universities and public administrations in Andalusia. Its main lines of research are focused on improving nursery education and the teacher training. They are members of International Association of Training and Research in Family Education (AIFREF).

RESEARCH TOPICS

- Minors in social risk. Inclusive nursery school.
- Creativity.
- Curriculum, methodology and linguistic competence in children's education.
- Family education.
- Technological resources applied to Early Childhood Education.
- Music and logical-mathematical education for children 0-6 years old.
- Emotional education.
- Artistic languages.
- Design and development of curricular materials. Training for educators.
- Education in nature.

SCIENTIFIC-TECHNICAL SERVICES

- Syllabus evaluation in children's education.
- Development of teaching materials for child education.
- Teacher training in child education analysis. Advising to teachers in test results which helping to educational needs detection of students.
- Assistance for the reduction of marginalization, crime and school failure.
- Organizational and educational counseling to nursery school.
- Assessment of language skills in students.
- Analysis of habits and attitudes of readers which improve skills development in students.
- Analysis of strategies for development of LKT (Learning and Knowledge Technologies).

RESEARCH GROUP LEADER: DOLORES MADRID VIVAR
PAI CODE: HUM205

CONTACT
PHONE: 952 134 101 | FAX: 952 132 626
E-MAIL: lmadrid@uma.es | WEB: http://www.hum205.uma.es
ADDRESS: Dpto. Didáctica y Organización Escolar. Facultad de Ciencias de la Educación. Campus Teatinos, s/n. 29071- Málaga
SOCIAL PSYCHOLOGY AND THE CHALLENGES OF 21ST CENTURY

INTRODUCTION

The PSY21 group is interested in different areas of social sciences in general and social psychology in particular, especially for some of the most relevant social phenomena of the beginnings of the 21st century. His years of experience has permitted increase the respect and promote different research interests under the umbrella of Social Psychology and Environmental Psychology.

RESEARCH TOPICS

- Ecological attitudes and behavior; attachment to the place.
- Environmental communication and climate change.
- Environment and health. Restorative effects.
- Environmental volunteering. Social volunteering; social participation.
- Causal attributions of poverty; intervention in groups at risk of exclusion; belief in a righteous world.
- Aggressive behavior in adults; perception of violence against women.
- Cults and sects; coercive persuasion and attitude change; psychological abuse strategies in interpersonal and group contexts.
- Emotional intelligence and burnout in high school teachers; mobbing, cyberbullying, grooming and sexting.
- Tourism: attitudes, perceptions and motivations of residents and tourists.

SCIENTIFIC-TECHNICAL SERVICES

- Quality of life studies.
- Design education campaigns and environmental communication.
- Energy conservation Programs in public and private sector.
- Impact of tourism studies. Opinions, satisfaction, and loyalty of tourists towards the destination of the Costa del Sol.
- New technologies from the perspective of users: usability, privacy, and security.

RESEARCH GROUP LEADER: Mª DEL PILAR MORENO JIMENEZ
PAI CODE: HUM207

CONTACT
PHONE: 952 131 095
E-MAIL: mpilar@uma.es  |WEB:  https://www.uma.es/desafios-del-siglo-21/cms/menu/lineas-de-investigacion/
INTRODUCTION

The research group English Literature from Malaga is specialised in the study of Shakespeare’s works, the theatre of his time and contemporary British fiction. Some of their members have also focused their research on the study of film and television adaptations of literary texts. Additionally, their 7 researchers analyse the influence of British authors in contemporary society. As an example of the use of English literature nowadays, an increasing number of training companies employ Shakespeare and other writers’ works in coaching and marketing courses.

RESEARCH TOPICS

- Contemporary British fiction.
- English literature and cinema.
- Shakespeare and the English Renaissance drama.
- Multiculturalism in British literature and culture.
- Gender studies.

SCIENTIFIC-TECHNICAL SERVICES

- Studies on Shakespeare and/in contemporary culture.
- Studies on contemporary British fiction.
- Studies on film and television adaptations of English literary texts.
- Multicultural studies related to British literature and culture.
- Consultancy on coaching and marketing course making use of Shakespeare’s works.
- Translations of literary texts.

RESEARCH GROUP LEADER: JOSÉ RAMÓN DÍAZ FERNÁNDEZ
PAI CODE: HUM229

CONTACT
PHONE: 952 133 427  |  FAX: 952 133 438
E-MAIL: jrdiazfernan@uma.es / jrdiazfernan@gmail.com
ADDRESS: Dpto. Filología Inglesa, Francesa y Alemana. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

“Literature and Criticism in Andalusia: Unpublished Texts and Re-readings” (ANLIT-C in its Spanish acronym) is a research group focused on the southern-Spanish region of Andalusia which understand Literature as a way of culture, and Literary Studies as a critical tool to access knowledge. Its main goal is to valorise bibliographical and documentary collections made up of critical and creative works which are based in Andalusia. The aim is to make them public in order to enrich the Andalusian bibliographical patrimony, the Spanish literary panorama in all its periods and genres, and the critical perspectives involved in historiographical process to fix the literary canon.

RESEARCH TOPICS

- Unpublished or unknown texts related to Andalusia with special value for literary patrimony.
- Unpublished documents linked to Andalusia with special interest to Literature Historiography, Literary Criticism, and the canon review.
- Spanish Literature from the 16th to the 21st centuries (related to Andalusia).

SCIENTIFIC-TECHNICAL SERVICES

- Literary and Historiographical unpublished texts related to Andalusia: location, recovery, description, edition, study, and dissemination of its outcomings.
- Elaboration of inventories and scientific and patrimonial valuation of Andalusian bibliographic and documental collections (libraries and archives) which special literary interest for institutions and individuals.
- Critical review of the Spanish Literature from the 16th to the 21st centuries (related to Andalusia).
- Documentary tasks for the media, and the Cultural and Creative Industries.
- Design of cultural contents made for public and private institutions.
- Workshops and informal seminars directed towards educational innovation programs.
- Ortotypography work for oral and written texts as well as for dissertations.

RESEARCH GROUP LEADER: BELÉN MOLINA HUETE
PAI CODE: HUM233

CONTACT
PHONE: 952 131 764
E-MAIL: mbmolina@uma.es
ADDRESS: Dpto. Filología Española, Italiana, Románica, Teoría de la Literatura y Literatura Comparada. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

Research group located in the department of Medieval History of the Faculty of Humanities of the University of Malaga. Its research deals with the political, social and economic history of the fifteenth and sixteenth centuries, its main line of research being the history of the kingdom of Granada.

RESEARCH TOPICS

- History of written culture.
- Documentary sources of the Kingdom of Granada.
- Relations between Muslims and Christians.
- Recovery of the documentary heritage in Andalusia.
- Public Finances and Taxation in the fifteenth and sixteenth centuries (Crown of Castile and the Kingdom of Granada)

SCIENTIFIC-TECHNICAL SERVICES

- Studies of the political, social and economic history of the Kingdom of Granada.
- Drawing of documentary resource inventories.

RESEARCH GROUP LEADER: ANGELO GALÁN SÁNCHEZ
PAI CODE: HUM243

CONTACT
PHONE: 952 131 746 | FAX: 952 131 746
E-MAIL: agalan@uma.es
ADDRESS: Dpto. Arqueología e Historia Medieval. Facultad de Filosofía y Letras. Teatinos. 29071. Málaga
INTRODUCTION

This multidisciplinary group of the Department of School Organization and Didactics works closely with a number of different universities both in Spain and abroad. Diversity culture and school research group is working on Roma Project Educatve Project, a public school project with the following aims: educative equity, learning competence is in each and every person, social knowledge construction through research-based projects, cooperative projects in heterogeneous groups, classrooms as living and learning communities (democracy in classrooms), and diversity as a value in itself, not a problem.

RESEARCH TOPICS

- The Roma Project, values education project.
- Teachers training and Cooperative Formative Action Research.
- Intercultural education.
- Quality of life and educating cities. Education of values.
- University and cultural diversity.
- Construction of the curriculum through research projects.

SCIENTIFIC-TECHNICAL SERVICES

- The study and development of programs to promote inclusion in schools and in society.
- Teachers training (all levels) in research-based projects methodology.
- Guides to museums adapted for the impaired.
- Assessment of social and educational inclusion.
- Collaboration with non-profit organizations (NGOs), associations of parents of children with problems, and discriminated groups towards social inclusion and promotion of the diversity culture.

RESEARCH GROUP LEADER: MIGUEL LOPEZ MELERO
PAI CODE: HUM246

CONTACT
PHONE: 952 131 096 | FAX: 952 131 460
E-MAIL: melero@uma.es
ADDRESS: Dpto. Didáctica y Organización Escolar. Facultad de Ciencias de la Educación. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group specializes in the development of educational software. The programs cover, among others, such topics like text analysis and the creation of didactic material (brain teasers, question and answer, audio-visual games, etc.). Further activities of the group include comparative studies of the language used among pupils in Malaga and the written language of fairy-tales, with the objective to introduce new vocabulary in class and to discover deficiencies in the basic vocabulary of the children.

RESEARCH TOPICS

- Development of educational software.
- Texts, reading, readers: Readability of a varchar(800), comprehensibility of the text and the competence of the reader.
- General ideas and workflow in education related to a multi-lingual, intercultural environment and bi-lingual education.
- Basic infant vocabulary of children in Malaga and their distinct dialects.
- Selection of an exemplary language model and the corresponding grammar as standard for teaching in pre-school, first grade and secondary education.

SCIENTIFIC-TECHNICAL SERVICES

- Advice for the design and the development of educational software.
- Publishing of educational software.
- Objective literature reviews through software channels.
- Advice for the teaching of Spanish in multi-lingual environments.
- Trainings in:
  - Development of educative materials.
  - The teaching of Spanish.
  - Promotion of reading.

RESEARCH GROUP LEADER: INMACULADA CLOTILDE SANTOS DÍAZ
PAI CODE: HUM253

CONTACT
PHONE: 952 132 599
E-MAIL: santosdiaz@uma.es
ADDRESS: Dpto. Didáctica de la Lengua y la Literatura. Facultad de Ciencias de la Educación. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group is made up of researchers of: Psychology, Linguistics, Philosophy and Logic. Their main line of work is to study knowledge in an interdisciplinary way, this is done by analyzing non-human knowledge (machinery and animals), and the human knowledge.

RESEARCH TOPICS

- Cognitive Psychology.
- Cognitive Linguistics.
- Philosophy of mind.
- Logic for Artificial Intelligence.
- Research in Cognitive Science:
  - Philosophical logic.
  - Psychological.
  - Computational.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice on neuropsychological evaluation and rehabilitation.
- Adaptation of software for teaching theoretical-practice.
- Analysis of reading and writing abilities of pupils with hearing disorders.
- Psychology and neuropsychology study of numerical and mathematical abilities.
- Frustration analysis in sports.
- Learning and the development of mental training in sportspeople.
- Theories of mental representation.
- Development techniques for mental representations.
- Logic for Artificial Intelligence.

RESEARCH GROUP LEADER: ANTONIO JAVIER DIEGUEZ LUCENA
PAI CODE: HUM264

CONTACT
PHONE: 952 131 815 | FAX: 952 137 589
E-MAIL: dieguez@uma.es | WEB: http://webpersonal.uma.es/~DIEGUEZ/inicio.html
ADDRESS: Dpto. Filosofía. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The TIEDPAAN-MÁLAGA research group is part of the department of Art History of the Faculty of Humanities of the University of Malaga. Its research work mostly deals with the study of the historic-artistic heritage, mainly of the real estate and artistic works of Malaga and Andalusia.

RESEARCH TOPICS

- Historical and artistic heritage of Malaga and Andalusia.
- Hispano-American Art.
- Iconography and Iconology.
- Computer techniques applied to the study of the historic and artistic heritage.

SCIENTIFIC-TECHNICAL SERVICES

- Drawing of inventories and artistic catalogues.
- Projects for the value enhancement of collections of plastic works of art.
- Organisation of art exhibitions.

RESEARCH GROUP LEADER: DOLORES REYES ESCALERA PEREZ
PAI CODE: HUM283

CONTACT
PHONE: 952 131 731 | FAX: 952 133 441
E-MAIL: drescalera@uma.es
INTRODUCTION

The research group History and Computer Science specializes in the study of relationships between information technologies and communication technologies (ICT) and history. They analyse the advantages of using new technologies compared to the use of rudimentary techniques. One of their works is the comparison of demographic statistics and the working population statistics comparative to education statistics. The work of these researchers may be of interest to companies wishing to develop multimedia software of an historical kind, as well as the updating of bibliographic databases, the comparison between past and present maps etc.

RESEARCH TOPICS

- Integrate computer resources in historical research.
- History and documents.
- Help for researchers in means to obtain specific objectives.
- Computerisation of archives.
- Database maintenance.
- Advance new research techniques. Computerisation of archives.

SCIENTIFIC-TECHNICAL SERVICES

- The search for bibliographic resources and documentaries for historical research.
- Advice on sources and documentary resources as in the context of contemporary societies.
- Database maintenance pertaining to history.

RESEARCH GROUP LEADER: EMILIO ORTEGA BERENGUER
PAI CODE: HUM297

CONTACT
PHONE: 952 131 825 | FAX: 952 131 465
E-MAIL: emilio@uma.es
ADDRESS: Dpto. Historia Moderna y Contemporánea. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The HUM-300 group focuses on research and evaluation of psychological and social intervention programs. The group has been in its history for more than 20 years, where it has investigated programs in the health services, addiction intervention programs and Proyecto Hombre, assessment of interventions for morbid obesity, integration of people with schizophrenia in radio programs ("Breaking Barriers"), assessment of institutional programs for the social integration of people with disabilities, psychological well-being programs, prevention of abuse, psychological intervention with abusers, interventions in gender equality, etc. In addition, the team members are Doctors of Psychology and Specialist Clinical Psychologists, involved in psychological intervention, with a long history of psychological treatment and individual and group clinical practice.

RESEARCH TOPICS

- Evaluation of mental health services and programs.
- Psychological well-being and mental health.
- Application of technologies to psychological health.

SCIENTIFIC-TECHNICAL SERVICES

- Evaluation of social and mental health programs.
- Psychological guidance/assistance.
- Programs for social integration.
- Promotion of psychological well-being.
- Adaptation of technologies to psychological well-being and health.
INTRODUCTION

This research group of the Department of English, French and German Philology of the University of Malaga works on the role of women in American literature. It currently specializes in the study of American women dramatists. The group is formed by 7 persons (5 of them with a PhD), who have published extensively on American literature.

RESEARCH TOPICS

- Women's theater in the United States.
- The representation of domestic violence in American theater.
- Woman in US Literature.

SCIENTIFIC-TECHNICAL SERVICES

- Study of the contribution of women dramatists to the American theater.
- Study of violence in plays by American women playwrights.
- Courses on American theater, in particular on women in the theater.
- Organization of conferences on women in the theater.
- The organization of conferences on American Theatre and Drama.

RESEARCH GROUP LEADER: MIRIAM LÓPEZ RODRÍGUEZ
PAI CODE: HUM302

CONTACT
PHONE: 951 953 183 | FAX: 952 131 843
E-MAIL: miriam@uma.es | WEB: http://www.aehm.uma.es
ADDRESS: Dpto. Filología Inglesa, Francesa y Alemana. Facultad de Filosofía y Letras. Campus de Teatinos, s/n. 29071- Málaga
INTERDISCIPLINARY GROUP MALAGA MODERNA

INTRODUCTION

A research group located in the department of Modern and Contemporary History (Area of Modern History) of the Faculty of Humanities of the University of Malaga. Its main research lines deal with the history and society of the sixteenth-seventeenth centuries.

RESEARCH TOPICS

- Recovery of the historical and cartographic heritage of the Kingdom of Granada.
- Social relations and transformations in the sixteenth and seventeenth centuries:
  - Social networks.
  - Minorities and Marginal Peoples.
  - Municipal Power.
  - Collective religiousness and mentalities.

SCIENTIFIC-TECHNICAL SERVICES

- Assessment of historical-archaeological complexes for restoration projects.
- Projects for the design, assembly and organisation of a municipal documentation system.
- Elaboration of genealogical studies.

RESEARCH GROUP LEADER: JUAN JESÚS BRAVO CARO
PAI CODE: HUM309

CONTACT
PHONE: 952 131 721 | FAX: 952 131 465
E-MAIL: jjbravo@uma.es
ADDRESS: Dpto. Historia Moderna y Contemporánea. Facultad de Filosofía y Letras. Teatinos. 29071. Málaga
EVALUATION AND INNOVATION IN EDUCATION IN ANDALUSIA

INTRODUCTION

The research group Evaluation and Innovation in education in Andalusia consists of 20 research members. Academic work is focussed on the evaluation of the educational system in Andalusia with the goal to define improvements and to implement new sources of educational value. These sources include new technologies, ecology and bilingualism. Furthermore, the group is specialized in the improvement of the teaching staff regarding topics like digital alphabetisation, information and communication technologies (ICT) or new challenges in education as asked for by today's society.

RESEARCH TOPICS

- Curriculum
- Teaching.
- Learning.
- Teaching staff.
- Educational innovation.
- Educational evaluation.
- Online training.
- New technologies applied in the field of education.

SCIENTIFIC-TECHNICAL SERVICES

- Supporting directives for the development of the education program in Andalusia.
- Advice for the training of personnel.
- Group dynamics and learning communities.
- Design and evaluation of programs for training, innovation and improvement.
- The pedagogical use of ICTs.
- Addressing and training of school level, business and corporate environments in the matter of gender-related conflict management.

RESEARCH GROUP LEADER: ENCARNACIÓN SOTO GOMEZ
PAI CODE: HUM311

CONTACT
PHONE: 952 131 069  |  FAX:  952 131 460
E-MAIL: esoto@uma.es
ADDRESS: Dpto. Didáctica y Organización Escolar. Facultad de Ciencias de la Educación. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

MHNH consist of researchers on Greek Philology. Their expertise areas are developed in different topics: Translation Studies, Mythology, Religion and Greek Literature, Plutarch Studies, Ancient Magic and Astrology, Ancient Music, Eroticism and Gender Studies, among many others. In addition to the individual publications (monographs, translations, and articles), HERMES publishes two journals: Ploutarchos N.S., devoted to Plutarch, and MHNH, focused on Ancient Magic and Astrology.

RESEARCH TOPICS

- Greek astrology. Platonic mysticism.
- Plutarch. Ethics, biography and reception.
- Greek Religion and Mythology.
- Gender Studies.
- Archaic, Classic and Hellenistic Greek Literature.
- Greek Epigraphy.
- Ancient Music.
- Greek Tragedy.

SCIENTIFIC-TECHNICAL SERVICES

- Advice about touristic concerns about ancient cultures.
- Advisor for theatre-related activities.
- Publications of translations from Greek authors into Spanish.
- Organization of scientific activities.
- Public events about Greek culture aimed at educational and cultural centres:
  - Debates.
  - Theatre performances.

RESEARCH GROUP LEADER: MARTA GONZÁLEZ GONZÁLEZ
PAI CODE: HUM312

CONTACT
PHONE: 952 131 809 | FAX: 952 131 838
E-MAIL: martagzlez@uma.es | WEB: https://www.uma.es/hermes/
ADDRESS: Dpto. Filosofía Griega, Estudios Árabes, Lingüística y Documentación. Facultad de Filosofía y Letras. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group is specialized in the study of didactics in experimental sciences; thus research is focused on the learning behaviour of students in the sciences. Furthermore, the members of the research staff have a strong experience in design and development of educative tools, like didactic modules and books, used by teachers and students alike.

RESEARCH TOPICS

- Improvement of the understanding of students regarding basic scientific concepts.
- Concepts for current and future teaching staff about science and technology and the teaching and learning of those.
- Training of scientific teaching staff in primary and secondary education.
- Design of teaching material and their implementation in class.
- Science, technology and society as focus for general and scientific education.

SCIENTIFIC-TECHNICAL SERVICES

- Analysis, supervision and evaluation of the adaptation processes in the sciences regarding the European Higher Education Area.
- Planning of didactic modules.
- Scientific-didactic training of teaching staff.
- Focus on science, technology and society in the teaching of sciences.
- Promotion of scientific competence in compulsory education (10-16 years).

RESEARCH GROUP LEADER: ANTONIO LUIS ORTIZ VILLAREJO
PAI CODE: HUM324

CONTACT
PHONE: 952 132 433
E-MAIL: alortiz@uma.es
ADDRESS: Dpto. Didáctica de las Matemáticas, Ciencias Sociales y Ciencias Experimentales. Facultad de Ciencias de la Educación. Campus de Teatinos, s/n. 29071- Málaga
ANDALUSIAN HISTORICAL RESEARCH

INTRODUCTION

This interdisciplinary research group specializes in the study of politics, mentalities, cultural forms and gender roles in Andalusia, Spain and Latin America during the XIX-XX centuries. Much of the team’s work focuses on the retrieval and analysis of sources and materials, with a comparative perspective, in order to disseminate the knowledge of contemporary societies in Andalusia, Spain and Latin America.

RESEARCH TOPICS

• Redefinition of the Andalusian identity taking into account general, social, cultural, political and economical factors contributing to differences and inequality.
• Research about Mediterranean cultures and their social, political and cultural customs.
• Recovery of material and sources for the investigation of public sphere, day-to-day life and private spaces.
• Research of gender studies from an interdisciplinary perspective.

SCIENTIFIC-TECHNICAL SERVICES

• Registration and cataloging of documentary sources: archival, hemerographic and oral.
• Creation of historical, social references and cultural references.
• Advisor for the (print) media, administration public and private companies in historic and sociologic concerns.
• Advisor for the tourism industry in order to emphasise the Andalusian history.
• Training in equality policies.
• Organization and translation services of congresses and courses.
• Advice to NGDOs with a gender perspective.
• Collaboration with women’s associations and feminist entities at the national and international levels.
• Collaboration with historic memory organizations.

RESEARCH GROUP LEADER: MARIA DOLORES RAMOS PALOMO
PAI CODE: HUM331

CONTACT
PHONE: 952 131 724 | FAX: 952 131 465
E-MAIL: mdramos@uma.es | WEB: http://www.uma.es/grupo-de-investigaciones-historicas-andaluzas/
ADDRESS: Dpto. Historia Moderna y Contemporánea. Facultad de Filosofía y Letras. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group History of Andalusia - Crisol malaguide (Melting pot Malaga) of the Faculty of Philosophy and Letters focuses its studies on the religiousness in Malaga and Malaga province, the analysis of the gender perspective and politics. The group consists of 15 researchers with profound experience from numerous research projects and many publications. Currently, research is focused on the study of convents in and around Malaga. Due to the amount of the ascertained information, various organisms, which are related to religiousness and gender perspective, are becoming interested in these studies.

RESEARCH TOPICS

- History of Andalusia.
- History of Malaga and Melilla.
- Society
- Church.
- Women.
- Independence war.
- The military.
- Edition and study of the sources of the diocese Malaga and its involvement in the Andalusian and iberoamerican society.

SCIENTIFIC-TECHNICAL SERVICES

- Advisor to tourism companies about new guides and routes featuring historic episodes from Andalusia.
- Digitalization of archives.
- Training courses on gender equality.
- Organization of congresses, day-events, seminars and summer classes about the history of Andalusia.

RESEARCH GROUP LEADER: CRISTIAN CERON TORREBLANCA
PAI CODE: HUM333

CONTACT
PHONE: 952 136 642 | FAX: 952 131 465
E-MAIL: cristianm@uma.es
ADDRESS: Dpto. Historia Moderna y Contemporánea. Facultad de Filosofía y Letras. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group is part of the department of Historical Sciences of the Faculty of Humanities of the University of Malaga, and it has a long curriculum in archaeological research. It has collaborated in archaeological research projects, as well as in the specific consultancy on museum matters.

RESEARCH TOPICS

- Architecture, town planning, construction techniques and Roman era communication routes.
- Sculpture in the round and decorative reliefs.
- Roman ceramics: workshops, analysis and marketing.
- Latin epigraphy and study of its stone and metal supports.
- Ancient Spanish numismatics, with special reference to Punic and Roman coinage of southern Spain.

SCIENTIFIC-TECHNICAL SERVICES

- Archaeological research in general, and services related to research lines.
- Revision and documentation for the classification of archaeological monuments.
- Projects for archaeological museums: cataloguing of materials.
- Study and conservation of heritage.

CONTACT

PHONE: 952 131 740 | FAX: 952 132 139
E-MAIL: roliva@uma.es
INTRODUCTION

This multidisciplinary team has more than 20 years of experience, and focuses its study on the detection, evaluation and intervention of neurodevelopmental disorders, advising on the diagnosis and design of individualized psychoeducational programs with a multimodal intervention (pharmacological and psychoeducational). The purpose of the group is to know the impact of neurodevelopmental disorders at school, and to promote specific measures and guidelines to improve the quality of life of children and the educational response of students with Specific Educational Support Needs.

RESEARCH TOPICS

- Assessment and intervention in Neurodevelopmental Disorders: Attention Deficit Hyperactivity Disorder (ADHD), Specific Learning Difficulties in Reading, Writing and Mathematics - dyslexia, dysgraphia, dyscalculia.
- Neurocognitive profiles in the diagnosis of Attention Deficit Hyperactivity Disorder.
- Disability and University.
- Active Literate Family Environment (AFA).
- Artificial Intelligence (AI) and detection in neurodevelopmental disorders.
- Psychopedagogical measures at school in children and adolescents with Neurodevelopmental Disorders.

SCIENTIFIC-TECHNICAL SERVICES

- Assessment and intervention in Neurodevelopmental Disorders: Attention Deficit Hyperactivity Disorder (ADHD), Specific Learning Difficulties in Reading, Writing and Mathematics.
- Teacher training on guidelines and measures for students with Specific Educational Support Needs (SEN).
- Counseling for relatives of children with neurodevelopmental disorders.
- Neuropsychopedagogical guidance to children with neurodevelopmental disorders.
INTRODUCTION

The research group Moral and political philosophy, in the Department of Philosophy at University of Malaga has an extensive research curriculum in areas such as ethics and moral education. This research group work closely with other Latin American and Spanish scientists.

RESEARCH TOPICS

- Moral and political education.
- Civil culture in liberal societies.
- Democratic citizenship and immigration.
- Human rights and multiculturalism.
- Pluralism and liberal thought.
- Nationalism.
- History of moral and political thought.
- Rhetoric and politics.
- Democratic theory.

SCIENTIFIC-TECHNICAL SERVICES

- Research on: Democracy, nationalism, civil society, politics, citizenship and ethics.
- Advice given on citizen education.
- Advice given on gender equality and opportunities.
- Primary and secondary school teacher training in education for citizens.
- Virtual courseware on their research topics.
- Citizen and democracy conferences.

RESEARCH GROUP LEADER: MANUEL TOSCANO MÉNDEZ
PAI CODE: HUM350

CONTACT
PHONE: 952 131 813  |  FAX: 952 137 589
E-MAIL: mtoscano@uma.es
ADDRESS: Dpto. Filosofía. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

Research group formed by researchers linked to education, orientation, social education, art, psychology, pedagogy, the company, the economy, the sciences of communication and the sciences of the health. This multidisciplinary propitiates the approach from different perspectives and from the specialization.

RESEARCH TOPICS

- Academic, personal and professional training in formal and non-formal fields aimed at all educational levels, entities and companies. Organizational mentoring.
- Professional Training, Dual Professional Training and Employment Training.
- Training for the improvement of coexistence, mediation and conflict management and resolution.
- Employability. Areas of professionalism and emerging labor sectors. Digitization.
- Professional competences. Professional qualification and certification of professionalism.
- Entrepreneurship: social, educational, rural, cultural, productive, digital. Social economy.
- Inclusion educational, social, labor. Innovation and socio-educational and labor transformation.
- Health promotion and healthy organizations.
- Rural development, rural and business cooperativism, corporate social responsibility and SDG.

SCIENTIFIC-TECHNICAL SERVICES

- Strategies, resources and dynamics to improve employability and manage the entrepreneurship.
- Training in new technologies, digital skills, gamification, videogames and serious games.
- Conflict resolution and mediation in social, educational and labor contexts.
- Plans, programs, teaching resources and attention to diversity and inclusion.
- Artistic, cultural, musical and museum initiatives linked to education, cultural heritage, social commitment, innovative transfer of art. and the development of artistic talent.
INTRODUCTION

This interdisciplinary research group consists mainly of professionals in psychology, pedagogy and psychopedagogy. Their research is related to the implementation and evaluation of resources and methods in the investigation and innovation of education. This research can be of interest to both public administrations related to education, as for businesses that may require the need to evaluate the training needs of their current and future employees.

RESEARCH TOPICS

- Assessment of educational innovation.
- Standards and quality indicators.
- Quality evaluation.
- Psycho-pedagogy diagnosis.
- Assessment of educational programs.
- Educational and vocational guidance.

SCIENTIFIC-TECHNICAL SERVICES

- Advice, creation and implementation of Educational Innovation Projects.
- Assessment of training needs in centers and businesses.
- Quality appraisal of educational institutions, schools and in training.
- Competence appraisals.
- Advice about the research topics.
- Educational programs and systems evaluation.
- Standards development for educational policies and programs evaluation.
INTRODUCTION

This research group Advice on school violence and stress prevention is formed by psychologists and psychopedagogue who have great experience in the analysis of stress and violence in adolescents and children. At present, this group is studying influential elements in violence and negative behaviours in students.

RESEARCH TOPICS

- Research of elements that mediate negative consequences in rejection and school violence:
  - Everyday stress.
- Psycho-educational intervention in the education of friendship.
- Assessment of adolescent and infant stress.
- Prevention of violence and aggressiveness in primary and secondary education.
- Stereotypes about old age in elderly people.
- Psychoeducational intervention in the prevention of gender violence.
- University orientation and dropout prevention.

SCIENTIFIC-TECHNICAL SERVICES

- Advice on the vulnerability to stress in children.
- Advice on gender mainstreaming in companies and public administrations.
- Advice on teaching strategies related to our lines of research.
- Teacher training in improving the coexistence and the prevention of school violence:
  - Public schools.
  - Public administrations.
  - Training companies.
- Training of high school students in school mediation.

RESEARCH GROUP LEADER: Mª LUISA DE LA MORENA FERNÁNDEZ
PAI CODE: HUM378

CONTACT
PHONE: 951 510 434 | FAX: 952 132 635
E-MAIL: morena@uma.es
ADDRESS: Dpto. Psicología Evolutiva y de la Educación. Facultad de Psicología. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group has over 30 years of experience studying and researching the history of education in Andalusia in Spain. One of its main lines of work is the study of the public history of education, bringing it closer to all audiences and contexts, museums, libraries and associations, in addition to educational institutions. This team has studied the existing educational legislation, as well as public and private education in Spain from 1812 to the present. The study of the effects of educational reforms, in an international context, is one of the research areas of this group.

RESEARCH TOPICS

- Public history of education.
- The history of education in Andalusia.
- Women's education and work.
- Politics and education legislation.
- Education in Andalusia from the Spanish and European perspective.
- Material culture of education.

SCIENTIFIC-TECHNICAL SERVICES

- Design of teaching resources for museum spaces or spaces of historical-educational interest.
- Advice on the location and classification of documentary, iconographic, material and bibliographic sources, for the study of the history of education.
- Scientific advice on cultural activities (exhibitions, lectures, conferences) related to the History of Education.
- Organization of activities (congresses, round tables, conferences...) that address educational policies and reforms.
- Loan of historical-educational material for carrying out educational activities.
- Advice to educational institutions and the administration for the recovery of historical-educational memory.

RESEARCH GROUP LEADER: M. CARMEN SANCHIDRIÁN BLANCO
PAI CODE: HUM387

CONTACT
PHONE: 952 131 084 | FAX: 952 132 575
E-MAIL: sanchidrian@uma.es
ADDRESS: Dpto. Teoría e Historia de la Educación. Facultad de Ciencias de la Educación. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group produces the oral corpus of the city of Malaga. From its study, a realistic image of the linguistic city is obtained and the patterns of use of the Malaga linguistic variety are compared with the spoken language of other Spanish and Latin American cities (studies of social dialectology, sociophonetic, morphosyntactic, pragmatic variation). Likewise, the urban variation patterns of Malaga are compared with those of different European speaking communities. In addition, studies are carried out on the lexicon available in Malaga with educational applications from sociolinguistic perspectives. In recent years, a pioneering line of research has been generated on studies of lexical centrality whose objective is the construction of community conceptual categories aimed at detecting gaps or perceptive distortions that, to a greater or lesser extent, may be affecting certain social groups.

RESEARCH TOPICS

- Sociolinguistics and sociophonetics.
- Social Network.
- Corpus Linguistics.
- Analysis of speech and conversation.
- Cognitive Processes.
- Terminology. Lexicon resources and linguistic variation.
- Studies of lexical centrality.

SCIENTIFIC-TECHNICAL SERVICES

- Applications of the available lexicon in the teachings of mother tongue and foreign languages.
- Studies on: Corpus linguistics, dialectal variation, sociolinguistics and communicative difficulties arising from different accesses to culture.
- Analysis of regional dialects and social varieties of Spanish.
- Organisation of conferences and events on the linguistic variations throughout Europe.
- Advising on dubbing and subtitling in the film industry.

RESEARCH GROUP LEADER: ANTONIO MANUEL ÁVILA MUÑOZ
PAI CODE: HUM392

CONTACT
PHONE: 952 133 406/423 | FAX: 952 131 838
E-MAIL: vum@uma.es | WEB: https://www.uma.es/grupo-de-investigacion-vernaculo-urbano-malagueño-hum-392/
ADDRESS: Dpto. Filología Griega, Estudios Árabes, Lingüística General y Documentación. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
HISTORIOGRAPHY STUDIES

INTRODUCTION

Research group of the Faculty of Philosophy and Letters specializes in the study of identities. In addition, this team conducts gender studies through the analysis of the great epics of the world. The group integrates lines of research dedicated to ancient geography, Phoenician-Punic civilization, the impact of natural disasters such as earthquakes and tsunamis in ancient societies in long-term perspective, and models of globalization in the ancient world, particularly around the change of Era.

RESEARCH TOPICS

- Antique historiography.
- Modern historiography in the Ancient World.
- Classical Tradition.
- Mythology and Religion.
- Antigua Geography.
- Ancient History of the Iberian Peninsula.
- Gender Studies.
- Studies of Ancient India.
- Natural disasters in Antiquity.
- The first great globalization of the Eurasian Continent at the beginning of the change of Era.

SCIENTIFIC-TECHNICAL SERVICES

- Technical Advice in historical documentaries and archaeological sites.
- Cataloguing and literary studies related to Ancient History.
- Advice given to institutions and cultural industries: museums, archeological sites routes and tourist routes.
- Advice given on multiculturalism issues.
- Educational innovation projects related to the teaching and learning of ancient History.

RESEARCH GROUP LEADER: FERNANDO WULFF ALONSO
PAI CODE: HUM394

CONTACT
PHONE: 952 131 743  |  FAX: 952 132 139
E-MAIL: wulff@uma.es
ADDRESS: Dpto. Ciencias y Técnicas Historiográficas, Historia Antigua y Prehistoria. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group specialises in descriptive and comparative translation studies, primarily focusing on the relationship between the different Mediterranean languages and the role adopted by the translators and interpreters within this sphere.

RESEARCH TOPICS

- Translation, Interpretation and Intercultural Relations.
- Translators and Interpreters within intra-Mediterranean Communication.
- Diasporas and Interculturalism.
- Analysis for Translating and Interpreting.
- Didactics of Translation and Interpretation.
- Stylistics and Translation.
- Theatrical Translation.

SCIENTIFIC-TECHNICAL SERVICES

- Translation and interpretation services.
- Issuance of professional reports on translations and interpretations.
- Study of student mobility between universities.
- Comparative studies of textual conventions in European languages.
- Advice for the professional practice of translation and interpretation.
- Training of translators and interpreters.
- Translation of texts specialised in tourism.
- Organisation of meetings that cover research areas. Comparative studies of textual conventions in European languages.

RESEARCH GROUP LEADER: SALVADOR PEÑA MARTIN
PAI CODE: HUM412

CONTACT
PHONE: 952 133 408 | FAX: 952 133 419
E-MAIL: spena@uma.es
ADDRESS: Dpto. Traducción e Interpretación. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071 - Málaga
INTRODUCTION

The research group History of Philosophy in Andalusia of the Faculty of Philosophy and Letters is specialized in the interpretation of the works of Nietzsche and Gadamer. The studies concentrate on the analysis of philosophical, legal and literary aspects of these European authors. Currently the research members are working on the translation and publication of the complete work of Friedrich Nietzsche. The University of Malaga hosts the 'Sociedad Española de Estudios sobre Friedrich Nietzsche' (http://www.uma.es/nietzsche-seden) who publishes the journal 'Estudios Nietzsche' (http://www.estudiosnietzsche.org/). In addition, research about the analysis of the work of Hans-Georg Gadamer is made public through the channel http://www.uma.es/gadamer. The result of these studies is reflected through the broad spectrum of publications and has earned the group an excellent reputation throughout Europe.

RESEARCH TOPICS

- History of philosophy in Andalusia.
- History of Spanish philosophy.
- History of Latin-American philosophy.
- The presence of Nietzsche's thoughts in Spanish philosophy.
- Interpretation theory: From Nietzsche to Gadamer.

SCIENTIFIC-TECHNICAL SERVICES

- Bibliographic archives about work and mindset of Nietzsche.
- Organization of conferences about Nietzsche.

RESEARCH GROUP LEADER: MARCO PARMEGGIANI RUEDA
PAI CODE: HUM448

CONTACT
PHONE: 952 131 817  |  FAX: 952 137 589
E-MAIL: mparmeggiani@uma.es | WEB: http://www.uma.es/nietzsche-seden/
ADDRESS: Dpto. FilosofíaFacultad de Filosofía y Letras. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group helps to overcome the fragmentation of knowledge. Its common thread is the anthropology of the person, with a firm ontological foundation. Since it, philosophically analyses other areas such as medicine, businesses, education, psychology, etc.

RESEARCH TOPICS

- Clarification of the radical sense of being.
- Philosophical and cultural anthropology. Male and female human beings. Personalism and others in relation. Anthropology and metaphysics.
- Kiekegaardian, Heidegger and Nietzsche studies: projection of the third millennium.
- Existential structures of personal life: people, love etc.
- Psychiatry and therapy. Speech therapy and behavioral therapy. Emotional therapy.
- Education in the family and for the family. Institutionalised education.
- Psychology and anthropology of childhood and adolescence.

SCIENTIFIC-TECHNICAL SERVICES

- Analysis of the personal component in all human relationships.
- Research on work, its meaning, its constitutive dignity and its implications on the happiness of the individual.
- Advising on key business efficiency.
- Programs on research promotion and professional training in education, family counseling and couples therapy.
- Metaphysical-Anthropological research.
- Applications in guidance and counseling.

RESEARCH GROUP LEADER: TOMÁS L. MELENDO GRANADOS
PAI CODE: HUM495

CONTACT
PHONE: 952 131 821 | FAX: 952 131 299
E-MAIL: tmelendo@uma.es | WEB: http://www.metyper.com/
ADDRESS: Dpto. Filosofía. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The main interest of this research group is the study of manuscripts written in English—those composed between the 1100s and 1700s in particular. Once the codicological and linguistic studies are made, the members of the group will edit those texts to raise their awareness in society.

RESEARCH TOPICS

- Tagging of manuscripts written in English from the Middle and Early Modern periods.
- Morpho-syntactic annotation of synchronic and diachronic corpora.
- Codicology and Palaeography.
- Linguistic variation and change in English.
- Study of the new varieties of English worldwide.

SCIENTIFIC-TECHNICAL SERVICES

- Edition of manuscripts written in English.
- Codicological study of manuscripts written in English.
- Compilation of English corpora.

RESEARCH GROUP LEADER: DAVID MORENO OLALLA
PAI CODE: HUM497

CONTACT
PHONE: 951 952 243
E-MAIL: dmoreno@uma.es | WEB: http://cleft.uma.es/web/Home.html
ADDRESS: Dpto. Filología Inglesa, Francesa y Alemana. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group from the Department of Modern and Contemporary History specialises in the study of contemporary history of Spain, with special emphasis being placed on Andalusia. The researches of its components have focused mainly on political, social and cultural history, with contributions about the use of the image (graphic, photographic and cinematographic) as source for the history. Our latest work is about understanding the history of the Spanish Civil War and Spain under Franco through the oral testimonies, shaped in the edition of a book and the realization of a documentary that has been projected in the public television Andalusian and in the United States. The group has projected its work in the realization of international seminars, congresses and exhibitions.

RESEARCH TOPICS

- Politics, Society and Culture in Andalusia. (19th to 21st Century).
- Image and History. Documentaries.
- Intellectuals, identity and nationalism.
- History of journalism and the Media.
- Political and Social Changes in Southern Europe.
- Historical Memory.
- Oral History.

SCIENTIFIC-TECHNICAL SERVICES

- Studies and advice given on the recovery of historical memory.
- The cataloguing, digitalization, management and study of archives.
- Organisation of seminars, congresses and exhibitions.
- Advising museums.
- Cultural advice to municipalities.
INTRODUCTION

The research group Computer text archives of Andalusia (ARINTA), in the Department of Spanish Philology and Romance at University of Malaga, is specialized in the cataloguing, compilation, analysis, edition and critical studies of a wealth of texts from Andalusia, from 15th century to 19th century, manuscripts and printed, belonging to different textual typologies and genres. In addition, the philologists who belong to this research group perform different studies in order to reach a better understanding of the state of language and cultural level in Andalusia.

RESEARCH TOPICS

• Andalusian dialectology.
• Morphosyntax and historical pragmatics.
• Lexicology, lexicography and toponymy.
• Historioigraphy of the Spanish language.
• Historical phonetics and phonology.
• Spanish in the media in the XVIII and XIX centuries: press ad advertising.
• Spanish.
• Historic Pragmatics.
• Female writing.
• Public and Private documents.

SCIENTIFIC-TECHNICAL SERVICES

• Advice given on the computerization of archives.
• Compilation of computer records on: Legal medieval texts. Wealth of legal texts.
• Analysis of datasets of legal texts.
• Development of dictionaries related to law.
• Spanish courses for foreigners.
• Teaching of Spanish as a Foreign Language for professionals.
INTRODUCTION

This research group Physical Education and Sports. Vocational training of teaching staff of the Department of Didactics of Languages, Arts and Sport is specialized in the study, analysis and design teacher training programs and improving teaching methods. The multidisciplinary group, founded in 1997, consists currently of 10 researchers that graduated in disciplines, like physical education, primary and secondary education and also various coaches; the extensive curriculum reflects the research and teaching qualities of the team. Over the years, the group has been collaborating with various public and private administrations, interested in implementing educational programs of physical activities.

RESEARCH TOPICS

- Vocational training of the physical education teaching staff in Andalusia.
- Social reference studies on sport and physical education.
- Childhood and adolescents corporal development.
- History of physical education and sports.

SCIENTIFIC-TECHNICAL SERVICES

- Design of tools for quality evaluation of the management of community programs training in physical education in primary and secondary.
- Advisor for creation and design of equipment for the development of physical activity.

RESEARCH GROUP LEADER: ÁNGEL RAMÓN ROMANCE GARCIA
PAI CODE: HUM564

CONTACT
PHONE: 952 132 454
E-MAIL: arromance@uma.es
STYLES AND COPING STRATEGIES AND VULNERABILITY TO PAIN. INDIVIDUAL DIFFERENCES AND IMPLICATIONS FOR PSYCHOLOGICAL INTERVENTION

INTRODUCTION

This research group located in Psychology Faculty examine the different psychological aspects that affect chronic pain. Their research can be useful to pharmaceutical companies who want to be cognisant of the quality of life of patients, the psychological variables that affect them, the proper intake and its advantages over improper use and their consequences, et cetera. Additionally, these researchers work closely with the Public Agency Sanitary Costa del Sol, Fibromyalgia Association of Marbella, Chronic Fatigue Syndrome of Malaga (AFRIBROMA). They also have participated in the development of the process of “Chronic non-ontological pain” of the Regional Community of Andalusia.

RESEARCH TOPICS

• Research of the psycho-social variables involved in models for chronic pain.
• Evaluation of the mediating effects of behaviours that disable chronic pain patients.
• Research of different methods to provide the patient resources to effectively deal with the pain and reach a non chronic pain level.
• Predictive variables of prescription opioid abuse in patients with chronic non-oncologic pain: Development of a risk detection scale.

SCIENTIFIC-TECHNICAL SERVICES

• Advice given to families and patients, who suffer with chronic pain.
• Studies of psychosocial variables involved in chronic pain.
• Psychological assessments of chronic pain syndrome.
• Evaluations of public health programs.
• Appraisals of psychosocial variables in patients participating in clinical trails designed to test the effectiveness of experimental painkilling drugs or other analgesics.
• Drugs impact on quality of life and mood in patients with chronic pain.
• Psychological interventions in these patients.
• Programs to prevent postoperative pain.

RESEARCH GROUP LEADER: MARÍA ROSA ESTEVE ZARAZAGA
PAI CODE: HUM566

CONTACT
PHONE: 952 132 435  FAX: 952 131 100
E-MAIL: zarazaga@uma.es  WEB: https://psicologiadeldolor.es/
ADDRESS: Dpto. de Personalidad, Evaluación y Tratamiento Psicológico. Facultad de Psicología. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

Group of highly trained professionals committed to research and development in areas such as graphic design, visual communication, environmental design, editorial illustration, and cultural dissemination. We specialize in creating corporate identities, with our research group's objectives being to ensure excellence in design as a fundamental factor in the development of companies and institutions, to create action plans in cultural, social, and economic areas, and to promote innovation through research into visual and intangible resources in communication. Furthermore, we work with visual language to promote the transfer of knowledge and progress in social and cultural awareness.

RESEARCH TOPICS

- Strategic, graphic, and communication design in institutional and business settings.
- Design against visual pollution.
- Study and development of processes towards greater social awareness and communication of intangibles.

SCIENTIFIC-TECHNICAL SERVICES

- Graphic and communication design. Intangibles and brand strategies.
- Design, rehabilitation, or redesign of the corporate visual identity of public and private institutions requiring the use of the heraldic system.
- Creation and curating of exhibition projects in physical and virtual spaces.
- Consulting and planning of design plans applied to the graphics of signs and signage in urban environments.
- Editorial design: innovation and creation of the object book.
- Illustration for various functions and natures.
- Study, supervision, and specific actions against visual pollution in cities.
- Consulting and training in digital resources: graphics, layout, photo editing, and web.

RESEARCH GROUP LEADER: SEBASTIAN GARCIA GARRIDO
PAI CODE: HUM576

CONTACT
PHONE: 951 952 259  |  FAX: 952 131 445
E-MAIL: segar@uma.es  |  WEB: http://www.diseno.uma.es/i_diseno/
ADDRESS: Área de Dibujo-Diseño. E. U. Politécnica. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group was created with the aim of creating, within the area of social psychology, a specific line of study in the field of community psychology and around a fundamental topic such as the quality of life. Over time, other social intervention professionals have joined the research team, forming an interdisciplinary team of social workers, sociologists and social psychologists. The main interest of the researchers is to improve the quality of life. In this respect, their work is focused on the most deprived people, such as vulnerable groups of immigrants, the elderly, people with health problems or people at risk of social exclusion.

RESEARCH TOPICS

- Sense of community and Quality of life.
- Social support and quality of life in vulnerable populations.
- Quality of life and health.
- Quality of life and occupational health.
- Resilience.
- Immigration and interculturality.
- Old people.
- Social participation and empowerment.
- Social intervention from a gender perspective.
- Social Intervention and Social Services.
- Community intervention, social inequalities and social marginalization.

SCIENTIFIC-TECHNICAL SERVICES

- Studies to promote quality of life.
- Analysis of the psychosocial needs of the population of Malaga.
- Training programs for community social services.
- Training plan on quality of life in health institutions and social services.
- Studies on quality of life in cancer patients and their relatives.
- Analysis of the specific needs of vulnerable groups (immigrants, the elderly).

RESEARCH GROUP LEADER: Mª ISABEL HOMBRADOS MENDIETA
PAI CODE: HUM590

CONTACT
PHONE: 952 131 099 | FAX: 952 131 100
E-MAIL: mihombrados@uma.es | WEB: https://www.uma.es/calidad-de-vida-e-intervencion-comunitaria
ADDRESS: Dpto. Psicología Social, Antropología Social, Trabajo Social y Servicios SocialesFacultad de Psicología. Campus de Teatinos, s/n. 29071- Málaga
HISTORY OF PRESENT TIME

INTRODUCTION

The research group, History of Present Time, specializes in the study of the Present Time and Spanish Civil War, the Franco period and the Spanish Transition to democracy. This group, created in 1991, is composed of 9 researchers who have an extensive research curriculum in the field of teaching and research. This group also combines a large number of collaborations with both public administrations as with other research groups in Southern Spain. Their main objective is to study the Spanish Civil War in the province of Malaga.

RESEARCH TOPICS

- History of Present Time.
- History of the repression in the Franco period.
- History of women.
- History of international relations.
- History of Spain under Franco and the transition.
- History of Eastern countries.
- History of Latin America.

SCIENTIFIC-TECHNICAL SERVICES

- Studies related to the Franco period in Andalusia.
- Advice on the Civil War and the Franco period.
- Studies on violence and repression in the republican area during the civil war.
- Advice on the studies of emigration between Spain and Europe.
- Advice to companies wanting to promote historical tourism.
- Advice on Spanish history being adapted to theatrical works, films or documentaries.
- Training courses on women and repression.

RESEARCH GROUP LEADER: ENCARNACION BARRANQUERO TEXEIRA
PAI CODE: HUM608

CONTACT
PHONE: 952 131 720 | FAX: 952 131 465
E-MAIL: ebarranquero@uma.es
ADDRESS: Dpto. Historia Moderna y Contemporánea. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group located in the Department of School Organisation and Didactics of the Faculty of Education Science of UMA and it count also with teachers from Department of Audiovisual Communication in Faculty of Communication Sciences in UMA, and from Department of Education in University of Almeria. Also, teachers from Argentine, Mexico, Brazil and colombia are collaborators. Its main focus is the study of the school experience of students, teaching staff and parents for implement improvements in the democratic functioning of schools from the narrative analysis and biogeographical analysis. In order to develop collaborative strategies for guarantee valuable results, the group collaborates closely with schools of primary and secondary education.

RESEARCH TOPICS

- Professional culture of the teaching staff with respect to their institutional environment and their professional curriculum. Strategies for the professional change and your improvement.
- Assessment of the students and their experiences at school.
- School experience and educational community.
- Education-Communication. Communication for social Change.
- Body, Consciousness and Movement. Corporeality and Motricity in the educational context
- Communication, Corporal Expression and Creativity.

SCIENTIFIC-TECHNICAL SERVICES

- Advisor for the improvement of educational strategies.
- Advice for the construction of an educational community with the students and the families.
- Advisor for social institutions with respect to socially marginalized individuals.
- Training courses about the groups’ research topics.
- Advice to local, province mass media.

RESEARCH GROUP LEADER: ANALIA ELIZABETH LEITE MENDEZ
PAI CODE: HUM619

CONTACT
PHONE: 951 952 243 | FAX: 952 131 460
E-MAIL: aleite@uma.es  | WEB: http://procie.uma.es
ADDRESS: Dpto. Didáctica y Organización Escolar. Facultad de Ciencias de la Educación. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group Translation, Literature and Society, of the Faculty of Philosophy and Letters is specialized in the literary translation, cataloguing and analysis of the translated literary texts and, its interliterary relations from translations and comparative literature. Part of his focus is centered in the translated literature in Andalusia, in the translated texts of Andalusian writers and Andalusian translators. The research staff consists of 8 members, which are quite experienced and resourceful recovering the artistic memory from its literary original works and translated literary texts. His works allows him to know, among other things, the divulgation texts, the influences of translated literature in the evolution of Spanish literature or problems with censorship from a determined era. Further academic work centers in the retranslations of literary works associated with the contextualization of work and texts’ renovation to particular era or aesthetics. For this, the research has its applications for public administrations with catalogues or archives of works with socio-cultural interest and public-private editorial activities.

RESEARCH TOPICS

- Description of literary translations.
- Interliterary relations. Comparative literature.
- Reception, literary history, canon.
- Cataloguing of literary translations.
- Cataloguing of studies on literary translations.

SCIENTIFIC-TECHNICAL SERVICES

- Advisor to publishers, organizations, libraries and journals with respect to literary translations.
- Cataloguing of literary translations.
- Advisor to other research groups for literary translations and reception of literary translations.
- Cataloguing of studies on literary translations.

RESEARCH GROUP LEADER: FRANCISCO RUIZ NOGUERA
PAI CODE: HUM623

CONTACT
PHONE: 952 133 418 | FAX: 952 133 419
E-MAIL: faruiz@uma.es
ADDRESS: Dpto. Traducción e Interpretación. Facultad de Filosofía y Letras. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group of the Faculty of Communications Sciences was founded in 1999 and consists currently of 22 members. Among the various ongoing national and international collaborations the current academic activities are focused on one project in particular: the identification of indicators for the comparison of the developmental stage of the information society in the autonomous communities of Spain and to use these results for the definition of comparative levels on a global scale.

RESEARCH TOPICS

- Theory and history of communications and journalism. Origin and formation of the information society on a regional level: The example Andalusia.
- Communications, technology and society. History and regional structure.
- Education and communications. Convergence in the knowledge society.
- Communications and culture. Reference values from the Andalusian society.
- Communications and development. Propositions for democracy in communications.
- Education and communications. Convergence in the knowledge society.
- Analysis of international news. Communication policies in the European Union.
- Studies on the quality, credibility and trust of the contents of print and digital journalism, as well as audiovisual content.

SCIENTIFIC-TECHNICAL SERVICES

- Reports on the impact of the communications on the surroundings. Research analysis.
- Advisor for communications councils.
- Aspects of cultural management, communications and culture.
- Indicators for handling, equipment, etc.
- Training in critical media analysis.
- Organization of international congresses and workshops on communications.
- Studies comparing media used in different territories.
- Audiences and social representations in journalistic texts and the audiovisual image.

RESEARCH GROUP LEADER: JUAN ANTONIO GARCIA GALINDO
PAI CODE: HUM664

CONTACT
PHONE: 952 132 271 | FAX: 952 137 052
E-MAIL: jagarcia@uma.es | WEB: http://ecom.uma.es/
ADDRESS: Dpto. Periodismo. Facultad de Ciencias de la Comunicación. Campus Teatinos, s/n. 29071-Málaga
SOCIAL SCIENCES IN THE EDUCATIONAL PLAN FOR PRE-SCHOOL AND PRIMARY EDUCATION. INNOVATIVE DIDACTIC PROPOSAL. ANDALUSIAN CULTURE

INTRODUCTION

The research group Social sciences in the Educational Plan for Pre-school and Primary Education. Innovative didactic proposals. Andalusian culture of the Department of Didactics of Mathematics, Didactics of Social Sciences and Experimental Sciences has a strong experience of more than 10 years of research in didactics of social sciences, the role of women and the Andalusian culture. The group also counts on a profound experience about the organization of congresses and the edition of text books.

RESEARCH TOPICS

- Didactics of the Andalusian culture.
- Analysis and evaluation of the Andalusian culture focussing on the study of the cultural and social milieu and the cultural impact on:
  - Pre-school education.
  - Primary education.
  - Secondary education.
- Training of the teaching staff.

SCIENTIFIC-TECHNICAL SERVICES

- Books for pre-school, primary and secondary education about the Andalusian culture, language and mathematics.
- Advisor for the edition of text books and any other type of publication.
- Organization of congresses about the research topics.
- Development of educational games.
- Art for children.
- Children’s theatre.
- Narratives about characters or characteristic items from Andalusia.
- Training of teaching staff in didactics of the Andalusian culture and in social sciences.

RESEARCH GROUP LEADER: MARÍA DEL CARMEN MORENO MARTIN
PAI CODE: HUM689

CONTACT
PHONE: 952 132 444 | FAX: 952 132 393
E-MAIL: moremar@uma.es
CAUSAL MECHANISMS AND PREVENTION OF DEPRESSIVE AND VIOLENT BEHAVIOURS

INTRODUCTION

The research group Causal Mechanisms and Prevention of Depressive and Violent Behaviours, of the Personality, Evaluation and Psychological Treatment Department at University of Malaga specialises in the research and analysis of violent behaviours in adolescents.

RESEARCH TOPICS

- Depressive cognitive factors.
- Social behaviour roles and the lack of obtaining reinforcements in the explanation of depression.
- Identify separate areas of vulnerability to depression.
- Anomalous processes of learning that generate vulnerability to depression and therapeutic implications.
- Differential effectiveness of psychological treatment of depression.
- Study of despair and causative mechanisms for generate behaviors of interpersonal violence.

SCIENTIFIC-TECHNICAL SERVICES

- Psychological counseling for all educational centres: primary, secondary and university.
- Interventions in the prevention of school violence.
- Advice given on factors that explain depression.
- Assessment of the effectiveness of psychological treatment.
- Psychological intervention associated with violent behaviour and depression.
- Development of therapies that encourage non-aggressive behaviour.
- Training and advice given to teachers in the detection of factors that can influence depression.

RESEARCH GROUP LEADER: CARMEN RODRÍGUEZ NARANJO
PAI CODE: HUM690

CONTACT
PHONE: 952 132 520  |  FAX: 952 131 101
E-MAIL: rodriguez.naranjo@uma.es
ADDRESS: Dpto. Personalidad, Evaluación y Tratamiento Psicológico. Facultad de Psicología. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group consists of 5 historians who are specialized in the study of traditions that are associated with the origin of communities, religious ceremonies, deities etc., this is achieved through analyzing them from the point of view of a mythographic, historiographic or religious. The work of this research group might be of interest to both publishing companies and those of archaeology.

RESEARCH TOPICS

- Research of the traditions founded in the western Mediterranean during the classical era:
  - Italy.
  - Iberian Peninsula.
  - Greece.

SCIENTIFIC-TECHNICAL SERVICES

- Advice given on archeology and ancient history.
  - Publishers.
  - Companies.
  - Public administrations.
- Analysis of the relations between the Iberian Peninsula and Sicily during the antiquity.
- Research on Ancient Italy in:
  - Politics.
  - Religion.
  - Ideology.
- Congresses related to these lines of investigation.
INTRODUCTION

The research group Spanish-American Narrative Poetry: Literary Relations of the Faculty of Philosophy and Letters specialises in the research of comparative literature among Hispanic literature and Spanish or European. This interdisciplinary research group presents a humanistic instruction centered in the arts and literature, which allows them to collaborate with various universities such as, the Autonomous University of Madrid, the University of Salamanca and University of Sevilla.

RESEARCH TOPICS

- The Piedracielistas (Colombian literary movement), Juan Ramón Jimenez and the generation of 27.
- Spanish-American classical tradition and modern literary.
- Cuban poetry and the generation of 27.
- Poetry and prose from Argentina:
  - Classicism.
  - Aesthetics of monumentality.

SCIENTIFIC-TECHNICAL SERVICES

- Critical analysis of Hispanic, Spanish and European literary works.
- Cultural management.
- The cataloguing of archives, libraries and/or editorials.
- Advice given to tourism companies on the cultural heritage of Malaga.
- The popularization of science in relation to: art, literature and contemplation.
- Advice given on theatrical arts.
- Advice given to publishing companies on Hispanic, Spanish and European authors’ works.
- Training on Hispanic literature and its relations with the arts and other literature.

RESEARCH GROUP LEADER: GUADALUPE FERNANDEZ ARIZA
PAI CODE: HUM723

CONTACT
PHONE: 952 131 759 | FAX: 952 131 823
E-MAIL: mgfernandez@uma.es / guadalupe.fernandez.ariza@gmail.com
ADDRESS: Dpto. Filología Española I y Filología Románica. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTERLEXICAL

INTRODUCTION

The research group Interlexical is located in the Department of Spanish Philology 1 and Romance Philology in the Faculty of Philosophy and Letters at University of Malaga. This research group is made up of 11 members from various universities and research centers, such as the University of Sevilla, University of Jaen, University of Malaga and the Spanish National Research Council (Consejo Superior de Investigaciones Científicas CSIC). Their research is based on lexicography -the study of the origen, history, grammar, lexical analysis, et cetera, of dictionaries, along with the lexicology that analyses and classifies the lexicon. Among their research, it is the study and description of different Spanish languages dictionaries and vocabularies and Andalusian speech dictionaries and vocabularies

RESEARCH TOPICS

- Spanish lexicography and its varieties.
- Spanish lexicology and its varieties.
- History of lexicography.
- The relations between morphology and lexical semantics.
- The lexicography and lexicology in the sphere of Andalusian speech.

SCIENTIFIC-TECHNICAL SERVICES

- Advice given on the usefulness of different types of dictionaries.
- Advice on lexical repertoires of Andalusian speech.
- Advice given on:
  - The lexicon.
  - Dictionaries.
  - Vocabularies.
- The cataloguing of theoretical lexicography information.

RESEARCH GROUP LEADER: ANTONIA MARIA MEDINA GUERRA
PAI CODE: HUM758

CONTACT
PHONE: 952 131 769
E-MAIL: ammedina@uma.es
ADDRESS: Dpto. Filología Española I y Filología Románica. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group of English grammar and vocabulary studies from the synchronous, diachronic and implementation lexicographical point of view specialises in the analysis of the English language over time or its study during a specified period. At present, this research group is focused on the analysis of tourist and educational lexicon; thereupon its work may be of interest to both schools and tourism-related businesses that want to present a good profile to their foreign customers.

RESEARCH TOPICS

- The research of the English language from various approaches:
  - Synchronous.
  - Diachronic.
- Grammatical.
- Lexical.
- Lexicography.

SCIENTIFIC-TECHNICAL SERVICES

- Educational, cultural and social training activities related to our line of research.
- Advice and preparation of grammatical and lexicological studies related to the English language.
- Advice on pedagogical lexicography related to the learning of English.
- Research on methods of teaching English.
- Development of multilingual evaluation aspects of tourism language.
- Advice on the management of language teaching centre (Spanish/English).

RESEARCH GROUP LEADER: MARÍA DOLORES FERNÁNDEZ DE LA TORRE MADUEÑO
PAI CODE: HUM762

CONTACT
PHONE: 952 133 259 | FAX: 952 131 843
E-MAIL: mdfernandez@uma.es | WEB: http://www.uma.es/investigadores/gramatica_lexico/
ADDRESS: Dpto. Filología Inglesa, Francesa y Alemana. Facultad de Turismo. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This interuniversity group started the magazine Entreculturas (Between cultures) in 2008 (http://www.entreculturas.uma.es/) to contribute to the dissemination of translation studies in the Spanish language at international level.

RESEARCH TOPICS

- Communication theory.
- Translation theory.
- Didactic and professional applications to the teaching of translation and interpretation, second languages, and specialised terminology spheres.
- Medical translation (English-Spanish and French-Spanish).
- Bilingual dictionaries (specialised in Medicine and Law).
- Specialised translation handbooks and monographs.
- Adaptation of translation and interpretation studies for the European Higher Education Area (EHEA): theoretical, methodological and professional).

SCIENTIFIC-TECHNICAL SERVICES

- Specialised translations into English, French, Italian and/or Spanish.
- Development of technical reports on terminology databases.
- Teaching material for long distance learning.
- Handbooks and monographs on specialised translation.
- Specialised bilingual dictionaries:
  - Medicine.
  - Law.
- Language training for lawyers.

RESEARCH GROUP LEADER: EMILIO ORTEGA ARJONILLA
PAI CODE: HUM767

CONTACT
PHONE: 952 133 413 | FAX: 952 133 419
E-MAIL: eortega@uma.es
ADDRESS: Dpto. Traducción e Interpretación. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071 - Málaga
GEOGRAPHICAL ANALYSIS

INTRODUCTION

The research lines of the group are based on studies and applications for sustainable social and territorial development. The areas that we have done works are local development, carrying capacity and uses of rural areas, the development of urban or tourist areas and Geographic Information Technologies.

RESEARCH TOPICS

- Implementation of programs for the sustainable development.
- Evaluation and planning of the physical load capacity for agricultural uses and recreational use of natural areas. Decision tools for monitoring and control of soil degradation by erosion.
- Landscape studies; tourism and sports and recreational activities.
- Analysis of urbanization processes in rural areas. Analysis of the implementation of agroindustrial complexes.
- Spatial analysis with Geographic Information Systems; cartography and ortho-imaging with drones (unmanned aerial vehicles); applications of Space Remote Sensing.
- Geolocation application techniques for implementing activities; geographic Big-Data; application of geostatistics to territory studies.
- Design and development of tools for territorial analysis and decision.

SCIENTIFIC-TECHNICAL SERVICES

- Technical assistance in land-use planning. Studies of environmental impact, landscape and natural hazards. Territorial and urban planning.
- Socioeconomic studies for the territorial diagnosis of the urban environment and the rural environment.
- Design of geographic databases, cartographic production with GIS and Remote sensing and geographic data management for optimal geolocation and capacity of reception or load.
- Landscape studies and analysis of optimal implementation of facilities and infrastructures.

RESEARCH GROUP LEADER: FEDERICO BENJAMÍN GALACHO JIMÉNEZ

PAI CODE: HUM776

CONTACT

PHONE: 952 132 172 | FAX: 952 131 700
E-MAIL: fbgalacho@uma.es | WEB: http://analisisgeografico.uma.es/
ADDRESS: Dpto. GeografíaFacultad de Filosofía y Letras. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group of the Department of Latin Philology of the Faculty of Philosophy and Letters of the University of Malaga is specialized in the study, analysis and translation of Latin literary texts from the 15th Century. The research staff consists of highly qualified personnel trained in cataloguing archives and codices, conducting historical research as well as performing translations of archaeological pieces and medieval literary texts.

RESEARCH TOPICS

- Medieval rhetoric:
  - Predicatory arts.
  - Ars dictaminis

SCIENTIFIC-TECHNICAL SERVICES

- Translation to Spanish of all kinds of Latin texts.
- Editions of Medieval books related to the art of communication.
- Cataloguing of specialized archives, books and codices.
- Study and analysis of 15th Century texts.
- Study and analysis of the piece.
- Cataloguing of masterpieces.

RESEARCH GROUP LEADER: ANTONIO ALBERTE GONZALEZ
PAI CODE: HUM778

CONTACT
PHONE: 952 131 836  |  FAX: 952 131 835
E-MAIL: aalberte@uma.es
ADDRESS: Dpto. Filología Latina. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group of the Department of Didactics of Languages, Arts and Sport of the Faculty of Education Sciences has more than 22 years of experience in the study of physical activity and sport. Its benefits on health in general and sporting performance in particular.

RESEARCH TOPICS

• HEALTH AND FLEXIBILITY. Health programmes, improvement and maintenance of flexibility and joint mobility at any age and specifically at school age. Evaluation - Design of instruments that allow objective evaluation of the flexibility/Range of Movement of the different body joints.
• TRIATHLON: - Analysis of transitions in triathlon; their categorization. - Study and analysis of training, competition and performance in Triathlon. - Categorization of specific skills, working criteria in Schools and clubs.

SCIENTIFIC-TECHNICAL SERVICES

• Design of triathlon material for training and / or competition.
• Performance consulting in triathlon.
• Counselling on on stretching and mobility exercises and techniques.

RESEARCH GROUP LEADER: RAFAEL MERINO MARBAN
PAI CODE: HUM796

CONTACT
PHONE: 952 132 464 | FAX: 952 134 102
E-MAIL: rmerino@uma.es | WEB: https://ofertaidi.uma.es/malaca.php#gsc.tab=0
ADDRESS: Dpto. Didáctica de la Expresión Musical, Plástica y Corporal. Facultad de C. C. Educación. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group of the Department of Translation and Interpretation specializes in the digital publishing, with historical and research objectives, of books translated exempts from copyright. Furthermore, its works included perform touristic translation and translations revisions. Thus the effort of the 8 research members might very well be of interest for virtual libraries who want to publish their documents and as well for companies dedicated at publishing specialized books.

RESEARCH TOPICS

- Concept and didactics of special-purpose languages and general and specialised translation.
- Concept and didactics of specialised translation.
- Ideology and manipulation in specialized languages.
- New technologies applied in research.
- History of translation.

SCIENTIFIC-TECHNICAL SERVICES

- Digital editions of translated books:
  - Digital editing software.
  - Text revision software.
  - Digital archiving of editions.
- Translation and revision of translations of touristic documents.
- Critical reading and subsequent report.
- Training courses about investigative methodology in the history of translation and digital editing of translations.
- Virtual editions of old translations (english).
EDUCATION, ART AND LITERATURE (E-ARLIT)

INTRODUCTION

The E-Arlit group is formed by specialists in education, art, language and literature who study the teaching and learning of artistic-discursive languages, visual and audiovisual - in educational contexts. All the people who compose it, linked to the non-formal or formal teaching of the arts, have extensive experience in research works of very diverse nature. This diversity brings wealth to the group and its ability to assume academic-scientific work related to the different research lines of the group.

RESEARCH TOPICS

- The development of the artistic curriculum at different levels and educational stages.
- Artistic processes in childhood from a semiotic perspective.
- The study of the illustrated album as artistic production and teaching resource.
- The relationships between artistic languages and emotional intelligence.
- The Study of Heritage and its interpretation from Artistic Education.
- Gender and power in educational contexts.
- The role of families and the intergenerational digital divide.
- Transalphabetizations and the promotion of reading.
- Visual, multimodal and media literacy in teacher training.
- Artistic Literacy.

SCIENTIFIC-TECHNICAL SERVICES

- Advisor to educational centres about educational implications of the process of children's representation and children's identity.
- Design of didactic material:
  - Pre-school education.
  - Primary education.
  - Special education.
- Design of didactic books adapted for the handicapped.
- Organization of conferences about the research topics.

RESEARCH GROUP LEADER: ROXARIO GUTIERREZ PEREZ
PAI CODE: HUM816

CONTACT
PHONE: 952 132 459 | FAX: 952 134 102
E-MAIL: mrgutierrez@uma.es
ADDRESS: Dpto. Didáctica de la Expresión Música, Plástica y Corporal. Facultad de Ciencias de la Educación. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group Literary Theory and Studies. Critical Traditions of Hispanism is part of the Spanish Philology, Italian, Romance, Theory of Literature and Comparative Literature Department of the Faculty of Philosophy and Letters. Its experience in the studies of Hispanic texts, literary and expressive, extends over a period of more than 10 years. Special emphasis lies in the analysis of artistic and creative interculturalism and comparatism. The group, currently composed of more than 20 members,Dispose of a strong investigative background and an important list of publications as well as a great experience in the organization of training courses and congresses about literature and its relations to Andalusia; and in the study and dedication to theory of literature and comparative literature.

RESEARCH TOPICS

- Criticism traditions of expressive and literary texts in Hispanism.
- Understanding of cultural texts.
- Study of modern and contemporary Poetry.
- Theoretical-literary studies of artistic and creative interculturality.
- Theory of literature and aesthetics literature and comparative literature.
- New forms of literary comparatism in cultural, artistic and literary fields.

SCIENTIFIC-TECHNICAL SERVICES

- Communicative and expressive base of commercialization, cultural management, etc.
- Assessment and study of expressive and aesthetic resources.
- Cultural management of teaching.
- Intercultural and communicative skills.
- Preparation in the knowledge of rhetorical-literary transmission.
- Organization of linked activities and internal and external practices.

RESEARCH GROUP LEADER: ENRIQUE BAENA PEÑA
PAI CODE: HUM824

CONTACT
PHONE: 952 131 768/679 415 915 | FAX: 952 131 758
E-MAIL: ebaena@uma.es
ADDRESS: Dto. Filología Española II y Teoría de la Literatura. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group is comprised of researchers in English, French, German and Spanish Philology. At present they teach languages for special purposes, such as the language of journalism, tourism, advertising and audiovisual media, health and business.

RESEARCH TOPICS

- Sociolinguistics. Psycholinguistics.
- Language teaching and action research.
- Translation and Lexicology.
- Language and literature.
- History of Linguistics.
- Synchronic and Diachronic Linguistics.
- Comparative Linguistics and Applied Linguistics.
- English, french, german and spanish for specific purposes.
- Speech analysis.
- Language and image from the gender perspective.

SCIENTIFIC-TECHNICAL SERVICES

- General and specialized English, French, German and Spanish translations.
- Proofreaders and consultants to publishing houses, media, cultural foundations and international organisations.
- Dictionaries, glossaries and data bases.
- Indexing bibliographic sources related to applied languages.
- Gender studies.
- General and specialized courses (both classroom and online education) in English, French, German and Spanish for language students and language teachers: Languages for general surporses and professional languages.
- Interpreting: simultaneous and consecutive interpreting.
- English, french and german in-service teacher training.

RESEARCH GROUP LEADER: LIDIA TAILLEFER DE HAYA
PAI CODE: HUM842

CONTACT
PHONE: 952 133 428 | FAX: 952 131 843
E-MAIL: ltaillefer@uma.es | WEB: https://www.uma.es/departamento-de-filologia-inglesa-francesa-y-alemana/info/71874/grupo-de-investigacion-linguistica-y-lenguas-aplicadas/
ADDRESS: Dpto. Filología Inglesa, Francesa y Alemana. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group Study and teaching of specialised speeches and new technologies of the Faculty of Philosophy and Letters is composed of 26 researcher of great experience in the field of translation and interpretation in Spanish, German, English and French. This group, created in 2007, is composed of computer specialists, lawyers, librarians, nurses and translators, which permit them to work closely in different areas.

RESEARCH TOPICS

• Research and teaching of specialised speeches and new technologies.
• Multidisciplinary study of specialized speeches.
• New technologies applied to professional translation and interpretation practice.
• New technologies applied to the teaching of second languages.
• Quality and appraisal in specialised translations and interpretations.
• Translation and interpretation training.
• Specialized speech training.
• Audiovisual Translation
• Translation and accessibility.

SCIENTIFIC-TECHNICAL SERVICES

• Advice on translations and interpretations.
• Formative assessment on the learning and teaching of translation studies.
• Advice given on the implementation of new technologies in language teaching and in translation.
• Analyses of the lack of students in schools.
• Training courses for translators and interpreters.
• Advice given on translation of advertisements.
• Translation of specialised texts and audiovisual translation

RESEARCH GROUP LEADER: MARÍA-JOSÉ VARELA SALINAS
PAI CODE: HUM855

CONTACT
PHONE: 952 133 416 | FAX: 952 133 419
E-MAIL: mjvs@uma.es | WEB: http://www.edint.net
ADDRESS: Dpto. Traducción e Interpretación. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071 - Málaga
INTRODUCTION
The Social and Citizenship Education research group is made up of teachers at different educational stages and university. Its main objective is to research and promote innovation in the teaching and learning of social and cultural content, at all educational stages and for formal, non-formal and informal education. The team, made up of a dozen teacher-researchers, is specialised in approaching educational processes from the perspective of relevant social problems or socially live issues, from the application of critical literacy, the feminist perspective and historical memory.

RESEARCH TOPICS
- Education for Democratic Citizenship and Human Rights.
- History and Heritage Education.
- Teacher Training in Didactics of Social Sciences.
- Curriculum, didactic models and school textbooks.
- Teaching and Learning of Social Sciences.
- Simulation games for teaching history.

SCIENTIFIC-TECHNICAL SERVICES
- Design, evaluation and advice for the initial and ongoing training of teachers.
- Educational projects for museums and interpretation centers with historical and social content.
- Design of historical simulation games for educational use.
- Development of school textbooks and curricular materials for the teaching of social and cultural content.

RESEARCH GROUP LEADER: CARMEN ROSA GARCIA RUIZ
PAI CODE: HUM856

CONTACT
PHONE: 952 132 605
E-MAIL: crgarcia@uma.es  |  WEB: https://www.researchgate.net/lab/HUM-856-Educacion-Social-y-Ciudadana-EDUSOC-Garcia-Ruiz-Carmen-Rosa
ADDRESS: Facultad de Ciencias de la Educación. Campus de Teatinos, s/n. 29071- Málaga
CONTEMPORARY LITERATURE ABOUT EUROPE

INTRODUCTION

This research group was created in 2007 and brings together 12 members from the University of Málaga who work on Anglophone literature and culture, with a special interest in contemporary fiction. We firmly believe in the fundamental role that Humanities fulfils, and advocate for the value of literature and culture in producing change and transformation. We situate literature in a wider cultural context that reaches beyond entertainment, and regard the transformative qualities of literature as a medium that stimulates critical thinking. Understanding literature as a channel endowed with therapeutic qualities that are key to physical and emotional wellbeing, our research aims at meeting current challenges through English literature and culture.

RESEARCH TOPICS

- Anglophone literature and culture.
- Temporality (past, present or future) in the context of contemporary society and culture.
- Literature and other disciplines (medicine, science, technology, photography, art etc.).
- Gender and literature.
- Postcolonial studies and multiculturality.
- Diversity, Vulnerability and Resilience.

SCIENTIFIC-TECHNICAL SERVICES

- Expert advice and guidance in topics related to literature, multiculturality, situations of exclusion and discrimination, as well as other related content.
- Transversal studies and multi- and interdisciplinarity.
- Safeguarding cultural heritage and textual patrimony.
- Organization of workshops and counseling in cultural events.
- Scientific reports on literary and cultural capacity, the past and memory in contemporary literature and the relationship between history and literature.
- Gender studies, women and literary representation in Anglophone and other languages and cultures.

RESEARCH GROUP LEADER: Mª DEL ROSARIO ARIAS DOBLAS
PAI CODE: HUM858

CONTACT
PHONE: 952 131 793
E-MAIL: rarias@uma.es | WEB: https://www.litcae.com/
ADDRESS: Dpto. Filología Inglesa, Francesa y Alemana. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group is formed of 8 different researchers from many different fields, such as, Psychology, Informatics Science, Psychopedagogy, Political science and Journalism. The principle objective of this team is to create an observatory of social movements, whose purpose is to unite all the_currant and past information associated with the different social groups; like, the contexts in which they operate, et cetera. This tool will enable both public and private institutions such as non-governmental organizations (NGOs) to find information relevant to their work and research. This newly setup, interdisciplinary group is interested in the research of new, youth collective movements, such as that as the “botellón” (nightlife where young Spanish people socialize in the free air, to drink beverages previously acquired in shops).

RESEARCH TOPICS

- Collective Behaviour.
- Social Changes and Development.
- Social Networking Alternatives.
- Participation from Citizens and Employment.
- Social Movements.

SCIENTIFIC-TECHNICAL SERVICES

- The creation of a volunteer center for social movements.
- Social worker in social development.
- Help given on techniques for partaking in founding.
- Social influences in the use of new technologies.
- Sociocultural help for schools.
- Organisation of scientific-technical reports for corporate bodies interested in knowing the collective behavior and activities for the improvement of civic participation.

RESEARCH GROUP LEADER: FELIX MORAL TORANZO
PAI CODE: HUM876

CONTACT
PHONE: 952 133 215  |  FAX: 952 131 100
E-MAIL: fmoral@uma.es
ADDRESS: Dpto. Psicología Social, Antropología Social, Trabajo Social y Servicios Sociales. Facultad de Psicología. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The HUM-880 research group is committed to interdisciplinarity and constant innovation in order to achieve academic excellence at the University of Malaga. The Group’s faculty has focused on Korean Studies and Slavery Studies, miscegenation and abolitionism at a global level, with special attention to Europe, Africa and Asia. The research is carried out by mobilizing a great methodological diversity ranging from history or translatology to trade relations, literature, anthropology or performing arts. We are also very aware of the dissemination of Korean and African culture, and the establishment of institutional relations with related entities at the international level. The members of the research team are fluent in the following languages: English, French, Korean and Italian.

RESEARCH TOPICS

- Slavery, miscegenation and global abolitionism.
- Korean thought and Korean religions.
- European travelers and explorers in East Asia.
- History of Archaeology in Korea, historiography and Korean history.
- Women and Gender Studies in East Asia.
- Economic and trade relations in East Asia.
- International Development Cooperation in East Asia.

SCIENTIFIC-TECHNICAL SERVICES

- Translation into Spanish from original literary texts in Korean.
- Advising on East Asian and South Korean topics.
- Processing of documentary collections.
- Organization of scientific-academic events, courses and cultural activities for the dissemination of the group’s results.
- Intermediation with institutions and universities in South Korea and East Asia.
- Research on social issues with special attention to marginality, equity and gender in East Asia, Europe and Africa.

RESEARCH GROUP LEADER: AURELIA MARTIN CASARES
PAI CODE: HUM880

CONTACT
PHONE: 958 243 625
E-MAIL: aureliam@uma.es | WEB: asiaoriental.uma.es
ANALYSIS OF NEWS ABOUT LINGUISTICS DISSEMINATION, LANGUAGES OF SPAIN AND ITS VARIETIES

INTRODUCTION

This research group has as its primary purpose the collection, labelling, analysis and interpretation of the news disclosure linguistics dissemination, the languages of Spain and its varieties appearing in different media. The integration of group members is dynamic and doctors and graduates are joining the staff of a team that has eight doctors, most of the University of Malaga, but also with doctors of other national and European Universities. They work with the news that deal, for example, with linguistic (specifically in genre increasingly grown in the media, as is scientific dissemination); or the importance of Spanish in the world, as we know, one of the languages most spoken in the world; or narration of how the living situation goes, among the languages spoken in Spain; or treatment of the varieties of Spanish, especially in the local media; etc.

RESEARCH TOPICS

- Language as news.
- Discourse Analysis.
- Sociolinguistics.
- Language Policy.
- Scientific Dissemination.
- Historiography of Linguistics.
- Computational Linguistics.

SCIENTIFIC-TECHNICAL SERVICES

- Creating of resources and tools of linguistic analysis.
- Studies on discourse analysis, sociolinguistics and politics.
- Analysis of news used for scientific dissemination.

RESEARCH GROUP LEADER: FRANCISCO MANUEL CARRISCONDO ESQUIVEL
PAI CODE: HUM881

CONTACT
PHONE: 952 131 777 | FAX: 952 131 777
E-MAIL: esquivel@uma.es | WEB: http://www.lenguayprensa.uma.es
ADDRESS: Dpto. Filología Española I y Filología Románica. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
POETICS OF THE FICTION IN THE CONTEMPORARY ARTS

INTRODUCTION

The group focuses its research on analyzing how fiction is present-looking modes and variations-in audible and visual arts of the past fifty years. It aims to study the contemporary marginal compared to the hegemonic discourse of contempt of the fictional in audiovisual arts from the second half of the 19th century and the decades of historical vanguards. The group includes researchers from the Fine Arts, the practice of comics and Philosophy.

RESEARCH TOPICS

- Fiction in the visual arts.
- Study of contemporaneity.
- Aesthetics in the vanguard arts.
- Analysis of new narrative uses.

SCIENTIFIC-TECHNICAL SERVICES

- Study and analysis of audiovisual pieces.
- Cataloguing of audiovisual pieces.
- Analysis Reports of the new narrative uses.
- Teaching in specialized centers.
- Advice to cultural institutions.

RESEARCH GROUP LEADER: LUIS PUELLES ROMERO
PAI CODE: HUM941

CONTACT
PHONE: 952 131 801 | FAX: 952 137 589
E-MAIL: lpr@uma.es
ADDRESS: Facultad de Filosofía y Letras.
INTRODUCTION

This research group, based in the Faculty of Fine Arts at the University of Malaga, is made up of PhDs in Fine Arts, whose research concur in the analysis of artistic practice. Its main expertise is the study of the relationship between artistic phenomena and cultural and social processes, as well as analysis of the creative process of important artists, and so explicit in the case of Picasso. This specialization is supported by several publications on these topics. This group is also working on applications of the results to the teaching.

RESEARCH TOPICS

- Creative Processes.
- Art and Teaching.
- Art and Society.
- Picasso.

SCIENTIFIC-TECHNICAL SERVICES

- Advice to museums, galleries and art centers.
- Organization of artistic exhibitions, curatorial work and artistic practice.
- Organisation of conferences and courses on Picasso, art and teaching, art and society.
- Analysis, theory and art criticism.

RESEARCH GROUP LEADER: SALVADOR HARO GONZÁLEZ
PAI CODE: HUM945

CONTACT
PHONE: 952 137 314 | FAX: 952 137 396
E-MAIL: sharo@uma.es | WEB: http://www.bbbaa.uma.es/blog/
ADDRESS: Facultad de Bellas Artes. Plaza de El Ejido, s/n. 29071- Málaga
INTRODUCTION

Since 2007 the members and collaborators of the HUM953 Group "Andalusian Sociolinguistic Feminine", have started a systematic research on the study of the Andalusia feminine oral uses. In short, it will provide a specific critical and chronological bibliography, plus a report of ongoing work. In addition to designing a "Female oral corpus of Andalusia", our team has focused its attention on the realistic variation analysis of the feminine uses of Spanish in Andalusia. Although in the traditional Dialectology and in the works of linguistic Geography the women had been marginalized, our group wants to give voice to the female informants. It is important to hear them speak and express themselves. Recently, a booklet for internal use of the Group was published, titled "The voice of the women of the Axarquía".

RESEARCH TOPICS

- Urban and rural socio-linguistics of Andalusian women.
- Innovative uses.
- Linguistic archaisms.
- Differences in women’s vocabulary.
- Female ethnotext.
- Processes of standardization in progress among Andalusian speakers.
- Rural women facing linguistic prestige.

SCIENTIFIC-TECHNICAL SERVICES

- Elaboration of linguistic reports.
- Creation of lexical indexes.
- Dictionary creation.
- Studies of female uses of language in Andalusia.
- Historical, ethnographic, historical memory studies in linguistics.

RESEARCH GROUP LEADER: MANUEL GALEOTE LOPEZ
PAI CODE: HUM953

CONTACT
PHONE: 952 136 676 | FAX: 952136676
E-MAIL: galeote@uma.es | WEB: http://www.uma.es/departamento-de-filologia-espanola/info/104020/sociolinguistica-femenina-andaluza-hum-953/
ADDRESS: Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071 - Málaga
COMMUNICATION, TECHNOLOGY AND ARCHITECTURE

INTRODUCTION

The research group "Communication, Technology and Architecture" emerges as a need to study a new conception of contemporary architecture, linked to the incorporation of new technologies, to the new information society and to the social and cultural impact this entails. The city and the landscape of communication and mass culture require new forms of study and new methodologies that renew the old ways of understanding the architectural fact, seeking the innovation of its production, and considering it from its meaning as one of the main Socio-cultural manifestations of the contemporary world.

RESEARCH TOPICS

- Architecture and new technologies.
- Architecture and image.
- Public space and communication.
- Tourism, communication and architecture.
- History of modern and contemporary architecture.
- Architecture and advertising.
- Architecture and pop art.
- Interactive architecture.
- Cinema and architecture.
- Architecture and spectacle.

SCIENTIFIC-TECHNICAL SERVICES

- Study of new architectural typologies.
- Studies and adaptations between architecture and advertising.
- Tourist study of scenic and architectural routes.
- Studies and proposals on cultural and urban tourism.
- Urban scenery.
- Heritage cataloging.
- Remodeling of facades with new technologies.

RESEARCH GROUP LEADER: JAVIER BONED PURKISS
PAI CODE: HUM964

CONTACT
PHONE: 952 133 488 | FAX: 952 133 488
E-MAIL: fjboned@uma.es
ADDRESS: Edificio Compartido Arquitectura y Bellas Artes. Campus El Ejido, s/n. 29071- Málaga
INTRODUCTION

This research group from the E.T.S. of Architecture of the University of Malaga, is composed of a human team with wide experience in the relation of the architecture with the landscape and the technological innovation, as much from the field of the design as in construction. It also has experience in city-port relations, the study of tourist architecture derived from the new forms of housing in the contemporary economy; as well as in the development of Smart-city linked to healthy city and mobility.

RESEARCH TOPICS

- Tourism and landscape architectures.
- Contemporary habitat Models.
- The port city and the healthy city.
- Architectural heritage and urban regeneration.
- Urban metabolism and energy.
- Smartcity and architectural and urban innovation.
- Sustainable mobility.

SCIENTIFIC-TECHNICAL SERVICES

- Studies and reports.
- Management of architectural rehabilitation projects.
- Urban and landscape planning.
- Support to Smartcity in urban, architectural and mobility matters.

CONTACT

PHONE: 952 134 148 | FAX: 952 134 148
E-MAIL: cjrosa@uma.es | WEB: https://www.uma.es/hum-969/
ADDRESS: E.T.S de Arquitectura. Campus El Ejido s/n. 29071 - Málaga
INTRODUCTION

The Research Group on Science Education and Competences (ENCIC) has its origins in 2010 when a group of teachers of Science Education Department at the University of Malaga and Secondary School teachers from various schools of Malaga, begins to develop a research project around the development of scientific competence in compulsory education. ENCIC has been developing its research, development and transfer tasks, based on the need to link research with educational practice. In short, ways are sought to integrate competencies in science teaching.

RESEARCH TOPICS

- Development of scientific competencies in daily life problems through scientific practices of argumentation, inquiry and modeling.
- Development of critical thinking in science teaching and teacher training.
- Educational games and recreational resources in science teaching.
- Environmental awareness and its inclusion in the training of teachers.
- Teaching science and technology from a gender perspective.
- Treatment of socially alive issues from the teaching of sciences.
- Collective activism based on scientific research.
- Transfer of inquiry, contextualization and STEAM approaches to classrooms.
- Development and monitoring of the teaching identity of secondary education teachers in initial and new training.

SCIENTIFIC-TECHNICAL SERVICES

- Delivery of workshops in educational centers on educational games, role-playing games, controversy mapping and mobile applications for science teaching.
- Advice to departments and science teachers for the development of learning situations.
- Advice to the university community on activities, events and projects on science teaching and/or dissemination.

RESEARCH GROUP LEADER: ÁNGEL BLANCO LÓPEZ
PAI CODE: HUM974

CONTACT
PHONE: 952 132 391   | FAX: 952 132 391
E-MAIL: ablankol@uma.es | WEB: http://www.encic.es
ADDRESS: Dpto. Didáctica de las Ciencias Experimentales. Facultad de Ciencias de la Educación. Campus Teatinos, s/n. 29071 - Málaga
INTRODUCTION

The HUM-994 Research group includes a team of university professors, with a wide professional experience in the private sphere. The active lines of research are mainly Cultural Heritage and Teaching Didactics, and over that basis we have articulated our professional activities.

RESEARCH TOPICS

- Communication of Cultural Heritage. Itineraries.
- Didactics of Cultural Heritage applied to teaching.
- Tourism and Cultural Heritage.
- Urban cataloging.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice on the identification of patrimonial resources.
- Drafting of urban catalogs.
- Drafting of Records of Asset of Cultural Interest: Monument.
- Design of itineraries and urban routes.
- Appraisal and expertise of artistic works,

RESEARCH GROUP LEADER: Eduardo Asenjo Rubio
PAI CODE: HUM994

CONTACT
PHONE: 609 139 091
E-MAIL: ear@uma.es
ADDRESS: Facultad de Filosofía y Letras. Campus de Teatinos, s/n. 29071- Málaga
CATALYTIC PROCESS TECHNOLOGY PROCAT
PATHOLOGY, GENETICS, BIOTECHNOLOGY OF AQUACULTURE SPECIES
BIODIVERSITY, CONSERVATION AND VEGETATION INVENTORY
PHYSICAL OCEANOGRAPHIC GROUP OF THE UNIVERSITY OF MALAGA (GOFIMA)
POSIDONIA SUR (SOUTH POSIDONIA)
Paleobiology, Paleoclimatology and Paleogeoography
ECOPHYSIOLOGY OF AQUATIC SYSTEMS
MARINE ECOLOGY AND LIMNOLOGY
STUDY AND APPLICATION OF CLAY
BIオGEOGRAPHY, DIVERSITY AND CONSERVATION
PHYSICAL GEOGRAPHY AND TERRITORY
ENGINEERING AND ENVIRONMENTAL MANAGEMENT (G.I.G.A)
ELEKTRA
PHOTOBIOLOGY AND BIOTECHNOLOGY OF AQUATIC ORGANISMS (FYBOA)
HYDROGEOLOGY RESEARCH GROUP - UNIVERSITY OF MALAGA (GHUMA)
GEOCHEMISTRY AND ENVIROMENTAL RADIOACTIVITY
INTRODUCTION

The Group of the Catalytic Processes Technology (PROCAT) belongs to Chemical Engineering Department at Faculty of Science at UMA and is constituted by 7 members. The research activity of the PROCAT Group is focused on Applied Catalysis for environmental protection, energy conversion and sustainable chemicals’ production. The research approach concerns the control of the catalyst properties, at the nanoscale level, achieved by the use of an adequate preparation technique. Such control is combined with surface reactivity and mechanism studies performed in situ, under steady state or transient conditions.

RESEARCH TOPICS

- Catalytic purification of gaseous effluents. Removal of NOx from mobile sources and simultaneous removal of particulate matter (DeSoot) and DeNOx.
- Development of heterogeneous catalysts for industrial applications.

SCIENTIFIC-TECHNICAL SERVICES

- Testing and characterization of Catalysts and Functionalized Materials.
- Monitoring of chemical reactions in situ RAMAN-FTIR-MS-CG.
- Thermogravimetric Analysis.
- Studies of the use of biomass, biosolids and biogas.
- Counseling in courses, seminars and congresses organization.

RESEARCH GROUP LEADER: LUIS JOSE ALEMANY ARREBOLA
PAI CODE: RNM111

CONTACT
PHONE: 952 131 919  |  FAX: 952 131 919
E-MAIL: luijo@uma.es  |  WEB: https://procat.uma.es/
ADDRESS: Dpto. Ingeniería Química. Facultad de Ciencias. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The group Pathology, Genetics and Biotechnology of aquaculture species, emerged in 1990 from Microbiology and Genetics researchers studying the genetic and pathological problems affecting crops fish and molluscs in the systems of aquaculture. In addition, this group has an extensive experience in the analysis and assessment of problems of pollution and public health of the aquatic environment.

RESEARCH TOPICS

- Diagnosis and detection of viruses that affect crop-fish.
- Study of immunogens that cause resistance to bacterial and viral diseases in fish.
- Bacterial pathogenesis of fish and molluscs.
- Microbiology and Water Biotechnology.

SCIENTIFIC-TECHNICAL SERVICES

- Assessment of the immune response in cultured fish.
- Molecular diagnostics of viruses and bacteria in fish and molluscs.
- Design and evaluation of vaccines.
- Genotyping of individuals and samples.
- Identification of critical points in the production of aquaculture systems.
- Microbiological and physicochemical analysis of water.
- Health control of products and aquaculture facilities.

RESEARCH GROUP LEADER: JUAN JOSE BORREGO GARCIA
PAI CODE: RNM112

CONTACT
PHONE: 952 131 893  |  FAX: 952 136 645
E-MAIL: jjborrego@uma.es  |  WEB: http://webdeptos.uma.es/microbiologia/acuicolas.htm
**INTRODUCTION**

A research group with a very important scientific collection (MGC herbarium) of algae and terrestrial plant, as well as a team with much experience in field work, the taking of samples, cartography and analysis and identification of flora. They also carry out scientific-technical studies on aerobiology and palynology.

**RESEARCH TOPICS**

- Conservation of endangered plant species and communities.
- Aquatic Botany. Ecophysiology and Ecotoxicology of water systems (algae and anerogamous plants).
- Climate change and vulnerability of vegetation to climate change.
- Terrestrial invasive species.

**SCIENTIFIC-TECHNICAL SERVICES**

- Studies of natural space planning.
- Plans for the recovery and conservation of endangered plant species.
- Measurement and analysis of the pollen content in the air.
- Elaboration of pollen calendars.
- Detection and study of new pollen allergens.
- Identification, assessment and management of Habitats of Community Interest (HIC) of the NATURA 2000 Network.

**RESEARCH GROUP LEADER:** MARIA DEL MAR TRIGO PEREZ  
**PAI CODE:** RNM115

**CONTACT**  
PHONE: 952 131 952 | FAX: 952131944  
E-MAIL: bcabezudo@uma.es | WEB: http://www.ciencias.uma.es/wciencias/grupos/grupos/biodiversidad.html  
PHYSICAL OCEANOGRAPHIC GROUP
OF THE UNIVERSITY OF MALAGA
(GOFIMA)

INTRODUCTION

Research group that studies the hydrodynamics of the Gibraltar Strait, the Alboran Sea and the Gulf of Cadiz. At present, these researchers develop an operational system for meteo-oceanic forecast based on a high resolution numerical model of the Strait of Gibraltar and neighbor basins, with higher detail in the Bay of Algeciras. Based on the same model they study the connectivity patterns of the main commercial species of fishes in the Alboran Sea - Strait of Gibraltar. Moreover they develop numerical models of the circulation in Guadiana and Guadalquivir estuaries.

RESEARCH TOPICS

- Water exchange through the Strait of Gibraltar. Water mass circulation in the Andalusian Littoral.
- Mesoscale processes in the Alboran Sea and the Gulf of Cadiz.
- Biological and ecological implications of the near-surface circulation.
- Sea level variations in the Mediterranean Sea and climate forcing.
- Numerical modelling of internal waves in stratified straits.
- Numerical simulation of the water mass exchange as resource of renewable energies.
- Numerical modelling of estuaries.
- Numerical simulation of passive tracers for the estimation of the water quality of coastal and harbor areas.
- Operational oceanography.
- Connectivity of commercial species of fishes in Alboran Sea and Strait of Gibraltar.

SCIENTIFIC-TECHNICAL SERVICES

- Characterization of marine processes important for the port activities.
- Analyze and anticipate the consequences of human activities in the Mediterranean Sea.
- Numerical simulation for the deployment of renewable energies in a marine environment.
- Oceanographic coupling between estuaries and continental shelf. Numerical models of estuaries.
- Visualization and computer graphic animation of environmental data. Observational oceanography.

RESEARCH GROUP LEADER: JESUS MANUEL GARCIA LAFUENTE
PAI CODE: RNM137

CONTACT
PHONE: 952 132 721 | FAX: 952 131 355
E-MAIL: glafuente@ctima.uma.es | WEB: http://oceano.uma.es
ADDRESS: Dpto. Física Aplicada II. E.T.S.I. Telecomunicación. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group of the Department of Animal Biology, University of Malaga, specializes in the study of marine fauna (decapod crustaceans, molluscs and echinoderms). Its researches are useful to know the diversity and biology of the species (reproduction and growth, closed seasons, stocks evaluation, natural resources management, among other), management of marine areas and environmental impact assessment, this to know the Impact - positive or negative - that civil engineering works or pollutant spills into marine waters may have on the environment. Its works are of interest for public administrations and private companies that want to know the marine biodiversity or impacts caused by a human intervention.

RESEARCH TOPICS

- Taxonomy and biogeography of decapods crustaceans, molluscs and echinoderms.
- Growth and reproduction in molluscs and crustaceans.
- Dynamics of marine communities.
- Study of environmental impacts on the marine shorelines.
- Marine areas: characterization, assessment, management and monitoring.

SCIENTIFIC-TECHNICAL SERVICES

- Natural resources cataloguing and inventory.
- Marine resource management and impact study.
- Studies of reproductive and growth cycles in bivalve mollusks, echinoderms and decapods crustaceans.
- Study the structure and dynamics of marine communities.
- Systematic, taxonomy and biogeography.
- Follow-up on introduced species and marine organisms.

RESEARCH GROUP LEADER: JOSE ENRIQUE GARCIA RASO
PAI CODE: RNM141

CONTACT
PHONE: 952 131 857 | FAX: 952 131 668
E-MAIL: garciaraso@uma.es | WEB: http://www.ciencias.uma.es/wciencias/departamentos/BIOANIMAL/bioanimal/grupo4.html
INTRODUCTION

This research group works in the Faculty of Sciences and is constituted by a scientific team highly qualified in the field of Paleontology and Geology. Its members develop extensive studies throughout the Betic and other Mediterranean alpine cordilleras and are mainly focused on the postorogenic basins, Cenozoic Flysch nappes and Cretaceous sediments. This group has advised scientifically for museums and corporations with environmental and geological interests.

RESEARCH TOPICS

- Western Mediterranean paleogeography and Atlantic-Mediterranean communication during Neogene-Cuaternary.
- Paleogeographic and tectonic evolution of Tertiary basins in the circum-Mediterranean Alpine area.
- Biostratigraphy and chronostratigraphic studies based on planktonic foraminifers.
- Morphometric and taxonomic studies of several groups of organisms (planktonic foraminifers, ammonites, mammals).
- Taphonomy and paleoecology of Plio-Quaternary mammals. Biostratigraphy and chronostratigraphic studies based on planktonic foraminifers.

SCIENTIFIC-TECHNICAL SERVICES

- Control of materials drilled in cores through micropaleontologic and microfacies analysis.
- Edaphologic and geologic environmental studies.
- Soils analysis: fertility and degradation.
- Dating and environmental characterization of sediment through micropaleontologic analysis.
- Technical advice on geodiversity studies.
- Technical advice on protection of geological and paleontological patrimony.

RESEARCH GROUP LEADER: FRANCISCO SERRANO LOZANO
PAI CODE: RNM146

CONTACT
PHONE: 952 131 846  |  FAX: 952 132 000
E-MAIL: f.Serrano@uma.es
ECOPHYSIOLOGY OF AQUATIC SYSTEMS

INTRODUCTION

The members of this research group belong to both Ecology and Plant Physiology research areas of the Faculty of Sciences. The research activity lies mainly on the study of the ecology of water systems and on the physiology and biochemistry of water plants, integrating the response of ecophysiological variables from a molecular perspective to the ecosystem level.

RESEARCH TOPICS

- Ecology of estuaries and seaside areas. Sediment-water relations. Diagenesis.
- Photocontrol of the growth and metabolism of the C, N and P in plants.
- Extraction and optimisation of the production of natural compounds in algae of commercial interest.
- Study of enzymes involved in the stress in water plants (MAP-Kinases).
- Electrophysiology. Transportation and homeostasis of ions in plants.
- Polar Biology. Acclimatisation strategies and responses by macroalgae to factors derived from the climate change.
- Molecular ecophysiology of phytoplankton and it relation to higher levels of the trophic network (micro and mesozooplankton) in the context of global chanhe (CO2, UVR and nutrients).
- Ecology and ecophysiology of invasive seaweeds.

SCIENTIFIC-TECHNICAL SERVICES

- Establishing environmental quality norms in water systems.
- Environmental analysis. Assessment of environmental impact.
- Management of resources and environmental management for companies.
- Manipulation of the biomass quality. Extraction and optimisation of the production of natural compounds of algae of commercial interest.
- Nutritional quality of plant production.

RESEARCH GROUP LEADER: CARLOS JIMÉNEZ GÁMEZ
PAI CODE: RNM176

CONTACT
PHONE: 952 134 134
E-MAIL: carlosj@uma.es
MARINE ECOLOGY AND LIMNOLOGY

INTRODUCTION

This group is part of the department of Ecology and Geology (Ecology Area) of the Faculty of Sciences of the University of Malaga. Its main areas of research are the study of the structure of the sizes and physical-biological interaction in the plankton of water ecosystems, the study of the ecology of epeiric waters, and the conservation of sea ecosystems.

RESEARCH TOPICS

- Physical control of the biological production in the ocean.
- Conservation and management ecosystems.

SCIENTIFIC-TECHNICAL SERVICES

- Evaluation of the environmental impact in water systems (lakes, reservoirs and rivers) and coastal areas.
- Consultancy for the management and planning of protected spaces (wetlands and sea areas).
- Flow cytometry and image analysis of biological samples of water ecosystems.

RESEARCH GROUP LEADER: ENRIQUE MORENO OSTOS
PAI CODE: RNM192

CONTACT
PHONE: 952 136 649
E-MAIL: quique@uma.es | WEB: http://www.uma.es/girtpm
INTRODUCTION

The research group the Study and Applications of Clay Minerals, in the Department of Inorganic Chemistry, Crystallography and Mineralogy in the Faculty of Science, studies natural clays in their different geological environments to subsequently conduct its experimental synthesis. This interdisciplinary team is composed of 3 geologists and 2 chemists that are engaged in the study of the clays and the mica components of the Gibraltar Arc area –specifically the Betic Cordillera in Southern Spain and in the Rif Cordillera; Northern Morocco–. During their latest research, this group have been studying the kaolinite –clay mineral– and phyllosilicates –and paying specific attention to mica–.

RESEARCH TOPICS

- Low-grade metamorphic study.
- Crystallochemical of clay minerals.
- Experimental mineralogy in clays.
- Modifying clay properties.

SCIENTIFIC-TECHNICAL SERVICES

- Implementation of petrologic and mineralogical studies of geological formations for public works and/or interested companies.
- Participation and organisation of conferences, workshops, and masters in relation with the research topics.
INTRODUCTION

A research group located in the Department of Animal Biology of the Faculty of sciences of the Universidad de Málaga. Its main line of scientific activity includes methodological aspects of interest for the study of biogeography, carrying out a methodology of its own whose improvement, possibilities of application and dissemination have become subjects for publication in themselves. The remaining contributions deal with the biogeography and conservation of different taxonomical groups.

RESEARCH TOPICS

- Biogeographical and conservation analysis of species and populations.
- Distribution atlas of vertebrates.
- Biogeography of zoonotic diseases.
- Agro-environmental analysis.
- Effects of climate change on the distribution of living beings.
- Predictions on invasive species distribution.
- Collaboration between scientists and indigenous traditional knowledge.

SCIENTIFIC-TECHNICAL SERVICES

- Faunal studies in areas of interest.
- Restoration of habitats.
- Hunting management.
- Assessment of agro-environmental impacts.
- Invasive species management.
- Diversity analysis of soil arthropods.

RESEARCH GROUP LEADER: RAIMUNDO REAL GIMÉNEZ
PAI CODE: RNM262

CONTACT
PHONE: 952 131 861 | FAX: 952131668
E-MAIL: rrgimenez@uma.es
INTRODUCTION

This group of investigation is specialized in the study of surface hydrology. Research objects are various basins in Malaga, Granada and Almeria. Collected field samples are subsequently analyzed and characterized in the soil laboratory. The research group and its 18 members are involved in various collaborations with national universities and universities from Latin-America and Asia. These and other projects have been contributing to the strong experience and curriculum of this group.

RESEARCH TOPICS

- Hydrodynamics of surface formations in the Mediterranean eco-geomorphological system.
- Soil degradation and definition of geomorphologic-edaphical units.
- Cartography of erosion processes.
- Hydrologic and geomorphologic processes of basin precipitation.
- Physical geography.
- Geomorphology and potential of sites, which are considered geomorphological cultural patrimony.
- Impact of the sea level on cultural patrimony in the bay of Malaga.
- Sustainability management of tourism development.
- New teaching technologies for universities.
- Applied Climatology.

SCIENTIFIC-TECHNICAL SERVICES

- Hydrological studies of basins.
- Identification of hydrological surface characteristics.
- Measurement and estimation of erosion.
- Elaboration and digitalization of cartography.
- Studies of impact and risk on the environment.
- Inventory of cultural patrimony (geomorphological and archaeological).

RESEARCH GROUP LEADER: JOSE DAMIÁN RUIZ SINOGA
PAI CODE: RNM279

CONTACT
PHONE: 952 131 710 | FAX: 952 131 700
E-MAIL: sinoga@uma.es
ADDRESS: Dpto. Geografía. Facultad de Filosofía y Letras. Campus Teatinos, s/n. 29071- Málaga
ENGINEERING AND ENVIRONMENTAL MANAGEMENT (G.I.G.A)

INTRODUCTION

The Engineering and Environmental Management Group of the UMA has the most up-to-date equipment for the analysis and characterization of soils and waters. It is constituted by a highly qualified human team and a wide curriculum in indicated research lines. It also has a wide experience in the management of waste produced by the productive sectors, indispensable circumstance in order to value and improve its reuse and also implementing measures aimed to the environmental protection.

RESEARCH TOPICS

- Decontamination of soil and groundwater.
- Wastewater treatment and potabilization.
- Management of industrial, urban, biomass and electronic waste.
- Critical raw materials and urban mining.
- Reuse and recycling of secondary batteries.
- CO2 capture, biogas refining and hydrogen production.

SCIENTIFIC-TECHNICAL SERVICES

- Physical-chemical characterization of soils.
- Modeling systems and techniques application on contaminated soils recovery.
- Analysis of drinking and waste water.
- Waste management studies.
- Multiphysics modeling of electrochemical systems with COMSOL.

RESEARCH GROUP LEADER: CARLOS VEREDA ALONSO
PAI CODE: RNM281

CONTACT
PHONE: 952 131 917
E-MAIL: cvereda@uma.es  WEB: https://umagiga.wixsite.com/giga
INTRODUCTION

The research group Elektra from the Department of Electrical Engineering at University of Malaga is specialised in the study of magnetic fields. This research group has extensive experience in the measurement of electromagnetic pollution produced by the lines of transport and distribution of power lines of high, medium and low voltage. Their studies may be of interest to insurance companies and agencies of occupational risk prevention who might want to issue technical reports on electromagnetic fields.

RESEARCH TOPICS

- Measurements of electromagnetic fields.
- Electromagnetic pollution report.
- Magnetic fields.
- Effects of electric fields on human beings.

SCIENTIFIC-TECHNICAL SERVICES

- Scientific-technical assistance in:
  - Research on electric and magnetic field measurements.
  - Redaction of civil works and industrial facilities projects.
  - Industrial engineering projects.
- Assessments of company projects.
- Technical reports on industrial damages.
- Solutions for the reduction or elimination of electromagnetic pollution.

RESEARCH GROUP LEADER: FRANCISCO J. MUÑOZ GUTIERREZ
PAI CODE: RNM292

CONTACT
PHONE: 951 952 352 | FAX: 951 952 514
E-MAIL: fjmg@uma.es
INTRODUCTION

This research group is composed of qualified personnel (13 doctors and 7 graduates) who mainly carry out their scientific activity in two areas, photobiology and the biotechnology of water organisms. The results obtained from their research lend themselves to industrial application in sectors as diverse as the pharmaceutical or foodstuff sectors or that of fish farming.

RESEARCH TOPICS

- Photoecophysiology of macroalgae and microalgae.
- Climate change in water systems.
- Primary production in extreme ecosystems.
- Biotechnology of the biofiltration of effluents (fish and pig farms) by means of algae.
- Photoprotectors, antioxidants and immunostimulants of algae.
- Marine Cosmeceutic.
- Prophylaxis of diseases in aquaculture. Factors of immunogenic virulence.
- Biocontrol of aquaculture pathogens by natural means. Probiotics
- Improvement of the health of aquatic organisms through the use of functional diets.
- Study of the intestinal barrier of aquatic organisms. Implication of the microbiota.

SCIENTIFIC-TECHNICAL SERVICES

- Monitoring solar irradiance in visible and ultraviolet range. Spectrum of biological action.
- Tests on antioxidant capacity of substances of plant origins.
- Biofiltration of effluents (fish and pig farms) by means of algae.
- Assessment of the use of the biomass of biofiltrator algae as functional fodder.
- Bacteriological diagnosis of pathogens.
- Biocontrol strategies: characterization of potential probiotics.
- Evaluation of the immune response and preparation of vaccines.
- Characterization of the microbiota of animal, environmental and clinical samples.
- Study of gene expression by molecular methods.

RESEARCH GROUP LEADER: NATHALIE KORBEE PEINADO
PAI CODE: RNM295

CONTACT
PHONE: 952 136 652 | FAX: 952 132 000
E-MAIL: nkorbee@uma.es | WEB: http://www fyboa.uma.es
INTRODUCTION

The Research Group of Hydrogeology of the University of Málaga (GHUMA) studies groundwaters and their interaction with surface waters, the functioning and management of aquifers, the abstraction of groundwater intended for human consumption, irrigation and other uses as well as the protection of groundwater resources against contamination and the implementation of European Directives on water issues. This Research Group also focuses its activity on karst geodynamics by means of geological studies in caves located in carbonate terrains. After a productive cooperation with the Geological Survey of Spain (IGME), in 2006 the two institutions intensified their relationship through the creation of the Associated Unit "Advance Hydrogeological Studies". Afterwards, the Centre of Hydrogeology of the University of Málaga (CEHIUMA), in which the research group has been included, was set up by the University of Málaga in response to the growing demand for water and to the problems encountered in this respect, in both its quality and its quantity, especially among Mediterranean countries.

RESEARCH TOPICS

- Hydrogeological characterisation of aquifers.
- Groundwater protection.
- Groundwater contamination.
- Hydrological and hydrogeological characterisation of wetlands.
- Geological studies in karstic caves.

SCIENTIFIC-TECHNICAL SERVICES

- Assessment and abstraction of groundwaters.
- Studies on vulnerability and risk of contamination. Groundwater protection.
- Groundwater contamination from different sources of pollution (urban, agricultural and industrial sources).
- Establishment of wellhead protection areas and safeguard zones in bodies of groundwater.
- Use of hydrochemical and isotopic techniques to delineate and characterise bodies of groundwater.
- Studies on karstic caves (tourist caves).
INTRODUCTION

The Research Group on Geochemistry and Environmental Radioactivity (GyRA) is a multidisciplinary group whose activity is focused on the study of chemical and transport processes related to the atmospheric composition. These processes, in turn, have linkage and influence on other components within terrestrial and aquatic environments. Group members have extensive experience in the environmental analysis of trace elements, stable isotopes, and radioisotopes for use as tracers of environmental processes.

RESEARCH TOPICS

- Geochemistry of aerosols and the atmospheric deposition.
- Use of stable isotopes and natural and man-made radionuclides as tracers of environmental processes.
- Influence of atmospheric deposition on the geochemical characteristics of coastal surface waters.
- Geochemical dynamics of N, P and Si in marine ecosystems.
- Development of radiometric methods for the measurement of low-level radionuclide concentrations.

SCIENTIFIC-TECHNICAL SERVICES

- Monitoring natural and artificial radioactivity in the environment (air, water, atmospheric deposition, soil and food).
- Alpha-activity and beta-activity concentrations in environmental samples.
- Determination of Radio isotopes (224Ra and 226Ra) and Pb isotopes (210Pb) in environmental samples.
- High-resolution gamma spectrometry analyses for gamma-emitting (natural and anthropogenic) radionuclides in environmental samples.

RESEARCH GROUP LEADER: ESPERANZA LIGER PÉREZ
PAI CODE: RNM929

CONTACT
PHONE: 951 952 297
E-MAIL: eliger@uma.es
ADDRESS: E.T.S.I. Industriales. Campus de Teatinos, s/n. 29071- Málaga
SOCIAL, ECONOMIC AND LEGAL SCIENCES

- SPORTS LAW
- GROUP OF STUDIES ON JOURNALISM AND COMMUNICATION
- ORGANIZATIONAL CULTURE AND COOPERATIVES
- ECONOMIC POLICY, EUROPEAN UNION AND GLOBAL STUDIES
- CRIMINAL LAW
- MEDITERRANEAN ECONOMIC
- ECONOMIC ANALYSIS
- QUANTITATIVE ECONOMICS OF WELFARE
- TOURISM ECONOMICS: LABOUR MARKET AND ENVIRONMENT
- SOCIAL INDICATORS
- ECONOMETRICS
- LEGAL HISTORY
- MANAGEMENT AND LEADERSHIP OF COMPANIES
- EURIGHTS - HUMAN RIGHTS IN EUROPE
- IMPLICATIONS OF ENVIRONMENTAL NORMATIVE. ENVIRONMENTAL STANDARDS AND DIRECTIVES
- ANDALUSIA RESEARCH GROUP ABOUT FINANCIAL ADMINISTRATION
- MICRO-ECONOMIC FUNDMENTS
- TRANSPORT Y TOURISM
- DUE PROCESS IN A RULE OF LAW STATE
- BUSINESS LAW APPLICABLE TO THE TOURIST INDUSTRY OF ANDALUSIA. TRADE LAW IN A CHANGING ENVIRONMENT
- ANDALUSIAN PUBLIC SECTOR ACCOUNTING INFORMATION
- IMMIGRATION AND AGEING IN EUROPE (EURIE)
- RESEARCH GROUP ON NATURAL RESOURCES
- CULTURE AND AUDIOVISUAL REPRESENTATION
- SOCIO-ECONOMIC APROACH TO MANAGEMENT
- SOCIO-ECONOMIC ANALYSIS METHODS. FUZZY LOGIC
- IMPLEMENTATION OF MARKETING STRATEGIES IN THE ANDALUSIAN SMES
- LAW FOR TOURISM ACTIVITY
- NEW TECHNOLOGIES AND TOURISM
- LEGAL ASPECTS OF THE TAXATION OF NON-RESIDENTS
SOCIAL, ECONOMIC AND LEGAL SCIENCES

- Ethnography, Communication Mediation and Development (ETNOMEDIA-CD)
- Legal Implications of Social and Religious Multiculturalism
- Employment Policies, Equality and Social Inclusion
- MAINAKE
- Human Resources, Organizational Change and Labour Market
- Productivity and Efficiency Analysis
- Economy and History
- Public Relations in Small and Medium Sized Enterprises
- Labcom
- Communication and Power
- New Communication Spaces
- New Advertising and New Economy
- Tourism and Territory
- Economical Analysis of Tourism Sector
- Judicial Cooperation in Criminal Matters
- Theory of Law, Interpretation and Legal Reasoning. Theory of the Legal Argument
- Private Law and Market
- Advanced Legal Studies: Services of General Interest, Vulnerable Collectives and the Environment (Administrative Intervention)
- Technological Innovation and Quality
- Multi-Criteria Decision Making Applied to the Public Sector
- Work and Transportation Management
- Welfare Theory
- Advanced Audiovisual Contents
- Psychological Evaluation in Natural Contexts: Sports and Consumption
- Business Modernization and New Products Creation in Tourism Sector
- Globalization, Technologies, Teaching and Learning
- Development and Intervention of Socio-Affective, Cognitive and Communicative Processes
- Acquisition of Inductive Knowledge Schemes
- Networks and Social Structures
SOCIAL, ECONOMIC AND LEGAL SCIENCES

- CONFLICTS, FAMILIES AND SOCIAL INTERVENTION (CONFIS)
- LEARNING DISABILITIES AND DEVELOPMENTAL DISORDERS
- RESEARCH GROUP OPTIMIZATION MULTICRITERIA AND ECONOMETRIC MODELLING APPLIED TO SOCIO-ECONOMIC AREA
- INNOVATION AND TECHNOLOGY EDUCATION
- PUBLIC ECONOMICS AND EQUITY
- ECONOMY, SOCIETY AND TERRITORY
- DIGITAL MARKETING STRATEGIES
- TALENT SELECTION AND MANAGEMENT
- ECONOMY AND TAXATION IN THE FACE OF POPULATION AGING
- INTERNATIONAL PROJECTION OF HUMAN RIGHTS, SECURITY AND ENVIRONMENT
- ORGANIZATIONAL PERFORMANCE
- OPEN COMMUNICATION IN STARTUPS LEADED BY WOMEN. COMPETITIVE STRATEGIES FOR DIFFERENTIATION AND INNOVATION
- FEMINISM, COMMUNICATION AND COOPERATION FOR SOCIAL JUSTICE (FEMCOM)
- ECONOMETRIC MODELING APPLIED TO THE SOCIO-ECONOMIC FIELD
- OCCUPATIONAL AND ENVIRONMENTAL RISK MANAGEMENT (GERLAM)
- NEW LEGAL SCENARIOS OF GOVERNMENT AND TERRITORY
INTRODUCTION

The research group of Sports Law from the Department of Financial Law, Political Economy and Philosophy of Law at University of Malaga is composed of 4 researchers who work closely with the University of Lleida, the University of the Basque Country, the Spanish Association of Sports Law and with the Andalusian Association of Sports Law. At present, this research group is focused on the study of sports sponsorship in order to find out the tax benefits secured by companies who sponsor sports teams.

RESEARCH TOPICS

- Taxation of sports sponsorship.
- Sports Law.
- Sport in Andalusia.
- Professional sport.

SCIENTIFIC-TECHNICAL SERVICES

- Consultants for sports federations or sports clubs both to Andalusians as Spaniards on:
  - Tax matters.
  - Disciplinary sanctions.
  - Procedures of doping.
  - Amended sports statutes.
- Consultants on electoral processes in sports federations:
  - Electoral regulations.
  - Election challenges.
INTRODUCTION

The Group of Studies on Journalism and Communication, with more than 15 years of experience in the research field of journalistic profession and media companies and management, is made out of 12 researchers belonging to the Journalism Department and the Audiovisual Communication and Advertising of the Universidad de Málaga. The group keep links with national and international institutions, such as Universidad Complutense de Madrid, Reuters Institute from Oxford University, Northwest University in USA, de Sevilla, Universidad Rey Juan Carlos, Universitat Rovira i Virgili, Universidad de Zaragoza or Pontificia Universidad Católica de Valparaíso, among others.

RESEARCH TOPICS

- The journalistic profession.
- Public Media.
- Credibility in the media.
- Research and innovation in journalism.
- Media companies management.
- Communication management.
- Fake news.

SCIENTIFIC-TECHNICAL SERVICES

- Research and teaching in Media and communication management.
- Critical analysis of the media system.
- Application of the new information and communications technology.
- New methods for Journalism teaching through the integration of resources related to web 2.0.

RESEARCH GROUP LEADER: PEDRO FARIAS BATLLE
PAI CODE: SEJ067

CONTACT
PHONE: 952 133 453  |  FAX: 952 133 453
E-MAIL: farias@uma.es
ADDRESS: Facultad de Ciencias de la Comunicación. Campus Teatinos, s/n. 29071 - Málaga
INTRODUCTION

This research group of the Department of Business Economy and Administration disposes of more than 10 years of experience in the analysis of business management of distinct organizations. The 14 members of the research staff are specialized in the analysis of co-operatives from the food and agriculture area as well as rural tourism. Since the creation of the group in 1985, it has conducted numerous research projects and its work has been published several times and awarded prices on various occasions.

RESEARCH TOPICS

- Analysis of corporate culture and image.
- Studies and analysis of rural tourism.
- Creation, analysis and management of SMEs.
- Analysis of social economy companies.
- Creation of dashboards with the help of software.
- Analysis of companies dedicated to services for senior citizens.

SCIENTIFIC-TECHNICAL SERVICES

- Analysis and management of companies from the food and agriculture area and rural tourism.
- Knowledge management.
- Corporate image analysis
- Creation of software dashboard models for a distinct sector.
- Business consultancy:
  - SMEs.
  - Social economy companies.

RESEARCH GROUP LEADER: DOLORES TOUS ZAMORA
PAI CODE: SEJ102

CONTACT
PHONE: 952 131 261 | FAX: 952 131 293
E-MAIL: dtous@uma.es | WEB: http://www.sej102.uma.es
ADDRESS: Dpto. Economía y Administración de Empresas. Facultad de CC. Económicas y Empresariales. Campus de El Ejido, s/n. 29071- Málaga
INTRODUCTION

Research group registered in 1995 which has adapted its lines of research to the new circumstances caused by changes in the global context, in general, and in the construction of the European Union process, in particular. In this sense, the Group's lines of research appear closely linked to those of the Jean Monnet “Ad Personam” Chair of Economics and Politics of the European Union (EU appointment of its responsible researcher), as well as to that of the European projects that are developed within it, for example, the Jean Monnet Center of Excellence (UMA-JMCE), among others. All this, without prejudice to other specific lines of research of its different members.

RESEARCH TOPICS

- Institutions and Economic Governance in the European Union.
- Economy and Finance of the European Union.
- Cohesion, Integration and Borders in the European Union.
- Europe in the World. Strategic associations and commercial relations.
- Economy and Environment. Circular Economy, Climate Change and Environmental Policy.

SCIENTIFIC-TECHNICAL SERVICES

- Innovation and economic development studies.
- Analysis of the European and international economy
- European regional prediction and modeling techniques.
- Territorial planning.
- Analysis of Circular Economy and Environment.
- EU thematic conferences, symposiums, webinars.

RESEARCH GROUP LEADER: PABLO PODADERA RIVERA
PAI CODE: SEJ108

CONTACT
PHONE: 952 131 281/83
E-MAIL: ppodadera@uma.es
ADDRESS: Facultad de Ciencias Económicas y Empresariales, C/ El Ejido, 6, 29071, Málaga
INTRODUCTION

Research group whose area of study is linked to the study of criminal law, with a strong political-criminal orientation supported in criminal investigations. Among the topics of focus include: Theory of criminal law, criminal policy models, crimes against individual property legal, socioeconomic crimes and juvenile delinquency.

RESEARCH TOPICS

- Criminal Policy and Criminal Law-making Policy
- Quantitative and qualitative crime analysis.
- Theory of criminal liability and system of sanctions.
- Minors Delinquency and Youth Justice.
- Crimes against persons: Euthanasia, abortion, gender violence.
- Sex Crimes.
- Migration and Criminal Law.
- Economic Crime.
- Drug Trafficking Crimes.
- Public Corruption.

SCIENTIFIC-TECHNICAL SERVICES

- Legal advice on legal and criminal issues.
- Reports on crime evolution.
- Development of technology for preventing and combating crime.

RESEARCH GROUP LEADER: JOSE LUIS DIEZ RIPOLLES
PAI CODE: SEJ116

CONTACT
PHONE: 952 132 326 | FAX: 952 132 324
E-MAIL: ripolles@uma.es
INTRODUCTION

The group has a clear multidisciplinary vision of Science. The research carried out takes a journey that starts from economic history, centered on the 19th and 20th centuries in Spain and Andalusia especially and culminates with the development of aspects related to the current economy in the framework of the Mediterranean. It studies the process of transformation of society and reaches the present, observed with the tools of tourism marketing and new technologies. Its objective is to consolidate and expand the study of the different economic sectors. In addition, taking into account a concern for the transfer of knowledge to society and the adaptation to university teaching.

RESEARCH TOPICS

- Statistical reconstruction of 19th and 20th century transport series: Commercial shipping.
- Tourism and development of the territory: food, wine and products with AO and PGI.
- Brand, territory, AO and PGI in the economic and historical framework.
- History of The Present y New technologies.
- Educational Innovation: Economic History and Tourism Marketing.
- Border Studies: Economic, Political and Tourism Perspectives in the 20th Century.
- Yesterday and today of Tourism and Cinema.
- The tourist 4.0 and the implementation of digital communication tools.
- Territory brand personality traits through the analysis of content in social networks.
- Sustainable Development Goals (SDG) and economic sectors.

SCIENTIFIC-TECHNICAL SERVICES

- Trade and internationalization of AO and PGI products.
- Branding and brand implementation processes.
- Marketing and strategic communication advice services, press services, public and private institutions within the framework of Economic history and the Present.
- Collaboration with public and private historical archives.
- Business history studies.
- Organization of congresses, conferences, courses, etc.
ECONOMIC ANALYSIS

INTRODUCTION

The research group "Economic Analysis" based in the Department of Economic Theory and Economic History, Faculty of Economics, aims the study of the economy at an aggregate level, applying modern and rigorous tools to the analysis and evaluation of main macroeconomics problems, including debt crisis and technological aspects of economic growth.

RESEARCH TOPICS

- Dynamic Macroeconomics.
- Exchange Types.
- Labor Economics. The Job Market.
- Productivity and New Technologies.

SCIENTIFIC-TECHNICAL SERVICES

- Studies on the economic aspects of markets.
- Reports and analysis of the labor market.
- Implementation of new technologies to increase productivity in companies.
- Studies on the economic aspects of markets.

RESEARCH GROUP LEADER: JOSE LUIS TORRES CHACON
PAI CODE: SEJ122

CONTACT
PHONE: 952 131 247  |  FAX: 952 131 299
E-MAIL: jtorres@uma.es
INTRODUCTION

This research group has over 20 years experience in the study of economics related to the welfare and quality of life of citizens. Their research on economic policy, international cooperation and income distributions, among others, has allowed them to work with different public service organisations and nongovernmental organisations (NGOs).

RESEARCH TOPICS

- Methodological aspects and applications of the income distribution.
- Indicators of poverty and inequality.
- Associated social welfare functions (methods and applications).
- Relations between equity and growth.
- Redistributive and social policies.
- Aviation and quality of life.
- Environment.
- International cooperation.
- Strategic planning.
- European Union.
- Development policies.

SCIENTIFIC-TECHNICAL SERVICES

- Advice given on the measurement of inequality and poverty.
- Analysis of the labour market.
- Economic impact studies.
- Scientific and technical advice on matters of international cooperation and economic and social development policies.
- Economy and social welfare educational material development.
- General advice given on different lines of research.

RESEARCH GROUP LEADER: ANTONIO FERNÁNDEZ MORALES
PAI CODE: SEJ124

CONTACT
PHONE: 952 137 189  |  FAX: 952 137 259
E-MAIL: afdez@uma.es
INTRODUCTION

This research group located within the Department of Applied Economics, Faculty of Economics, devoted to the study of supply and demand of labour, mainly for application in social policy and labour integration, both for public and private sectors.

RESEARCH TOPICS

- Educational mismatch: over-education and infraeducation. Productivity and educational level.
- Income, consumption and savings.
- Deficit skills, productivity and wages in the Andalusian tourism sector.
- Study of public policy and labour integration of disabled persons.
- Estimation of the importance of women in companies of Andalusia.

SCIENTIFIC-TECHNICAL SERVICES

- Yield Management in companies.
- Evaluation of public funds into regional development.
- Performance studies related to work quality in various productive sectors.
- Research on public policy from different social groups (disabled, women, youth, elderly,...).
- Consulting and assistance to the private sector and public administrations.

RESEARCH GROUP LEADER: ALEJANDRO GARCÍA POZO
PAI CODE: SEJ139

CONTACT
PHONE: 952 131 180 | FAX: 952132075
E-MAIL: alegarcia@uma.es
SOCIAL INDICATORS

INTRODUCTION

The research group Social Indicators of the Faculty of Economy and Business Sciences specializes in the analysis of surveys and the econometric modeling of companies. Thus, the 9 members of the research staff (each of them has obtained a PhD degree) analyze the relationship between performance and satisfaction at work. As source for the studies they use surveys conducted by Andalusian and national public bodies. In addition, they realize studies on the labour market looking at, e.g. the impact of education on the insertion in the labour market and the subsequent steps in the career, or the gender or immigrant pay differentials.

RESEARCH TOPICS

- Education economy.
- Labour economy.
- Statistics and applied econometrics.
- Health economy.
- Social indicators.

SCIENTIFIC-TECHNICAL SERVICES

- Cost evaluation of the disregard of psychosocial risks prevention at work.
- Analysis of surveys.
- Advisor for:
  - Educational planning.
  - Immigration.
  - Satisfaction at work.
- Educational production and cost functions.
- Economic return of education.
- Organization of specialized courses and congresses.

RESEARCH GROUP LEADER: ANTONIO CAPARROS RUIZ
PAI CODE: SEJ157

CONTACT
PHONE: 952 131 163
E-MAIL: antonio@uma.es | WEB: http://webpersonal.uma.es/~antonio/antonio.htm
ECONOMETRICS

INTRODUCTION

The research group "Econometrics" is mainly composed of professionals dedicated to the study of models and economic forecasts. They belong to HISPALINK, research network that integrates sixteen universities and whose main objective is to review the analysis of the current situation and the economic prospects of Spain’s regions.

RESEARCH TOPICS

- Regional Demoeconometric Models.
- Economic Indicators.
- Tourism Statistics.
- Sport Statistics.
- Economic Forecasts.

SCIENTIFIC-TECHNICAL SERVICES

- Economic analysis of various regional activities (tourism, sport ...).
- Technical advice in the analysis of economic indicators.
- Modeling and economic forecasts.
- National accounts and input-output tables.

RESEARCH GROUP LEADER: JOSE MARIA OTERO MORENO
PAI CODE: SEJ160

CONTACT
PHONE: 952 131 200 | FAX: 952 131 294
E-MAIL: jmotero@uma.es
INTRODUCTION

The Legal History research group of the Department of Special Private Law is specialized in the analysis of the historical and legislative evolution of public and private legal institutions and in the study of the work of Andalusian jurists and politicians or those related to Andalusia. This team of scientists has a great curriculum in research and teaching. Its members are part of important research projects. His works are relevant for public administrations and private entities interested in the study and dissemination of knowledge of the historical evolution of norms and institutions, based on historical archives.

RESEARCH TOPICS

- Roman public and private law.
- Sanitary law. Historical and international perspective.
- History of Labor Relations. Methodology, doctrine and teaching of the History of Law and Labor Relations.
- Historical-legal studies on women.

SCIENTIFIC-TECHNICAL SERVICES

- Historical-legal and political studies from historical archives.
- Collaboration on maritime, aeronautical and tourist terminology in relation with commercial law.
- Interpretation of current regulations, according to their historical-legal evolution.

RESEARCH GROUP LEADER: PATRICIA ZAMBRANA MORAL
PAI CODE: SEJ163

CONTACT
PHONE: 952 132 263
E-MAIL: pzambrana@uma.es
INTRODUCTION

The research group Management and Leadership of Companies of the Department of Accountancy and Management, Faculty of Economics and Business Studies is specialized in the cost analysis of different business sectors and the study of the position of women in Spanish universities. A strong experience is the basis to conduct gender-related business studies and studies about cost control in universities, companies and public administrations.

RESEARCH TOPICS

- Analysis of the situation of women in the University from a gender perspective.
- Organization, account planning, cost calculation, cost analysis and cost control for: - Universities. - Public sports facilities. - Companies of the health sector. - Audio visual companies. - Tourism and hotel business.
- Suitability assessment of economic and financial accounting instruments, informative and analytic, for co-operatives as well as studies focused on consolidation.
- Comparative analysis of the accounting normalization in Spain and the European Union.

SCIENTIFIC-TECHNICAL SERVICES

- Edition of reports from a gender perspective.
- Cost planning and cost control for universities.
- Accounting adaptation for companies.
- Product cost calculation.
- Adaptation to the European Union accounting directives.
- Accounting training courses.

RESEARCH GROUP LEADER: Mª AMPARO BENTABOL MANZANARES
PAI CODE: SEJ168

CONTACT
PHONE: 952 131 241 | FAX: 952 132 054
E-MAIL: mabentabol@uma.es
ADDRESS: Dpto. Contabilidad y Gestión. Facultad de CC. Económicas y Empresariales. Campus de El Ejido, s/n. 29071- Málaga
INTRODUCTION

EURights focuses its research on the exercise of Fundamental Rights within Europe. Fields of interest include the exercise of rights in a multilevel context, rights related to political participation, rights related to free movement of people, migrations, rights and institutional organization, gender and rights.

RESEARCH TOPICS

- Legal systems of Andalusia and European Union.
- Relationship between jurisdictions.
- Fundamental rights of citizens (National, EU citizens, foreign residents and inmigrants).
- Juridical interpretation and Legal Rights.

SCIENTIFIC-TECHNICAL SERVICES

- Making reports and legal opinions on Law (European, Autonomic and Local).
- Conducting legal opinions on fundamental rights.
- Advice on immigration policies. Rights of citizens.
- Studies on the legal status of women. Gender Policy.

RESEARCH GROUP LEADER: ANGEL RODRIGUEZ-VERGARA DIAZ
PAI CODE: SEJ171

CONTACT
PHONE: 952 132 273 | FAX: 952 132 276
E-MAIL: angel.rodriguez@uma.es
INTRODUCTION

A reproach group located in the Faculty of Law of the University of Malaga, which specialises in the study of Administrative Law, with particular emphasis on the regulations, the organisation of the public Administrations and their interrelations, their acts, administrative procedures and the study of the sectoral relations of these public Administrations with the citizens, especially those lying within the sectors of town planning, the environment, the sea coasts and the public waters.

RESEARCH TOPICS

• Administrative Procedures.
• Interadministrative relations.
• Sea Coasts and Maritime safety. Terrestrial waters and Hydraulic Public Domain.
• Territorial infrastructures.
• Plans for the management of the territory and town planning management.
• Environment and Protected Natural Spaces. Environmental standards and environmental guidelines.
• Participation of social groups in administrative activities.

SCIENTIFIC-TECHNICAL SERVICES

• Technical advice on legal matters related to the aforementioned research lines.
• Elaboration of reports on administrative procedures.

RESEARCH GROUP LEADER: MARÍA REMEDIOS ZAMORA ROSELLÓ
PAI CODE: SEJ174

CONTACT
PHONE: 952 132 248
E-MAIL: remedios@uma.es
INTRODUCTION

This research group located within the Department of Applied Economics - Faculty of Economics - University of Malaga; is dedicated to the management of revenue and public expenditure. Their fields of action are autonomous Finance, Social Security, public finance and other administrations, mainly regional and local.

RESEARCH TOPICS

- Social Security Economy.
- Fiscal reforms.
- Financing on regional and local levels.
- Estimating budget balances of Autonomous Communities.
- Health Satellite Account in Andalusia (National Accounts).
- Culture Satellite Account in Andalusia.

SCIENTIFIC-TECHNICAL SERVICES

- Effects of public spending on capital formation.
- Social security and income distribution.
- Analysis and economic evaluation of various public sector activities (culture, leisure, health,...).
- Territorial distribution of financial resources for a given activity.

RESEARCH GROUP LEADER: JESÚS SALVADOR GÓMEZ SALA
PAI CODE: SEJ176

CONTACT
PHONE: 952 131 220 | FAX: 952 131 212
E-MAIL: sala@uma.es
INTRODUCTION

A research group that is part of the department of Economic Theory and History of the Faculty of Economics of the University of Malaga, within the area of fundaments of economic analysis. Its research mostly deals with the areas of financial and banking economy, within the Game theory applied to economy, and in technological change for financial entities.

RESEARCH TOPICS

- Financial economy. Production system in financial entities.
- Study and analysis of banking economy.
- Game theory applied to economy.
- Experimental economy.
- Regulation and technological change in financial entities.

SCIENTIFIC-TECHNICAL SERVICES

- Regulation of the solvency and stability of the banking system.
- Strategies for facing the fusion or acquisition of banking entities within the same geographical territory.
- European integration of financial entities.
- Advice for the expansion of new banking products.

RESEARCH GROUP LEADER: ANA LOZANO VIVAS
PAI CODE: SEJ194

CONTACT
PHONE: 952 131 256 | FAX: 952 131 299
E-MAIL: avivas@uma.es
INTRODUCTION

This research group of University of Malaga has extensive experience in teaching and research. Highlighted amongst their work, is the many collaborations they have with both private and public businesses. At present, these researchers are working together with University of Seville in carrying out a management plan of gardens and parks in relation to tourism. The work carried out by this research group can be of interest for entities that may want to improve its tourism image, in addition to increasing the service quality offered to tourism, such as cities, museums and interpretation centers etc.

RESEARCH TOPICS

- Analysis of tourism, paying attention to specific tourism.
- Infrastructure and transport networks.
- Demography and urban planning.
- Development, tourism and environment.
- Elaboration of teaching materials in tourism economy.
- Tourism and heritage.

SCIENTIFIC-TECHNICAL SERVICES

- Inventory and potential tourist performances.
- Analysis of indicators of competitiveness and sustainability.
- Assistance on strategic plans.
- Diagnosis of tourist destinations.
- Planning and tourism policy.
- Implementation and development of tourism observatories.
- Development of teaching materials in tourism economy.

RESEARCH GROUP LEADER: ENRIQUE TORRES BERNIER
PAI CODE: SEJ219

CONTACT
PHONE: 952 131 273 | FAX: 952 137 259
E-MAIL: ejtorres@uma.es
INTRODUCTION

The research group Due process in a Rule of Law state of the Department of Political Science, Public International Law and Procedural Law focuses on the analysis and the study of the law and acts as well as advisor for justice specialists. This group is in collaboration with various ibero-american countries with the intention to approximate and finally equate the legal systems to the ones used in developed countries. Among the international cooperations one project is standing out: the creation of a contentious administrative legislation for litigations. Actually, the research group wants to implement a mediation system to expedite proceedings in matrimonial lawsuits.

RESEARCH TOPICS

- Judicial protection of consumers and users in passenger air transport.
- Mediation.
- International judicial cooperation.
- Procedural aspects of maritime navigation.
- Liability claims in case of public liability insurance of public authorities.
- Health liability.
- Illegal occupation of real estate.
- Gender Violence.
- Predictive justice. Climate Justice.
- El uso de las nuevas tecnologías en la Administración de Justicia.
- Procedural aspects of antitrust law.

SCIENTIFIC-TECHNICAL SERVICES

- Juristic advisor in various matters.
- Specific training of lawyers related to the research topics.
- Organization of congresses about international cooperation.

RESEARCH GROUP LEADER: MARIA LETICIA FONTESTAD PORTALÉS
PAI CODE: SEJ252

CONTACT
PHONE: 952 132 153
E-MAIL: lfp@uma.es
INTRODUCTION

This research group has an extensive research experience in the area of Commercial Law.

RESEARCH TOPICS

- Responsibility of tourism enterprises.
- Tourism services user protection.
- E-commerce and consumer protection.
- Societies, change control, minority shareholders and stock market.
- Financial crisis and the design of bankruptcy solutions.
- Study and proposal for the development of a regulation for the Andalusia tourism law regarding the tourism industry.
- The development of new technologies and their influence on private law.

SCIENTIFIC-TECHNICAL SERVICES

- Legal advice on business law.
- Realisation of legal expertise: Conflict about the implementation of tourism standards. Protection of property prior to the acquisition of title of industrial and intellectual property. Damage and responsibility in the areas of e-commerce and tourism. Commercial law in general.
- Legal audit: Data protection and Web pages.
- Legal expertise.
- Creation and publication of teaching material related to business activity.
- Development of texts and compilation material for the pre-legislative stages in private law.
- Arbitration and mediation in the commercial field.

RESEARCH GROUP LEADER: JUAN IGNACIO PEINADO GRACIA
PAI CODE: SEJ263

CONTACT
PHONE: 952 132 143  |  FAX: 952 132 338
E-MAIL: juanignacio@uma.es
INTRODUCTION

This research group consists of 8 members. Research is focused on the study and analysis of public accounting and management in public administrations, municipal councils and universities. In their approach to the new technologies, the researchers have developed computer software to facilitate economic management in companies. They also have led various studies about cost management in hospitals, public administrations and real-estate agencies.

RESEARCH TOPICS

- Accounting analysis, cost calculation and indicator management for local institutions.
- Implementation of the project Spanish Federation of Municipalities and Provinces (FEMP)
- Accounting analysis, cost calculation and indicator management in the areas real-estate, construction and non-profit institutions.
- Interactive multimedia teaching of accounting.
- Design and personalization of models for cost calculation and indicator management for universities.
- Analysis of resources applied by Andalusian municipalities to services beyond their responsibilities.

SCIENTIFIC-TECHNICAL SERVICES

- Model for calculation, control and reduction of costs with management indicators, including the automatization (custom-made software):- Construction and real-estate companies.- Municipalities.- Non-profit organisations, NGO and foundations. -Universities
- Organization of conferences and congresses about cost calculation and indicator management.
- Online course for entrepreneurs of SMEs.
- Online course accounting for municipal management.

RESEARCH GROUP LEADER: DANIEL SANCHEZ TOLEDANO
PAI CODE: SEJ265

CONTACT
PHONE: 952 132 490 | FAX: 951 952 043
E-MAIL: dirdep018@uma.es
ADDRESS: Dpto. Contabilidad y Gestión. Facultad de CC. Económicas y Empresariales. Campus de El Ejido, s/n. 29071- Málaga
INTRODUCTION
The EURIE research group is linked to four departments of the University of Malaga. Its scientific activity is interdisciplinary and deals with Europe, international migrations and ageing. It mostly focuses upon legal, demographic, welfare and politological issues regarding elderly foreigners, no matter whether older family-joining migrants, affluent international retirement migrants, older economic migrants, older return migrants, or ageing-in-place migrants.

RESEARCH TOPICS
- Cross-border mobility of old people.
- Cross-border legal issues related to foreigners.
- Political representation and participation of foreigners.
- Geriatric and gerontological issues of old age.
- European construction. Community development of Europe.

SCIENTIFIC-TECHNICAL SERVICES
- Advice given to companies and private individuals:
  - Legal regime of the relations between private individuals with foreigners.
  - Social and Health Policies.
- Advice to public administrations:
  - Public legislation and policies on immigration.
  - Legal regime of deprivation of liberty and presumption of innocence.
-
RESEARCH GROUP ON NATURAL RESOURCES

INTRODUCTION

A research group located in the department of Economy and Business Administration of the University of Malaga, which centres its studies on the economic research and viability of the agro-feeding sector, with a special emphasis placed on aquaculture. There is a generalised recognition at present of the possibilities of agro-industry, but the existence of numerous problems and difficulties of various kinds in relation to the economic resources employed and the expectations raised have limited the development of this activity, making it difficult for the results obtained to be as satisfactory as expected. It is for this reason that the study of economic aspects and strategic management are relevant aspects for the growth of this sector.

RESEARCH TOPICS

- The economy and viability of aquaculture and fishing.
- Business strategies of the agro-industrial sector.
- Analysis of Regional International Trade.
- Competitive intelligence and Management of knowledge in organisations.
- Strategic management in companies.
- Economic sustainability of aquaculture.
- Assessment of commercial aquaculture.

SCIENTIFIC-TECHNICAL SERVICES

- Market studies on agro-industry, aquaculture and fishing.
- Viability studies in agro-industrial and aquacultural companies.
- Study of the distribution channels of the agro-industrial sector.
- Strategic positioning of the agro-industrial companies.
- Analysis of business sectors.
- Governance in Aquaculture.
- Aquaculture strategic plans.
- Study on the market for aquaculture and fisheries.

RESEARCH GROUP LEADER: ANTONIO RUIZ MOLINA
PAI CODE: SEJ284

CONTACT
PHONE: 952 131 262  |  FAX: 952131293
E-MAIL: arui@uma.es
INTRODUCTION

The research group Culture and Audiovisual Representation of the Faculty of Communication Sciences at University of Malaga has extensive experience in the study and application of new technologies related to audiovisual communication. The 10 researchers who make up this group belong to the Department of Audiovisual Communication at the UMA and many different Andalusia's media.

RESEARCH TOPICS

- Analysis and classification of audiovisual Works with regard to cultural performances:
  - Analog.
  - Digital.
- Study and use of new audiovisual communication technologies in the revealing of how social behaviour is shaped and reelected.

SCIENTIFIC-TECHNICAL SERVICES

- The completion of anthropological videos.
- Advice on ethnographic photography.
- Analysis of photographic funds.
- Audiovisual analysis.
- Development of teaching materials on interactive audiovisual techniques.
- Training courses:
  - Photography.
  - Photographic analysis.
  - Audiovisual communication.

RESEARCH GROUP LEADER: DEMETRIO BRISSET MARTÍN
PAI CODE: SEJ291

CONTACT
PHONE: 952 132 902 | FAX: 952 133 284
E-MAIL: brisset@uma.es
ADDRESS: Dpto. Comunicación Audiovisual y Publicidad. Facultad de Ciencias de la Comunicación. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

Research group located within the Department of Economics and Business Administration - Faculty of Economics - University of Malaga. Its research interests are organizational problems linked to the incorporation of the company to the knowledge society, with special remark on human, social and ethical issues. The group’s interest is focused on improving the competitiveness of organizations, starting at the point that the human element has turned into a fundamental pillar of the development of their intellectual capital.

RESEARCH TOPICS

- Human resources management in the knowledge society.
- Competitiveness.
- Irregular Behavior.
- Managing equality and diversity. Women, work and enterprise.
- Corporate social responsibility.

SCIENTIFIC-TECHNICAL SERVICES

- Projects for the improvement of human resources management in enterprises.
- Advice on reorganization, competitiveness and redefining jobs.
- Design of new organisational structures related to information and communication technologies (ICT’s).
- Advice on new forms of labour and industrial relations.
- Consultancy on corporate social responsibility, equality, diversity and gender.

RESEARCH GROUP LEADER: MARÍA ANGELES RASTROLLO HARRILLO
PAI CODE: SEJ294

CONTACT
PHONE: 952 131 270  |  FAX: 952131293
E-MAIL: marh@uma.es
INTRODUCTION

This research group located within the Department of Statistics and Econometrics and belonging to the area of Applied Economics. Their study focuses on socio-economic analysis using different statistical methods and the application of Fuzzy Logic to problems of multi-decision and inference.

RESEARCH TOPICS

- Statistical methods in applied economics.
- Application of Fuzzy Logic to the economy and the environment.
- Ecological Economics.
- Graph Theory and Input-Output Analysis.

SCIENTIFIC-TECHNICAL SERVICES

- Application of methods for socioeconomic analysis with diffuse data (Fuzzy Logic).
- Technical advice and implementation of satellite accounts.
- Performing input-output tables from different sectors of the economy.
- Studies of demographic, social and economic factors that affect economic activities in Andalusia.
- Development of environmental indicators.

RESEARCH GROUP LEADER: BÁRBARA DÍAZ DIEZ
PAI CODE: SEJ312

CONTACT
PHONE: 952 137 003 | FAX: 952 137 262
E-MAIL: bdiaz@uma.es | WEB: http://www.estyeco.uma.es
IMPLEMENTATION OF MARKETING STRATEGIES IN THE ANDALUSIAN SMES

INTRODUCTION

The research group Implementation of Marketing Strategies in the Andalusian SMEs of the Department of Business Economy and Administration, Faculty of Economics and Business Studies consists of 12 members specialized in commercialization and market research. All projects are directed at small and medium sized enterprises and the implementation of marketing strategies in the Andalusian SMEs. As part of their projects, the scientists have analyzed and implemented various marketing strategies, have identified market niches, which helped companies to improve economically, have evaluated client behaviour and communication strategies, which have been deployed by the companies.

RESEARCH TOPICS

- Commercial distribution.
- Tourism marketing.
- Franchise.
- Commercial communication.
- Electronic commerce.
- Associated commerce.
- Non-profit marketing.
- Sponsorship.

SCIENTIFIC-TECHNICAL SERVICES

- Market studies and market analysis.
- Marketing plans.
- Trade and urban areas analysis.
- Tourism sector studies.

RESEARCH GROUP LEADER: GUILLERMO JOSE BERMÚDEZ GONZÁLEZ
PAI CODE: SEJ314

CONTACT
PHONE: 952 131 266 | FAX: 952 131 293
E-MAIL: gjbermudez@uma.es
ADDRESS: Dpto. Economía y Administración de Empresas. Facultad de CC. Económicas y Empresariales. Campus de El Ejido, s/n. 29071- Málaga
INTRODUCTION

The research group of Law for tourism activity, of the Department of Civil, State Ecclesiastical and Roman Law, specialises in the study of legislation related to tourism and the remedies for conflict resolution. This team provides legal advice and legal direction to both the public and travel agencies, public authorities and all entities that are related to tourism.

RESEARCH TOPICS

- Rights in tourism, study of an economic sector with a social dimension.
- Provision of legislation in line with new phenomena and all that is related.
- Study and legal research in the field of tourism.
- Study of the contractual aspects.
- Liability of tourist agencies to individuals.

SCIENTIFIC-TECHNICAL SERVICES

- Development of reports and technical advice on tourism.
- Legal and economical analysis of regulations related to tourism.
- Guidance for:
  - Travel agencies.
  - Wholesale travel companies.
  - Sale of travel online.
  - Hotel industry and hotel trade in general.
- Advice on new legal regulations on tourism.
- Advice and counsel management on matters related to tourism:
  - Implementation of tourism standards.
  - Contractual aspects.
  - Damage and responsibility in the tourism sector.

RESEARCH GROUP LEADER: ANTONIO GALVEZ CRIADO
PAI CODE: SEJ325

CONTACT
PHONE: 952 137 124
E-MAIL: ancr@uma.es
INTRODUCTION

This research group dedicated mainly to political and economic management in the tourism sector. The current tourism environment is continually changing, this requires companies to search for effective ways to relate to their markets and incorporate of new technologies, the latter being an important factor for the development of tourism at present.

RESEARCH TOPICS

- Tourism economy of in Andalusian.
- Tourism policy.
- Financial situation of touristic municipalities.
- Tourism and Environment.
- New technologies and employment.
- Economy of New Technologies.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice on economic analysis indicators.
- Study on provincial economic activity.
- Economic analysis of tourism.
- Touristic Legal advice.
- Consulting and advice on new technologies and jobs in tourism activity.
- Models of sustainable development in tourism.

RESEARCH GROUP LEADER: JOSE EMILIO VILLENA PEÑA
PAI CODE: SEJ328

CONTACT
PHONE: 952 131 274 | FAX: 952 131 283
E-MAIL: villena@uma.es
LEGAL ASPECTS OF THE TAXATION OF NON-RESIDENTS

INTRODUCTION

The research group Legal Aspects of the Taxation of Non-residents of the Department of Financial Law, Political Economics and Philosophy of Law of the Faculty Law is specialized in the study on aspects of international taxation. Academic research is focused on the analysis of the fiscal system in Spain in relation to the directives, resolutions and rulings emitted by the European Union. The research group, founded in 2001, consists of 7 members with strong curriculums in research and teaching, it has been involved in numerous collaborations with other universities.

RESEARCH TOPICS

- Analysis of legal implications of the taxation of nonresidents.
- Incidents related to the ruling from the court of justice of the European Union on taxation of non-residents.
- Implications of the directives on the internal system.

SCIENTIFIC-TECHNICAL SERVICES

- Advice and consulting on any question about international taxation.
- Fiscal aspects on an international level.
- Impact of fiscal directives on our internal system.

RESEARCH GROUP LEADER: IGNACIO CRUZ PADIAL
PAI CODE: SEJ337

CONTACT
PHONE: 952 132 297 | FAX: 952 132 175
E-MAIL: ignacio@uma.es
INTRODUCTION

This research group is part of the Faculty of Social and Work Studies of the University of Malaga. Researchers from Social Anthropology, East Asia Studies and Social Work areas compose it. They contribute with some institutions, The Academy of Korean Studies, Universidad Autónoma de Nuevo León, The Korean Foundation and the National University of Incheon, in diverse international projects on transcultural relations applied to the academic area and the social development and sustainability.

RESEARCH TOPICS

- Social Change.
- New types of family.
- Social and Cultural Anthropology.
- Social Development and Ecological-Cultural Development.
- Sustainable Tourism.
- Intercultural relationships.
- Communication and Social Construction.

SCIENTIFIC-TECHNICAL SERVICES

- Social and intercultural mediation.
- Mediations for tourism development.
- Critical analysis of social and political discourse.
- Applied qualitative investigation to tourism, social communication, new types of family, intercultural relationships, etc.

RESEARCH GROUP LEADER: FRANCISCO MANUEL MONTALBAN PEREGRIN
PAI CODE: SEJ343

CONTACT
PHONE: 952 137 424 | FAX: 952 131 100
E-MAIL: fmontalban@uma.es | WEB: http://webdeptos.uma.es/psicologiasocial/prof_fmmontalban.htm
ADDRESS: Facultad de Estudios Sociales y del Trabajo. Ampliación del Campus de Teatinos, s/n. 29071-Málaga
LEGAL IMPLICATIONS OF SOCIAL AND RELIGIOUS MULTICULTURALISM

INTRODUCTION

The research group Legal implications of social and religious multiculturalism has performed numerous researches in various areas, such as immigration, volunteerism, etcetera. The objective of the research group is to catalogue all existing legislative information from these minorities, in order to improve existing coordination regulations. This research can be useful for public administrations that want to modify the services offered to these groups or similarly the norms and regulations. Likewise, these catalogues can be useful for historians who want to further their research in the evolution of immigration or voluntary work in Spain.

RESEARCH TOPICS

- Status of religious denominations in the Mediterranean area.
- Social and religious multiculturalism:
  - The phenomenon of immigration.
- The religious phenomenon of cultural minorities:
  - Freedom of conscience.
  - Minorities in Andalusia.

SCIENTIFIC-TECHNICAL SERVICES

- Study of existing cooperation between the Church and the state:
  - Extent of autonomy.
  - Provincial level.
  - Local area.
- Study of immigration in Spain, with special reference to Andalusia.
- Legal implications of social and religious multiculturalism.
- Study of associations of laity in the Church (brotherhoods, sisterhoods, etc).
- Plans and training techniques of social volunteerism.
- Relationship state – religious denominations with regard to cultural heritage.

RESEARCH GROUP LEADER: ARTURO CALVO ESPIGA
PAI CODE: SEJ344

CONTACT
PHONE: 952 132 319 | FAX: 952 132 338
E-MAIL: acalvo@uma.es
EMPLOYMENT POLICIES, EQUALITY AND SOCIAL INCLUSION

INTRODUCTION

This group includes teachers and fellowship students of the Department of Labor Law at the University of Malaga. They are a group that studies the labor law issues for inclusion and equality of social groups. In 2005, the group received a grant from the Institute for Women (Ministry of Equality) for the creation of the Legal-Labor Observatory on Gender Violence, (http://www.olvg.uma.es).

RESEARCH TOPICS

- Organizing working time and employment.
- Protecting the security and health of workers.
- Analysis of active employment policies in the autonomous community of Andalusia.
- Promoting social economy and self-employment.
- Policies of social inclusion.
- Employment Policies: equality based on gender.

SCIENTIFIC-TECHNICAL SERVICES

- Advice on organizing working time and job quality.
- Advice on social integration of foreigners.
- Development and implementation of Equality Plans for businesses and administrations.

RESEARCH GROUP LEADER: FRANCISCO VILA TIERNO
PAI CODE: SEJ347

CONTACT
PHONE: 952 132 318  FAX: 952 132 338
E-MAIL: fvila@uma.es
INTRODUCTION

This research group belongs to the Department of Finance and Accounting - School of Economics. Its research area includes economic and financial analysis of companies and entities at a national level and within the European framework.

RESEARCH TOPICS

- Economic and financial analysis.
- Profitability and solvency.
- Business productivity.
- Actuarial Science.

SCIENTIFIC-TECHNICAL SERVICES

- Adaptation of the accounts of public entities to the Public Accounts General Plan (PGCP).
- Designing Systems of Social Security.
- Prediction models for solvency and insolvency in companies.
- Improved productivity studies in companies.

RESEARCH GROUP LEADER: MANUEL ANGEL FERNANDEZ GAMEZ
PAI CODE: SEJ349

CONTACT
PHONE: 952 132 830  FAX: 952 132 830
E-MAIL: mangel@uma.es
INTRODUCTION

The research team Human Resources, Organizational Change, and Labor Market, located in the Department of Economics and Business Administration at the University of Malaga, specializes in research, innovation, and knowledge transfer activities in the field of human resources, strategic management, entrepreneurship, quality management, and corporate social responsibility. The team provides support to private sector and public administrations, particularly in the context of Malaga province and the tourism sector, while also collaborating on interdisciplinary studies in broader geographical and sectoral areas.

RESEARCH TOPICS

- Service Quality and Corporate Social Responsibility: SMEs, Public Administration, Sustainable and Regenerative Tourism, CSR and Development Cooperation.

SCIENTIFIC-TECHNICAL SERVICES

- Development and implementation of specific training models.
- Auditing and diagnosis of training efficiency in companies and organizations.
- Consultancy on various aspects of innovation, quality, and corporate social responsibility in the direction and management of companies.
- Analysis and proposals for the labor inclusion of disadvantaged groups.
- Development of strategic plans in companies and institutions.
- Sustainability planning for efficient management.
- Design and implementation of tailor-made business projects.

RESEARCH GROUP LEADER: JOSEFA GARCIA MESTANZA
PAI CODE: SEJ354

CONTACT
PHONE: 952 133 256
E-MAIL: jgm@uma.es
ADDRESS: Dpto. Economía y Administración de Empresas. Facultad de Turismo. Campus de Teatinos, s/n. 29071- Málaga
E-BUSINESS IN ANDALUSIA: ELECTRONIC COMMERCE AND TELECOMMUTING IN COMPANIES.

INTRODUCTION

Research group located in the Department of Economics and Business Administration formed by researchers from both the University and the business world. Its research focuses on the study and application of Information Technology from the viewpoint of business management, paying special attention to digital companies in the e-business sense.

RESEARCH TOPICS

- E-business in Andalusian companies.
- E-commerce and telecommuting in companies.
- Business Models: business to business, business to consumer and business to employee.
- Organizational Structure and Information Technology.
- Organisational Models of e-Administration.
- CRM (Customer Relationship Management) in the tourism sector.
- Academic entrepreneurship

SCIENTIFIC-TECHNICAL SERVICES

- Studies of scientific and technical feasibility of R&D projects.
- Analysis of business models for electronic commerce.
- Personalized empirical studies, using an own developed online surveys platform.
- Benchmarking analysis of technologies and services.
- Using of TAM model (Technology Acceptance Model) to evaluate technologies’ use.

RESEARCH GROUP LEADER: ANTONIO PADILLA MELENDEZ
PAI CODE: SEJ356

CONTACT
PHONE: 952 951 084  |  FAX: 952 131 293
E-MAIL: apm@uma.es  |  WEB: http://www.gieb.uma.es/
INTRODUCTION

The research group Productivity and Efficiency Analysis is located in the Department of Finance and Accountancy in the Faculty of Economics and Business Studies. Research is focused on the analysis of individual companies (from the tourism and insurance sector) applying frontier efficiency methodologies in order to test economic hypotheses. 7 researchers compose this interdisciplinary research group, which has more than 8 years of experience in this area and disposes of a strong background in teaching and research.

RESEARCH TOPICS

- Organizational form, productivity and efficiency.
- Distribution channels.
- Market share, yield and market power.
- Take-overs, mergers and scale economies.
- Diversification vs. specialization hypotheses.
- Insurance companies.
- Tourism sector.

SCIENTIFIC-TECHNICAL SERVICES

- Economic advisor:
  - Insurance companies.
  - Tourism sector.
- Touristic marketing plans.
- Organization of conferences and congresses about the research topics.
- Training courses on finance and accounting.
- Evaluation and implementation of human resources.

RESEARCH GROUP LEADER: MARIA RUBIO MISAS
PAI CODE: SEJ363

CONTACT
PHONE: 952 131 236 | FAX: 952 131 236
E-MAIL: mrubiom@uma.es
ADDRESS: Dpto. Finanzas y Contabilidad. Facultad de CC. Económicas y Empresariales. Campus de El Ejido, s/n. 29071- Málaga
INTRODUCTION

This research group analyzes contemporary Spanish economic history, in general, and Andalusian, in particular. His research works cover all economic sectors, and lately his publications on the historical evolution of the tourist phenomenon stand out, a decisive driving force both for the national economy and for that of the Autonomous Community of Andalusia.

RESEARCH TOPICS

- Industry.
- Commerce.
- Consumption.
- Statistical reconstruction of the main production sectors in the nineteenth and twentieth centuries.
- Tourism.
- Transport.
- Education.
- Agriculture.

SCIENTIFIC-TECHNICAL SERVICES

- Studies on processing patterns and intersectorial relations in the agro-industrial activities.
- Economic and Historical Statistic in Andalusia in the nineteenth and twentieth centuries.
- Studies on historical perspectives on education and culture.
- Counseling in courses, seminars and congresses organization.
- Studies in business history.
- Studies about economic and social tourism history.
- Advice to touristic enterprises.
- Collaborations with public and private historical archives.
- Historical and cultural advice to press services, public and private institutions.

RESEARCH GROUP LEADER: CARMELO PELLEJERO MARTÍNEZ
PAI CODE: SEJ364

CONTACT
PHONE: 952 131 226  |  FAX: 952 131 299
E-MAIL: cpellejero@uma.es
INTRODUCTION

Most of the companies maintaining the vitality of Spain's market are small and medium sized enterprises (SMEs), however communication management and the use of new technologies are still very rare in this sector. For this reason, the research group Public relations in Small and medium sized enterprises of the Department of Audiovisual Communication and Advertising, Faculty of Communication Science studies the means of communications used in these companies. The 10 members of this research group focus on the elaboration of guidelines to facilitate the improvement of public relations of these companies.

RESEARCH TOPICS

- Study of the communications in small and mediumsized companies.
- Application of communication technologies for productivity improvement, use of certain tools (email, websites, intranet, video conferences) and their advantages.
- Elaboration of a communications methodology specifically tailored to fit the needs of SMEs.

SCIENTIFIC-TECHNICAL SERVICES

- Communication campaigns.
- Planning of communications in SMEs
- Advisor for communications.
- Trainings in corporate communications management.
- Organization of conferences about public relations in SMEs.
- Publication of research results.
**INTRODUCTION**

The "Labcom" group is an interdisciplinary research team that studies the field of journalistic communication and new technologies. Specializes in advising companies in all sorts of topics related with the communications media, the group has worked for various business sectors including computer companies, radio media, news agencies, etc.

**RESEARCH TOPICS**

- Adaptation of the communications media to new technologies.
- Digital Journalism.
- Corporate image.
- Designing of all kinds of publications.
- Analysis of visual communication and audience impacts.
- Communications media evolution on the internet and other mobile devices.

**SCIENTIFIC-TECHNICAL SERVICES**

- Advice for the adaptation of the media to new technologies.
- Study and analysis of the visual processing of the information.
- Design of TV programming formats.
- Redesigning of corporate image, journals and websites.

**RESEARCH GROUP LEADER:** Mª de los Ángeles Cabrera González

**PAI CODE:** SEJ389

**CONTACT**

**PHONE:** 952 133 298  |  **FAX:** 952 137 052

**E-MAIL:** mac@uma.es  |  **WEB:** http://www.umalab.com

**ADDRESS:** Dpto. de Periodismo. Facultad de CC. de la Comunicación. Teatinos. 29071. Málaga
COMMUNICATION AND POWER

INTRODUCTION

The research group Communication and Power of the Faculty of Communication Sciences has an extensive research curriculum in the area of advertising and audiovisual communication. The scientists that make up this research group make critical analysis observations of the communication used in advertising. Their work attempts to highlight the existing elements between communication and its power, analyzing sexism, gender equality and so forth, with the objective of ensuring that the communication conveyed has a social value.

RESEARCH TOPICS

- Communication and culture of peace.
- Communication and gender studies.
- The study and analysis of governmental advertising and political communication in conventional and unconventional in media.
- Advertising for non-profit associations.
- Prospective institutional and political advertising in the new areas of communication.
- Study of the relations between communication and power.
- Study of new processes and techniques in the creation of advertising and audiovisual products.
- Implementation of new information technologies and the communication process in advertising.

SCIENTIFIC-TECHNICAL SERVICES

- Monitoring and analysis of institutional advertising, NGOs and trade advertising.
- Design and production of interactive audiovisual materials.
- Consultancy of publicity, institutional, social and commercial.
- Courses given on institutional advertising, corporate or commercial.
- Study on institutional advertising communication.
- Location and analysis of filmography.
- Analysis of new advertising techniques.

RESEARCH GROUP LEADER: MARÍA JESÚS RUIZ MUÑOZ
PAI CODE: SEJ390

CONTACT
PHONE: 952 133 288 | FAX: 952 133 284
E-MAIL: mariajesus@uma.es
ADDRESS: Dpto. Comunicación Audiovisual y Publicidad. Facultad de Ciencias de la Comunicación. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group New communication spaces located within the Department of Journalism of the Faculty of Communication Sciences is composed of 10 researchers holding a PhD degree. They are specialized in writing trend reports in the field of communications. One of its research lines is focused on the relationship between communication and international cooperation. In the course of this study, the scientists have been collaborating with major Spanish institutions involved in plans to improve development in third world countries. To contribute to the dissemination of its work, this research team has created a bilingual monograph, the Infoamérica-Iberoamerican Communication Review (Iberoamérica-ICR).

RESEARCH TOPICS

- Communication strategies.
- Creation of technology platforms on the Internet.
- Media systems from the perspective of communication for cooperation.
- Communication and media in Andalusia.
- Media and migratory flows.
- Communication specialized at the local level.
- Journalistic innovation and new media.

SCIENTIFIC-TECHNICAL SERVICES

- Communication consulting.
- Communication strategies.
- Prospective analysis.
- Training courses on the group's research topics.

RESEARCH GROUP LEADER: BERNARDO DÍAZ NOSTY
PAI CODE: SEJ391

CONTACT
PHONE: 952 132 907  |  FAX: 952 137 313
E-MAIL: nosty@uma.es  |  WEB: http://www.infoamerica.org
ADDRESS: Dpto. Periodismo. Facultad de CC. de la Comunicación. Campus de Teatinos, s/n. 29071-Málaga
NEW ADVERTISING AND NEW ECONOMY

INTRODUCTION

This research group of the Faculty of Communication Science consists of 13 members (5 of which have earned a PhD degree). The research staff has an extensive experience in the organization of specialized congresses on interactivity in communication and advertising. One congress, which stands out is COMINTERACTIVA (http://www.cominteractiva.com), held annually in Malaga since 1999, highly respected by researchers and specialized professionals alike. Further academic activity revolves around new ways of advertising, a research, which is valuable for commercial innovation.

RESEARCH TOPICS

- Interactive corporate communication.
- New advertising.
- Unconventional formats.
- New economy.
- Study on product placement in movies and TV series.
- Advertising and stereotypes.

SCIENTIFIC-TECHNICAL SERVICES

- Organization and creation of specialized congresses on advertisement and related topics.
- Technical advice about methodology and resources for the research in commercial communications (in particular digital) and market research.
- Organization of courses on:
  - New commercial communication strategies.
  - New formats and ways of advertisement.
INTRODUCTION

The research group "Tourism and Territory" located in the Department of Geography, Faculty of Tourism. The activities and lines of work of the group are very varied. Among the various activities it is worth noting: a) The study of carrying capacity in tourist destinations, analyzing the consequences, both environmental and infrastructural. b) The attitudes of residents regarding the impacts of tourism, related to the socioeconomic development of tourist areas and the measurement of phobia tourism. c) These investigations have been combined with the evaluation of tourism policies. d) Works on target image. e) Analysis of rural tourism and sustainable tourism. The works focus on the Costa del Sol although various European, Latin American, African and Asian destinations have been a

RESEARCH TOPICS

- Sustainable development of tourism.
- Tourism and infrastructure.
- Tourism and rural development.
- Tourism and residents.
- Evaluation of tourism policy.

SCIENTIFIC-TECHNICAL SERVICES

- Study and diagnostics of territory and tourism.
- Analysis of the environmental impact.
- Analysis of natural and human resources.
- Location of tourism activities.

RESEARCH GROUP LEADER: RAFAEL CORTES MACÍAS
PAI CODE: SE402

CONTACT
PHONE: 952 133 251
E-MAIL: rcortes@uma.es
ADDRESS: Dpto. Geografía. Facultad de Filosofía y Letras. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group Economical Analysis of Tourism Sector consists of seven researchers and is located in the Department of Applied Economics (Economic) of the University School of Tourism. A highly qualified team realizes market studies in the tourism sector, that are of interest for companies from the hotel industry, who want to know and assure the quality standard of their services.

RESEARCH TOPICS

- Economical analysis of the tourist sector.
- Business studies of the tourism sector.
- Definition of concentration and integration strategies for corporations in the tourism sector.

SCIENTIFIC-TECHNICAL SERVICES

- Tourism destination management.
- Analysis of hotels and their online market presence.
- Online marketing strategies.
- Deployment of Revenue management.

RESEARCH GROUP LEADER: LUIS GONZALEZ GARCIA
PAI CODE: SEJ403

CONTACT
PHONE: 952 132 738 | FAX: 952 132 092
E-MAIL: lgonzalez@uma.es
ADDRESS: Dpto. Economía Aplicada (Estructura económica). Facultad de Turismo. Campus Teatinos, s/n. 29071- Málaga
JUDICIAL COOPERATION IN CRIMINAL MATTERS

INTRODUCTION

The main objective of the research group is focused on the different mechanisms of international cooperation (bilateral and multilateral) in the judicial and criminal field. The fight against terrorism and organized crime on a transnational level needs mechanisms in order to enhance co-operation to make the ideal of justice a reality. These researchers may advise different organizations –public or private– involved in the areas affected.

RESEARCH TOPICS

- Criminal and police cooperation in criminal matters between States in the international arena.
- Spanish conventional practice.
- Extradition.
- Transfer of sentenced persons.
- Terrorism.
- Harmonisation of offenses and penalties.
- Recognition of foreign judgements and judicial decisions.
- Organised crime.
- Drug trafficking.
- International Criminal Court.

SCIENTIFIC-TECHNICAL SERVICES

- Advice given on:
  - Immigration.
  - International cooperation in judicial and criminal matters.
  - Human rights.
- Development of training materials related to Public International Law and International Relations.

RESEARCH GROUP LEADER: ELENA DEL MAR GARCIA RICO
PAI CODE: SEJ405

CONTACT
PHONE: 952 132 169 | FAX: 952 132 338
E-MAIL: egarcia@uma.es
INTRODUCTION

This research group studies the relationship between the Law and Literature, formation of the literary culture of Law and reading culture of Law. In addition, this research group deals with various materials amongst which can be found journalism, psychology for example.

RESEARCH TOPICS

- Legal narrativism:
  - Narrativist theory of law.
  - Legal argument.
- Literary theory of law:
  - Law.
  - Literature.
- Legal theory.
- Rights theory.
- Social rights.
- Equality and gender.
- Civil liberties.

SCIENTIFIC-TECHNICAL SERVICES

- Advice given on equality and gender, theory of rights, social rights to:
  - Public administration (local and general).
  - Institutional fields (local and general).
  - Consultants on equality.
  - Organisations related immigration.
  - Non-profit organisations (NGOs).
- Assistance on legal theory to professional bodies: Professional associations, universities and Education centers interested in this field.
- Advice given on literary theory to Scientific Academies.

RESEARCH GROUP LEADER: CRISTINA MONEREO ATIENZA
PAI CODE: SEJ406

CONTACT
PHONE: 952 137 606
E-MAIL: cmonereo@uma.es
INTRODUCTION

Research group that develops its main activity in areas related to the Law of Building and Construction. The building sector is one of the major economic sectors with obvious implications for the whole society, therefore it’s needed to know in depth the variety of standards that take place in the complex process of building, both with regard to identification, obligations and responsibilities of the actors involved in it, as with the terms of the guarantees to protect the user.

RESEARCH TOPICS

- Real state and Construction Law.
- Legislation to protect consumers and users.
- Educational Innovation in the European area.

SCIENTIFIC-TECHNICAL SERVICES

- Studies on observance and breach of real estate contract. Promoter-builder relations.
- Advising about the rights of consumers and users in contracting with unfair terms (hiring real estate, travel, package distance, etc.).
ADVANCED LEGAL STUDIES: SERVICES OF GENERAL INTEREST, VULNERABLE COLLECTIVES AND THE ENVIRONMENT (ADMINISTRATIVE INTERVENTION)

INTRODUCTION

This group includes several research topics, amongst which are: Services of general interest, whether non-economic (SIGNE) (education, health, social services, housing, water supply and sanitation ...), or economic (SIGE) (energy, telecommunications, transport, etc.). The administrative services; especially with regard to e-administration, transparency and good governance and data protection. Services of general interest and the environment, the public and private articulation of legal relationships and their benefit content.

RESEARCH TOPICS

- The organisation and performance of public administrations: State system, autonomous regime, local regime and local authorities.
- General economic regulation: Publications, liberalisations, privatisations and regulated activities.
- Distribution of powers between public administrations, collective services and regulation.
- General interest services, both economic and non-economic.
- Network services: energy, telecommunications, transport.
- Administrative services: e-administration, transparency and good governance, and data protection.
- Education, health, social services and housing.
- Vulnerable collectives.

SCIENTIFIC-TECHNICAL SERVICES

- The taking of dictums and reports on administrative law (administrative resources, data protection and transparency...) and especially on the lines of research (services of general interest).
- Legal advice given on lines of research services of general interest (energy, transport, education, health, house...). E-administration, transparency and data protection.

RESEARCH GROUP LEADER: ISABEL GONZÁLEZ RÍOS
PAI CODE: SEJ410

CONTACT
PHONE: 952 132 239 | FAX: 952 132 338
E-MAIL: isa_gonzalez@uma.es
INTRODUCTION

This research group has over 15 years of experience in the field of technological innovation and quality. Its research is applicable to corporations and other organizations aiming to establish a strategic and integrated management system linked to technology, R&D&i and quality.

RESEARCH TOPICS

- Quality management and corporate social responsibility.
- Integrated management systems (quality, environment, occupational safety and health, R&D&i, technology monitoring and corporate social responsibility).
- Technological innovation. Technology and innovation management.
- National and regional systems of innovation.
- Strategic alliances and knowledge management.
- Quality. Strategic management and social responsibility at universities.
- Management of family businesses.

SCIENTIFIC-TECHNICAL SERVICES

- Development of strategic plans.
- Implementation of strategic management systems.
- Development of corporate social responsibility reports.
- Design and implementation of systems of technology monitoring.
- Design and implementation of integrated management systems.
INTRODUCTION

The research group Multi-criteria decision making applied to the public sector of the Department of Applied Economics (Mathematics), Faculty of Economy and Business Sciences, centers its studies on public and private economy. Research work is quite diverse and covers various sectors, like agricultural census, health services, higher education, industrial logistics and even the touristic sector with respect to environmental sustainability and sustainable forest management. The group was founded in 1991 and consists currently of 11 members (graduated from Business Studies and Mathematics) with an extensive experience in research and teaching, numerous national and international collaborations with other universities, public administrations and private bodies.

RESEARCH TOPICS

- Multi-criteria decision making.
- MCDM applied to the public sector.
- Tourism sector.

SCIENTIFIC-TECHNICAL SERVICES

- Advisor to private companies and public administrations in the decision making analysis.
- Economic advice about forest management, environmental management and sustainability.
- Analysis of sustainability
- Solution for problems in industrial logistics.

RESEARCH GROUP LEADER: RAFAEL CABALLERO FERNANDEZ
PAI CODE: SEJ417

CONTACT
PHONE: 952 131 168 | FAX: 952 132 061
E-MAIL: r_caballero@uma.es
INTRODUCTION

The research group Work and Transportation Management. Ergonomics and Prevention, located in the ETSII in Malaga, is specialized in management, optimization and improvement of public transportation aiming to contribute to the sustainability of the environment. The research staff counts 10 members, all with a strong experience in collaborations with various public and private bodies. Even though the studies are originally limited to transportation only, they can easily be applied to any kind of business area regarding implementation of quality systems, improvement of provided services or reduction and management of complaints from customers.

RESEARCH TOPICS

- Modelling for the integration of management systems in a company.
- Information management and associated control technology.
- Transportation management.
- Management of quality, design and production of goods and services.
- Security management and occupational risk management.
- Quality management.
- Human centered product and work management.

SCIENTIFIC-TECHNICAL SERVICES

- Design and implementation of quality management systems (ISO 9000:2001).
- Deployment of optimization processes for lines and services.
- Redesign of transportation.
- Assessment about the improvement of quality and the reduction of customer complaints.
- Studies about security and health.
- Studies about public transportation.
- Studies about sustainability of transportation.

RESEARCH GROUP LEADER: ELVIRA MAESO GONZALEZ
PAI CODE: SEJ424

CONTACT
PHONE: 951 952 518 | FAX: 952 132 081
E-MAIL: emaeso@uma.es | WEB: http://www.gigtt.uma.es/
29071- Málaga
INTRODUCTION

The research group Theory of Well-Being located at the Department of Economic History and Theory of the Faculty of Economics and Business Studies is specialized in the area of microeconomic theory. These scientists optimize strategies followed by politicians; they also use different models to explain electoral results after elections. A section of the group is focused on public economy, whose studies resulted in the creation of a system that facilitates the distribution process of scholarships among students.

RESEARCH TOPICS


SCIENTIFIC-TECHNICAL SERVICES

- Development of distribution systems:
  - Scholarships for students.
  - Employees in a company.
- Advisor to political parties.
- Design and implementation of employee incentive systems in a company.
- Organization of congresses on economy.

RESEARCH GROUP LEADER: BERNARDO MORENO
PAI CODE: SEJ426

CONTACT
PHONE: 952 131 248  |  FAX: 952 131 299
E-MAIL: bernardo@uma.es
ADDRESS: Dpto. Teoría e Historia Económica. Facultad de CC. Económicas y Empresariales. Campus de El Ejido, s/n. 29071- Málaga
INTRODUCTION

The research group Advanced Audiovisual Contents studies how to integrate innovation in daily life and how to detect people's creativity, transforming it into business opportunities for content industry. In addition, this group aims to set up a manufacturing sector of digital audiovisual content in Andalusia based sound knowledge of market trends (user relationship -their new cultural practices- / contents and its narrative/ new media). The development of this network is supported by the leadership of University of Malaga and different companies with track record in developing content for digital media. It also has collaborators from different universities and other autonomous communities, which translates into an alliance that aims to deepen the user, content and business model, developing and expanding a range of applied research was the ‘Cross-TV’, the convergence of content and interactivity, windows (mobile, Internet and TV/DTT) and users.

RESEARCH TOPICS

- The new user: Cultural practices in the changing landscape of digital consumption.
- User-generated content and identity syndication.
- Content and networks: Virtualization and hipervinculation.
- Innovation in communication and culture, analyze trends (future studies in social sciences).
- Music industry and new cultural practices.

SCIENTIFIC-TECHNICAL SERVICES

- Audience profiling and audience behaviour (who uses it, how uses it, when uses it and why uses it).
- Preparation of audiovisual contents for new media art.
- Future studies in social sciences.
- Methodology for evaluation content.

RESEARCH GROUP LEADER: Miguel de Aguilera Moyano
PAI CODE: SEJ435

CONTACT
PHONE: 952 133 278 | FAX: 952 137 640
E-MAIL: deaguilera@uma.es
ADDRESS: Dpto. Comunicación Audiovisual y Publicidad. Facultad de Ciencias de la Comunicación. Campus de Teatinos, s/n. 29071- Málaga
PSYCHOLOGICAL EVALUATION IN NATURAL CONTEXTS: SPORTS AND CONSUMPTION

INTRODUCTION

• Sport psychology.
• Consumer Psychology.
• Psychology of the organisations.
• Psychology of audiovisual media.

RESEARCH TOPICS

• Evaluation in natural contexts.
• Development of evaluation tools.
• Quality assessment of services.
• Quality management.
• Monitoring and intervention in sports contexts.
• Evaluation of programs/program rating.
• Advice on: Consumers psychology. Marketing psychology. Economic psychology.
• Management and sports marketing
• Organisation of workshops on hypnosis.
• Hypnosis
• Electromyographic Biofeedback

SCIENTIFIC-TECHNICAL SERVICES

RESEARCH GROUP LEADER: VERONICA MORALES SANCHEZ
PAI CODE: SEJ444

CONTACT
PHONE: 952 132 388  FAX: 952 131 100
E-MAIL: vomoraless@uma.es  WEB: http://psicologia.del.deporte.uma.es
INTRODUCTION

This research group consists of several doctor and graduates in economics and business studies. Their work is closely related to the tourism field and economic history of tourism, among other subjects. Therefore, these researchers analyzed various sectors that are of interest to both public and private companies. Part of their work excels in the search for new products to stimulate the supply and demand in tourism. Among this new business approach the promotion of rural, adventure, sports tourism, and public tourist accommodation; such as hostels or paradors, as well as nautical tourism in marinas is emphasized.

RESEARCH TOPICS

- Corporate culture in the tourism sector.
- Growth and internationalization of the tourist business.
- Sustainable development and creation of new products.
- Management of the tourist business in a globalized economy.
- Economic history of tourism.

SCIENTIFIC-TECHNICAL SERVICES

- Diagnosis and impact analysis on tourism.
- Analysis of the steady flow and queues within the port area.
- General coordination of tourist projects.
- Advice given to public companies in the tourism sector.
- Internationalization of the tourist business.
- Sustainable and responsible development of tourism.
- Analysis of adventure tourism.
- Training in corporate networks.
- Implementation of new technologies in the area of human resources.
- Implementation and teaching through e-learning.

RESEARCH GROUP LEADER: INMACULADA MARTÍN ROJO
PAI CODE: SEJ455

CONTACT
PHONE: 952 133 269 | FAX: 952 133 269
E-MAIL: icmartin@uma.es
ADDRESS: Dpto. Economía y Administración de Empresas. Facultad de Turismo. Campus Teatinos, s/n. 29071- Málaga
GLOBALIZATION, TECHNOLOGIES, TEACHING AND LEARNING

INTRODUCTION

The GTEA group (Globalization, Technology, Education and Learning) has as its general objective the design, experimentation and evaluation of digital transformation programs for educational institutions such as companies and training services. Its members constitute an interdisciplinary team from different areas such as pedagogy, mathematics, computer science, psychology, engineering and graphic design. With teaching experience at different levels (from kindergarten to university) and research experience in various educational fields (formal and informal education, lifelong learning, etc.), through national and international projects that forged a solid competence for collaboration.

RESEARCH TOPICS

• Digital transformation of institutions, companies and training departments.
• Technological environments and platforms for training in hybrid and elearning environments.
• Practicum and external practices in professional fields.
• Robotics applied to education.
• Design, experimentation and evaluation of technological innovations in education.

SCIENTIFIC-TECHNICAL SERVICES

• Training evaluation service with CoRubric (https://corubric.com).
• Video annotation service (https://coannotation.com).
• Preparation of reports for external evaluation of training projects with ICT (Mooc, LMS, Robotics, etc.).
• Advice on the digital transformation of institutions, companies and training departments.
• Evaluation of emerging training needs.

RESEARCH GROUP LEADER: MANUEL CEBRIAN DE LA SERNA
PAI CODE: SEJ462

CONTACT
PHONE: 676 372 489
E-MAIL: mcebrian@uma.es | WEB: http://gteavirtual.org/
ADDRESS: Dpto. Didáctica y Organización Escolar. Facultad de Ciencias de la Educación. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group works in four research topics mainly. One research topic study the assessment and intervention in fostering and adoption procedures (international and national level), other research topics analyze the assessment and intervention on hearing impaired children and their families, other research topics studies of language development and communication and development disorders. Finally, as part of the research topic intervention for gifted children/high capacity children, these researchers have developed a new MentorAc-UMA cognitive enrichment program. This program promotes cognitive enrichment for gifted children/high capacity children. The research members are collaborating with various public administrations responsible for education and adoption, moreover they advice the adoptive and foster families, and parent of children with hearing problems and Down syndrome.

RESEARCH TOPICS

- Temporary foster care and adoption.
- Cognitive, communicative and linguistic development.
- Intervention for gifted children/high capacity children.
- Abnormal development of language and communication.
- Socio-affective development.

SCIENTIFIC-TECHNICAL SERVICES

- Training of personnel from minors protection services and institutions collaborating with family integration: Advisor for foster care families and families selected for adoption.
- Counselling families of children with hearing loss and/or families of children with Down syndrome.
- Design and development of activities for MentorAc-UMA cognitive enrichment program for gifted children/high capacity children.
INTRODUCTION

The research group Adquisition of inductive knowledge schemes is focused on causal cognition. Specifically, this group is interested in how causal knowledge is acquired, represented and used, mediating human behaviour in various cognitive tasks (e.g., inferring causal knowledge from observations, diagnostic reasoning, or decision making).

RESEARCH TOPICS

- Influence of causal reasoning in human associative learning.
- The role of context in interference phenomena.
- Implicit measures of human associative learning.
- Error computation in causal learning as measured by ERP.
- Diagnostic reasoning in clinical settings.
- Situation assessment in the aviation domain.
- Learning processes in anxiety disorders.

SCIENTIFIC-TECHNICAL SERVICES

- Research on cognitive learning.
- Advice on causal inference processes under uncertainty.
- Causal learning applications.
- Experimental study with cognitive processes.
- Training courses about the research topics.
- Conference and Workshops about the research topics.

RESEARCH GROUP LEADER: FRANCISCO JOSE LOPEZ GUTIERREZ
PAI CODE: SEJ469

CONTACT
PHONE: 952 132 514  |  FAX: 952 132 621
E-MAIL: frjlopez@uma.es | WEB: https://www.uma.es/causal-cognition-group/info/101529/presentacion/
ADDRESS: Facultad de Psicología. Campus de Teatinos s/n 29071 Málaga.
INTRODUCTION

The research group Networks and Social Structures of the Faculty of Economics and Business Studies has an extensive curriculum in the study and identification of social networks, analysis of organizations, social classes comparison, and so on. These studies are useful for companies that want to know the response processes of its employees for possible changes in their jobs (new industrialization processes, changes in organization, etc). They are also useful for public administrations interested in understanding the integration of certain society groups or the employment of them.

RESEARCH TOPICS

- Compared social structures.
- Social networks, analysis of organisations and identification processes.
- Labour market and occupational structure.
- Development processes and social change.
- Quality of life and social support.
- Social capital.

SCIENTIFIC-TECHNICAL SERVICES

- The study of job placement in determined groups:
  - Technical vocational training.
  - Graduates.
- Labour market analysis.
- Social capital measurement.
- Social network analysis.

RESEARCH GROUP LEADER: FELIX REQUENA SANTOS
PAI CODE: SEJ471

CONTACT
PHONE: 952 131 336 | FAX: 952 132 525
E-MAIL: frequena@uma.es
INTRODUCTION

The research group called Conflicts, Families and Social Intervention has been active for 10 years and is specialized in social research applied to social policies and social welfare. This is why the 10 components develop their lines of research in the analysis of various social issues such as families, gender, transgender, interculturality, social tourism, the elderly, Social Services, disability, loneliness, among others. In addition, these scientists carry out research studies of a social nature, research contracts with companies and social organizations, as well as technical advice to public bodies. He has a long history of working with institutions such as the Junta de Andalucía, IMSERSO, Escuela Andaluza de Salud Pública and various companies and / or third sector. Finally, it also collaborates with various professional and research networks, in multiple national and transnational projects.

RESEARCH TOPICS

- Social services and Welfare Policies.
- Gender and transgender.
- Social Services.
- Interculturality.
- Families.
- Elderly and loneliness.
- Social tourism.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice to social organizations, public bodies and companies.
- Social research projects.
- Evaluation of social policies and quality.
- Social and community diagnoses and needs studies.
- Transparency and evaluation of public policies.

RESEARCH GROUP LEADER: Luís Miguel Rondón García
PAI CODE: SEJ518

CONTACT
PHONE: 951 952 190
E-MAIL: luirongar@uma.es
ADDRESS: Facultad de Estudios Sociales y del Trabajo (FEST) Av. Francisco Trujillo Villanueva, 29001 Málaga
LEARNING DISABILITIES AND DEVELOPMENTAL DISORDERS

INTRODUCTION

The research group Learning Disabilities and Developmental Disorders of Department of Developmental and Educational Psychology of Faculty of Psychology consists of a group of specialists in scientific disciplines such as Psychology, Education and Medicine. This multidisciplinary group specializes in the study of Child and Adolescent Neuropsychological Development and the Teaching-Learning Process.

RESEARCH TOPICS

- Specific Learning Disabilities: Dyslexia, dysorthography, dysgraphia, dyscalculia.
- Neuropsychological Prevention of Specific Learning Disabilities.
- Psychological development and perinatal and obstetric factors.
- Disorders in cognitive-language development and social-emotional development.

SCIENTIFIC-TECHNICAL SERVICES

- Early assessment and neuro-psychoeducational prevention of specific learning disabilities and neuropsychological development disorders.
- Neuro-psychoeducational intervention of specific learning disabilities and psychological development disorders.
- Development of training materials for the improvement of literacy and mathematics: reading and writing recognition, reading comprehension, written composition, calculation and arithmetic problem solving.
- Training courses to improve teaching quality related to school learning and learning disabilities.
- Advice on creating interdisciplinary teams working in primary schools.

RESEARCH GROUP LEADER: ISAÍAS MARTÍN RUIZ
PAI CODE: SEJ521

CONTACT
PHONE: 952 131 318
E-MAIL: ismar@uma.es
ADDRESS: Facultad de Psicología. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The Research Group Optimization Multicriteria and Econometric Modelling Applied to Socio-economic Area of University of Malaga is an interdisciplinary group of professional staff (mathematicians, economists, programmers). This group works in statistical and mathematical analysis applicable to different sectors, for example education, transport, energy and labour market.

RESEARCH TOPICS

- Optimization with multiple objectives: methodology, computational implementation and real models.
- Statistical analysis and econometric modeling applied to the socio-economic area.
- Optimal allocation of resources from the education policy perspective.
- Analysis of optimal matching in the labor market of women and men-workers.
- Development of synthetic indexes of inequality, competitiveness, etc.

SCIENTIFIC-TECHNICAL SERVICES

- Development of prediction programs applied to: Economics of Education, Transport Energy and Labour market.
- Optimization-based prediction models.
- Training courses related to the research.
- Reporting on optimal resource allocation.

RESEARCH GROUP LEADER: MARIANO LUQUE GALLEG
PAI CODE: SEJ532

CONTACT
PHONE: 952 131 173  |  FAX: 952 132 061
E-MAIL: mluque@uma.es  |  WEB: https://www.uma.es/opteco
ADDRESS: Facultad de Ciencias Económicas y Empresariales. Campus de El Ejido s/n 29071 - Málaga
INTRODUCTION

The Research Group on Innovation and Technology Education –INNOEDUCA- University of Málaga (Consolidated Andalusian Group SEJ-533) is an interdisciplinary group of professional staff (teachers, mathematicians, computer scientists, graphic designers...) different educational levels that develop products, research and training in the field of Innovation and educational Technology. Since its inception the group has developed an ongoing research work and priorities has been to contact and collaboration with other researchers and national and international centers.

RESEARCH TOPICS

- Web platforms to support teaching and learning.
- Design and evaluation of digital educational materials for teacher training.
- Educational innovation and new technologies applied to education.
- Studies, analysis and impact of the implementation of ICT in teaching practice.
- Training in open environments with MOOC.

SCIENTIFIC-TECHNICAL SERVICES

- Content analysis of textbooks, curriculum materials and educational applications or software.
- Implementation of new technologies as learning tools.
- Implementation of innovative training in companies and public institutions and / or private.
- Improving the quality of education through innovative methods and new technologies.

RESEARCH GROUP LEADER: JULIO RUIZ PALMERO
PAI CODE: SEJ533

CONTACT
PHONE: 952 132 944 | FAX: 952 132 944
E-MAIL: julio@uma.es | WEB: http://www.uma.es/innoeduca
ADDRESS: Facultad de Ciencias de la Educación. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

Public Economy and Equity research group of the University of Malaga is an interdisciplinary group whose research and knowledge transfer activities revolve around economic well-being and equity as general purposes of public policies that seek to improve the standard of living of all the citizens. Thus, we study different aspects related to economic inequalities, inclusive growth or public policies from multiple dimensions.

RESEARCH TOPICS

- Economic inequality, multidimensional poverty and social exclusion.
- Inclusive growth and well-being.
- Economic and social policies.
- Institutional environment, entrepreneurship and employment.
- Public sector efficiency.
- Socioeconomic indicators.
- Human development and international cooperation.

SCIENTIFIC-TECHNICAL SERVICES

- Advice and consulting on public policies regarding inclusive growth and social and territorial cohesion.
- Courses, workshops, conferences and seminars on inequality, poverty and social exclusion.
- Technical reports on progress on the Sustainable Development Goals (SDG).
- Studies and scientific dissemination applied to the well-being of vulnerable and unequal groups.
- Evaluation of the socioeconomic reality and territorial disparities of the city and province of Malaga and other geographical areas.
- Design and estimation of socioeconomic indicators.
- Design of content for training and dissemination for development and international cooperation.
- Analysis of data with different levels of aggregation (people, households, census sections, municipalities, regions, countries...).

RESEARCH GROUP LEADER: ELENA BÁRCENA MARTÍN
PAI CODE: SEJ559

CONTACT
PHONE: 951 952 129 | FAX: 952 137 259
E-MAIL: barcenae@uma.es
ADDRESS: Facultad de Ciencias Económicas y Empresariales. Campus El Ejido, 29071. Málaga
INTRODUCTION

Poverty, illiteracy, low life expectancy, poor environmental quality and great differences in income and human development are endemic to most of the world's population. Hence, there is a growing demand from societies for development policies. The ethical justification for such policies becomes even more poignant when inequalities are due to corruption and unproductive rent-seeking. In this context our aim is to analyze how political and economic institutions, which are ultimately the choice of society, play a pivotal role in improving the well-being of people by building the government's capacity to meet its stated social and economic goals.

RESEARCH TOPICS

- Sustainable development goals.
- Illicit financial flows.
- Human Development.
- Corruption.
- Tourism.
- Cost-benefit analysis.
- Input-output analysis.
- Low- and middle-income countries.

SCIENTIFIC-TECHNICAL SERVICES

- Development and quality of life socioeconomic studies, education and health studies.
- Technical advice on the utilization of indicators for the socioeconomic analysis of tourism.

RESEARCH GROUP LEADER: BIENVENIDO ORTEGA AGUAZA
PAI CODE: SEJ563

CONTACT
PHONE: 951 952 057
E-MAIL: ortega@uma.es | WEB: https://www.uma.es/departamento-de-economia-aplicada-estructura-economica/info/57142/bienvenido-ortega-aguaza/
ADDRESS: Facultad de Turismo. Campus Teatinos, s/n. 29071- Málaga. Facultad de Ciencias Económicas y Empresariales. Campus del Ejido, s/n. 29071- Málaga
INTRODUCTION

The group Digital Marketing Strategies is located in the Department of Economics and Business Administration of Malaga University. Its objective is to contribute to scientific knowledge and socioeconomic development through the study of consumer behavior and organizations, in the context of digital transformation, from a marketing perspective.

RESEARCH TOPICS

- Marketing and market research.
- Adoption and use of digital technologies.
- Consumer behaviour.
- Branding.
- Retail.
- Tourism.

SCIENTIFIC-TECHNICAL SERVICES

- Market studies using qualitative, quantitative and neuromarketing methodologies.
- Studies of consumer behavior in their interaction with digital technologies (smartphone, e-commerce, social networks, electronic games, smart devices, robots, etc.) throughout all phases of the purchase process.
- Analysis of the process of adopting digital technologies by organizations and their results.
- Advice for the implementation of digital marketing strategies.
- Study of the management and perception of the brand.
- Evaluation and design of distribution channels.

RESEARCH GROUP LEADER: SEBASTIÁN MOLINILLO JIMÉNEZ
PAI CODE: SEJ567

CONTACT
PHONE: 952 131 665 | FAX: 952131293
E-MAIL: smolinillo@uma.es; catedracomercio@uma.es | WEB: https://www.catedracomercio.uma.es/emd/
ADDRESS: Departamento de Economía y Administración de Empresas. Facultad de Ciencias Económicas y Empresariales. Campus El Ejido, s/n. 29071-Málaga
INTRODUCTION

The research group SEJ-583: Selection and Management of Talent (SGT) is in charge of generating knowledge regarding the management of people in organizations. This group of researchers study the necessary tools to get the most out of talent and obtain a high degree of knowledge in projecting an innovative and realistic vision of the work world.

RESEARCH TOPICS

- Talent Selection.
- Conflict Management.
- Training and development of people.
- Social psychology.
- Big Data applied to people management.

SCIENTIFIC-TECHNICAL SERVICES

- Advice and consultancy in talent management processes and the development of people and groups in organizations.
- Advice and management of training plans. Bonus training.
ECONOMY AND TAXATION IN THE FACE OF POPULATION AGING

INTRODUCTION

The group of Economy and taxation in the face of population aging is focus on the mechanisms that the legislator could use from an economic point of view but, above all, fiscal so that the public pension system is sustainable and sufficient. To maintain the level of social welfare that characterizes Spain. In this sense, the members of this group have a multidisciplinary scientific training: jurists, economists, and doctors. this training diversity allows to address the study in a global way; as a result, through the group, a monograph and doctrinal articles on the respect has been published.

RESEARCH TOPICS

- Social economy.
- Spanish tax system.
- Agreements of the Toledo pact.
- Studies on life expectancy according to gender.

SCIENTIFIC-TECHNICAL SERVICES

- Effects of tax expenditures on private savings.
- Incidence of complementary pension systems in maintaining of social welfare.
- The propensity to consume in the retired population.

RESEARCH GROUP LEADER: MIGUEL GUTIÉRREZ BENGOECHEA
PAI CODE: SEJ587

CONTACT
PHONE: 952 132 304
E-MAIL: mgutierrez@uma.es
ADDRESS: E.T.S.I. Industriales. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group “Protección internacional de los derechos humanos, seguridad y medio ambiente” (SEJ-593) was created in 2017 by a team of researchers specialized on Public international law, EU Law and International relations. The main goal is to examine and propose solutions, from a legal perspective, to the existing challenges at the international, European, national and local levels in three specific areas: human rights, security and the protection of the environment. This group also cooperates with external experts through the platform of the Observatory of Conflicts of the University of Málaga.

RESEARCH TOPICS

- International human rights law.
- International humanitarian law.
- International criminal law.
- International environmental law.
- Counter-terrorism and fight against radicalization.
- Immigration, asylum and refugee law.

SCIENTIFIC-TECHNICAL SERVICES

- Elaboration of legal opinions for public administrations and international organizations.
- Development and teaching of courses on the international projection of human rights for judicial academies.

RESEARCH GROUP LEADER: ANA MARÍA SALINAS DE FRÍAS
PAI CODE: SEJ593

CONTACT
PHONE: 952 132 125
E-MAIL: asalinas@uma.es | WEB: https://www.observatoriodeconflictos.uma.es/
ADDRESS: Facultad de Derecho. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The objective of the Organizational Performance research group is to analyze the company from a financial perspective. Therefore, it studies the business activity and its evaluation through Financial Performance. The mediating factor of Social Responsibility is also considered.

RESEARCH TOPICS

- ESGC Indicators (Environmental, Social, Governance, Controversies).
- Company Profile in Social Networks.
- Corporate Social Responsibility.
- Organizational Commitment.
- Corporate Governance.
- Boards of Directors.
- International Listed Companies.
- Tourism, Sports, Health.
- Quality Management in Healthcare.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice or consultancy on Improving Corporate Financial Ratios.
- Consulting on Conflict of Interests in Boards of Directors.
- Consulting on Improvement of Work Processes and Business Productivity.
- Human Resources and Labor Productivity Consulting.
- Consulting on ESGC Indicators (Environmental, Social, Governance, Controversies).

RESEARCH GROUP LEADER: MARÍA MERCEDES RODRÍGUEZ FERNÁNDEZ
PAI CODE: SEJ603

CONTACT
PHONE: 951 952 082
E-MAIL: mercedesr@uma.es | WEB: https://goo.gl/KKTKmh
ADDRESS: Facultad Estudios Sociales y del Trabajo. Campus de Teatinos, s/n. 29071- Málaga
OPEN COMMUNICATION IN STARTUPS LEADED BY WOMEN. COMPETITIVE STRATEGIES FOR DIFFERENTIATION AND INNOVATION

INTRODUCTION

This research group aims to provide a better understanding of the situation and the degree of maturity of communication in startups in Andalusia. With special attention to the management of their relationship with their stakeholders, their presence in the media and in the digital environment. It delves into the value that these emerging companies, marked by innovation, give to communication as identifiers of their personality and their corporate image; the communication strategies they implement and the role played by social media in the strategies of these organizations. The general objective of this group is to analyze the role of communication as an essential element throughout the startup creation process, from a gender perspective. To study their behavior, purposes, openness to the outside world, as well as to analyze to what extent their results, competitiveness, differentiation and growth positively affect the integral development of the Andalusian territory. To this objective we must add the response of startups to the economic recession caused by the COVID-19 pandemic where the relationship with stakeholders plays a relevant role.

RESEARCH TOPICS

- Female entrepreneurship.
- Startups.
- Open innovation.
- Communication.

SCIENTIFIC-TECHNICAL SERVICES

- Analysis of startups led by women in a territory.
- Design of policies to support female entrepreneurship
- Women entrepreneurs in rural areas.
- Advice on communication management.
- Detection of target audiences.
- Development of communication plans and communication strategies.

RESEARCH GROUP LEADER: CARLOS DE LAS HERAS PEDROSA
PAI CODE: SEj628

CONTACT
PHONE: 670 947 902
E-MAIL: cheras@uma.es
ADDRESS: Facultad de Ciencias de la Comunicación. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group Feminism, Communication and Cooperation for Social Justice (FEMCOM), composed of expert researchers on communication and feminist studies, works on both academia and professions of communication. The main line of action is gender-based communication, cooperation and defense of human rights, as well as raising visibility and awareness of feminist research and supporting young researchers who begin their career in this area. It is associated with the Ibero-American Network for Research in Communication and Feminism for Social Justice (IBERFEMCOM), a network made up of 38 researchers from 18 universities in 11 countries in the Ibero-American space.

RESEARCH TOPICS

- Gender-based communication.
- Feminism and woman studies.
- Gender inequality and gender violence.
- Hate speech.
- Human rights and cooperation.

SCIENTIFIC-TECHNICAL SERVICES

- Advice on gender-based communication.
- Analysis and creation of media discourses from a gender perspective.
- Analysis of media content and typology of messages with contents of sexist violence and hate speech.
- Actions to prevent hate speech tendencies.
- Qualitative research techniques in communication.
- Cooperation and communication in the defense of human rights.
INTRODUCTION

The Research Group Econometric modeling applied to the socio-economic field of the University of Malaga is an interdisciplinary group that works with statistical, econometric and optimization techniques, applicable to different sectors such as, for example, education, labor market and, in general, to design optimal decisions in the socio-economic and business environment. This group has extensive experience in research, transfer and advisory contracts to public institutions and companies, at the regional, national and international levels. Their consulting contracts have been signed with relevant entities such as La Caixa, Fundación de Cajas de Ahorro (FUNCAS), Instituto Andaluz de la Mujer, OXFAM, Varkey GEMS, Office for Manpower Economics, Department for Education and Skills, Welsh Assembly, etc.

RESEARCH TOPICS

- Causal impact evaluation (public policies).
- Implementation of methodologies for optimal decision making.
- Statistical analysis.
- Quantitative experimental and quasi-experimental techniques.
- Microeconometrics.
- Efficiency.
- Indexes.
- Analysis from a gender perspective.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice to companies and institutions in the evaluation of the impact of programs and projects.
- Advice on the design of optimal decisions in the socioeconomic field.
- Transfer of results to the productive sector.
- Construction of synthetic indicators.
- Evaluation of programs and projects from a gender perspective.

RESEARCH GROUP LEADER: OSCAR DAVID MARCENARO GUTIERREZ MARCENARO GUTIERREZ
PAI CODE: SEJ645

CONTACT
PHONE: 952 137 003
E-MAIL: odmarcenaro@uma.es | WEB: https://www.uma.es/departamento-de-estadistica-y-econometria/info/57846/oscar-david-marcenaro-gutierrez
ADDRESS: Facultad de Ciencias Económicas y Empresariales. Campus de El Ejido, s/n. 29071- Málaga
INTRODUCTION

The GERLAM research group is specialized in the study of occupational and environmental risks in productive environments. It is made up of Industrial Engineers, Chemical Engineers, and healthcare personnel. His works deal with occupational accidents, accident prevention through risk management, monitoring of workers with the use of IoT systems, mobility and environmental sustainability.

RESEARCH TOPICS

- Internet of Things (IoT) for accident prevention.
- Construction Safety.
- Monitoring of workers.
- New technologies applied to prevention.
- Shared mobility systems (carpooling, carsharing).
- Prevention through Design (PtD).
- Psychosocial risks.
- Environmental management systems.
- Educational innovation in OHS.

SCIENTIFIC-TECHNICAL SERVICES

- Integration of IoT systems in companies.
- Scientific and technical feasibility of R+D+i projects in OHS.
- Environmental impact analysis.
- Implementation of management systems.
- Mobility plans.
- Training in Occupational Risk Prevention.

RESEARCH GROUP LEADER: ANTONIO LÓPEZ ARQUILLOS
PAI CODE: SEJ656

CONTACT
PHONE: 951 952 451
E-MAIL: alopezarquillos@uma.es
ADDRESS: E.T.S.I. Industriales. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The “New legal scenarios of government and territory” research group aims to become a reference in the study and research in subjects such as governance, institutional quality, territory and the city, local Administration, urban planning and environment and contribute to the generation of knowledge, as well as its dissemination and enhancement.

RESEARCH TOPICS

- Governance and institutional quality
- Local management
- Citizen participation
- Urban planification
- Sustainability
- Urban planning law
- The jurisdiction of the administrative courts

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice to public and private institutions of an urban and environmental nature
- Technical and legal support to local entities in the implementation of local agendas
- Advice to public administrations in the development of legal regulations and in public procurement processes
- General and specialized training through master’s degrees, own degrees and delivery of training courses at the request of public and private institutions that demand specific training

RESEARCH GROUP LEADER: DIEGO JOSÉ VERA JURADO
PAI CODE: SEJ659

CONTACT
PHONE: 952 132 245
E-MAIL: djvera@uma.es
ADDRESS: Facultad de Derecho. Campus de Teatinos, s/n. 29071- Málaga
PRODUCTION TECHNOLOGIES

- SYSTEM AND AUTOMATION ENGINEERING
- ENERGETICS
- MECHANICAL ENGINEERING MALAGA
- ELECTRIC POWER SYSTEM GROUP
- FLUID MECHANICS
- MICROELECTRONIC DESIGN GROUP (M.D.G)
- MATERIAL BEHAVIOUR AND PROCESSING
- WASTE AND ENVIRONMENTAL TECHNOLOGY
- GRAPHIC DESIGN AND ENGINEERING
- OPERATIONS AND SUSTAINABILITY: TICS, QUALITY AND LABOUR RISK PREVENTION
- ELECTRIC POWER SYSTEMS-MALAGA
- ELECTRIC ENGINEERING MALAGA. RENEWABLE RESOURCES
- THERMAL MOTORS AND ENERGY EFFICIENCY
- MANUFACTURING ENGINEERING
- MACHINE PERCEPTION & INTELLIGENT ROBOTICS
- THERMAL ENGINES- UMA
- OPTIMIZATION AND ANALYTICS FOR SUSTAINABLE ENERGY SYSTEMS (OASYS)
- ADVANCED MANUFACTURING ENGINEERING (AME)
- FLOW CONTROL AND THEIR APPLICATIONS
INTRODUCTION

The group of Systems Engineering and Automatics counts with a large number of qualified personnel, numerous patents (product of their research in the field), laboratories Robotics and Automation of Industrial Processes, an aero-hydrodynamics laboratory of unmanned vehicles and equipment necessary for carrying out the different lines of research that they develop. In addition, point out that this group founded the Andalusian Institute of Advanced Automation and Robotics.

RESEARCH TOPICS

- Teleoperated and Autonomous mobile robots for exploration and rescue applications.
- Mobile Robotics in structured environments (hospitals, museums, large buildings,...).
- Robotic Systems for assistance to minimally invasive surgery.
- Processing images (Three-dimensional maps and satellite change detection).
- Control systems for terrestrial, marine and aerial vehicles.
- Intelligent control systems: Fuzzy systems, neural networks, etc.
- Electric vehicles and technologies for sustainable mobility.
- Automation of logistics system and infrastructure.
- Automation of manufacturing systems.

SCIENTIFIC-TECHNICAL SERVICES

- Design and manufacture of mobile robots for industrial applications and services.
- Automation of manufacturing and production systems.
- Design and production of embedded control systems.
- Applications of robotics to medicine.
- Design and production of mechatronic systems (Goniophotometer for luminaire characterization, X-by-wire systems, haptic systems, etc.)
- Developing systems for electric vehicles and sustainable mobility.

RESEARCH GROUP LEADER: ALFONSO JOSE GARCIA CEREZO
PAI CODE: TEP119

CONTACT
PHONE: 951 952 331 | FAX: 952 132 779
E-MAIL: gcerezo@ctima.uma.es | WEB: http://www.isa.uma.es
INTRODUCTION

Renewable energies are, along with saving energy and an efficient use of energy, a solution for a clean energy future, efficient, safe and autonomous. The research group of "Energetic", of the School of Industrial Engineering at the University of Malaga, develops applications in solar energy to ensure sustainable development through both thermosolar and photovoltaic technologies.

RESEARCH TOPICS

- Renewable energies.
- Characterization of solar thermal systems and components.
- Characterization of solar photovoltaic systems and components.
- Use passive solar energy.
- Solar Weatherization.

SCIENTIFIC-TECHNICAL SERVICES

- Evaluate the thermal behavior of air conditioning systems.
- Energy saving systems and energy efficiency applied to the building.
- New applications of solar energy in cooling systems.
- Residential Automation: wireless connections applied to climate.

RESEARCH GROUP LEADER: JOSE MANUEL CEJUDO LOPEZ
PAI CODE: TEP139

CONTACT
PHONE: 951 952 402
E-MAIL: jmcejudo@uma.es
INTRODUCTION

This research group, established at the School of Industrial Engineering, is composed by 15 permanent researchers, including 11 doctor engineers and 4 graduates researchers. They make their labour both at teaching and researching, and also providing services to industry. The main lines of activity of the group are: * Vehicle engineering: Modeling the dynamic behavior of tires; theoretical and experimental development of intelligent braking systems in cars; test bench simulation; safety-oriented car service behavior. * Biomechanics: Mechanics modeling and simulation of the musculoskeletal system, focusing especially on the lumbar spine, the knee joint and the pelvis; biomechanical design and optimization of orthopedic surgery techniques; kinematic and kinetic analysis of healthy and pathological human movement; development of techniques and technical aids for movement rehabilitation, including the design of orthoses and exoskeletons. * Design and analysis of mechanisms: including synthesis type and dimensional synthesis. * Machine design for industrial applications: projects have been developed in collaboration with companies related to the automotive industry, railway industry, component manufacturing industry ...

RESEARCH TOPICS

- Vehicle engineering.
- Biomechanics.
- Design and analysis of mechanisms.
- Design of machines for industrial applications.

SCIENTIFIC-TECHNICAL SERVICES

- Issuance of official reports for cataloging historic vehicles (accredited by the Ministry of Innovation, Science and Business of Andalusia).
- Advanced mechanical design.
- Design and manufacture of prototype mechanical systems for research and industrial applications (in collaboration with the machining workshop at the University of Malaga).

RESEARCH GROUP LEADER: MARIA PRADO NOVOA
PAI CODE: TEP140

CONTACT
PHONE: 951 952 376 | FAX: 952132691
E-MAIL: maria.prado@uma.es | WEB: http://webdeptos.uma.es/ingenieriamecanica/indexingmec.htm
ELECTRIC POWER SYSTEM GROUP

INTRODUCTION

This research group is an inter-departmental collaboration of the Higher Technical School of Industrial Engineering (E.T.S.I. Industrial, Malaga). It is specialized in studies on planning, control and exploitation of electrical energy systems. This type of studies are of interest for the different parties depending on the electricity market, like consumers and producers as well as the regulating entities, namely the carrier and the marketer. This team, formed of 4 researchers with a PhD degree, has been in collaboration with the most prominent Spanish companies of that sector.

RESEARCH TOPICS

- Planning, control and exploitation of electrical energy systems.
- Electric power markets.
- Optimization techniques for large-scale systems.
- Electric power systems analysis under uncertainty. Probabilistic techniques.

SCIENTIFIC-TECHNICAL SERVICES

- Technical reports and development of models for optimized planning and operation of electric power systems.
- Technical advisor for R&D departments of companies in the electricity sector.
- Development and implementation of deterministic and probabilistic optimization technique models in order to face problems of the electricity sector in particular and those of the industrial production sector in general.

RESEARCH GROUP LEADER: JUAN PÉREZ RUIZ
PAI CODE: TEP144

CONTACT
PHONE: 951 952 351 | FAX: 952 131 091
E-MAIL:jperez@uma.es
ADDRESS: Dpto. Ingeniería Eléctrica. E.T.S.I. Industriales. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

The research group disposes of a modern laboratory with the latest in equipment, both experimental and computational, a team of highly qualified personnel and a broad curriculum in teaching and research, which ensures the reliability of the measurements and provides access to them for any type of organization, in sectors such as aerospace, automotive, energy, water and gas distribution, watersheds, etc.

RESEARCH TOPICS

- Aero-hydrodynamics of vehicles
- Sediment transport and erosion
- Combustion.
- Fluid dynamics analysis of renewable energy devices

SCIENTIFIC-TECHNICAL SERVICES

- Numerical simulation and analysis of fluid flows.
- Wind tunnel tests
- Water tunnel and water channel tests.

RESEARCH GROUP LEADER: RAMON FERNÁNDEZ FERIA
PAI CODE: TEP146

CONTACT
PHONE: 951 952 380 | FAX: 952132691
E-MAIL: ramon.fernandez@uma.es | WEB: http://www.fluidmal.uma.es
INTRODUCTION

The research group of the Department of Electronics has a wide experience in the area of microelectronics. In the year 1994, this team participated in the creation of the first integrated circuit realized at University of Malaga. In addition, they were awarded the Spin-Off Program for a business idea based on the development of integrated circuits. Currently, the group specializes in the design of sensors and sensor arrays.

RESEARCH TOPICS

- Integrated circuits and electronic systems design.
- Analog and digital signal processing.
- Free space or unguided optical communications.
- Design of sensors and sensor arrays.
- Design of sensors and actuators based on graphene.

SCIENTIFIC-TECHNICAL SERVICES

- Integrated circuits and electronic systems design.
- Analog and digital signal processing.
- Artificial neuronal networks and genetic algorithms.
- Free space or unguided optical communications.
- Development of sensors and sensor arrays.

RESEARCH GROUP LEADER: FRANCISCO JAVIER RIOS GOMEZ
PAI CODE: TEP179

CONTACT
PHONE: 951 952 261 | FAX: 952 133 324
E-MAIL: fjrios@uma.es
MATERIAL BEHAVIOUR AND PROCESSING

INTRODUCTION

This research group belonging to the School of Industrial Engineering at the University of Malaga dedicates its studies to the development of materials and surfaces for various applications, highlighting the ones used in the metallography, metallurgy and construction fields.

RESEARCH TOPICS

- Multiaxial fatigue.
- Determination of closing crack stress in fatigue.
- Random Fatigue.
- Development of structural ceramic and composite materials from waste.
- Production systems of thin layers by reactive thermoprojection.
- Growth of fatigue cracks with loads of variable amplitude.

SCIENTIFIC-TECHNICAL SERVICES

- Production of new materials.
- Obtaining Porous Ceramic Materials.
- Preparation of materials and surfaces.
- Materials Characterization by IR and XRF.
- Testing materials. Mechanical behavior and corrosion.

RESEARCH GROUP LEADER: MARÍA BELEN MORENO MORALES
PAI CODE: TEP183

CONTACT
PHONE: 951 952 304 | FAX: 952 131 371
E-MAIL: bmoreno@uma.es | WEB: http://webdeptos.uma.es/dicmf
INTRODUCTION

This research group has extensive experience in the use of lignocellulosic waste as raw material for the preparation of carbonaceous materials of industrial and/or environmental interest, through thermochemical processes. Likewise, the group has been directing its scientific activity towards the most avant-garde challenges in the field of energy sustainability through the development of catalysts of biomass origin for reactions of interest in the field of biorefinery.

RESEARCH TOPICS

- Thermochemical use (catalyzed and non-catalyzed) of biomass and industrial waste for its revaluation.
- Design and preparation of carbonaceous, metallic and metal oxide based electrodes for electrocatalytic and energy storage processes.
- Development of catalytic systems from lignocellulosic waste for the production of chemical compounds of industrial interest (Biorefinery).
- Adsorption and heterogeneous catalysis processes for the reduction and/or elimination of contaminating compounds from liquid or gaseous effluents.

SCIENTIFIC-TECHNICAL SERVICES

- Preparation and characterization of nanostructured carbon materials, activated carbons and molecular sieves.
- Preparation and characterization of submicron-sized mass and hollow fibers and spheres. Electrospinning and electrospraying techniques.
- Preparation and characterization of inorganic materials for application in the fields of catalysis, environment and energy.
- Elimination of gaseous pollutants and liquids.
- Characterization, study and analysis of the deactivation of catalysts.
- Study of pyrolysis and gasification of agroforestry and industrial waste for energy revaluation.

RESEARCH GROUP LEADER: TOMAS CORDERO ALCANTARA
PAI CODE: TEP184

CONTACT
PHONE: 952 132 038  |  FAX: 952132886
E-MAIL: cordero@uma.es  |  WEB: http://www.grupoterma.uma.es/index.php/es/
INTRODUCTION

The research group Graphic Design and Engineering of the Graphic Expression, Design and Projects Department at University of Malaga, has more than 15 years experience in the field of technological innovation associated with graphical techniques. The main objective of their research is to develop systems to help increase the competitiveness of enterprises.

RESEARCH TOPICS

- Computer Graphics and photorealistic representation.
- Virtual reality: animation and simulation.
- Photography and digital image processing.
- CAD: three-dimensional modeling and prototyping.
- Product design.
- Topography, GPS and photogrammetry.
- Geographic information systems. CAD: three-dimensional modeling and prototyping.
- Recovery of historical and graphic heritage.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice on industrial design.
- Technical advice on surveying and mapping.
- Technical advice on planning and position of resources and services.
- Technical advice on design and product development.
- Design and prototype of models and digital 3D models.

RESEARCH GROUP LEADER: ÓSCAR D. DE-CÓZAR MACÍAS
PAI CODE: TEP189

CONTACT
PHONE: 951 952 277 | FAX: 951 952 514
E-MAIL: odecozar@uma.es
INTRODUCTION

Research group formed initially by engineers doctors industrial and administrators of companies, researchers from the area of Management at the University of Málaga, and other engineers and graduates experts in operations and sustainability, with special emphasis on safety and risk analysis, quality, information and communication technologies and Industrial organization.

RESEARCH TOPICS

- Security-analysis and risk assessment.
- Resilience Engineering and complexity management.
- Labor Risk Prevention.
- Quality.
- Environment.
- Corporate social responsibility and sustainability.
- Production and operations management.
- Process reengineering.
- International cooperation.
- Educational innovation.
- Mobility and transport.
- Innovation and technology transfer.

SCIENTIFIC-TECHNICAL SERVICES

- Audit and diagnostics of Occupational Risks Prevention Systems.
- Integrate Environmental Management, Health and Safety and Quality in the overall management of the company.
- Improving processes and sustainability.
- ICT implementation in enterprises.
- Security integration in methods and production processes, risk assessment and emergency measures.

RESEARCH GROUP LEADER: JUAN CARLOS RUBIO ROMERO
PAI CODE: TEP223

CONTACT
PHONE: 951 952 538   FAX: 951952538
E-MAIL: juro@uma.es   WEB: http://www.grupoinvestigaciontep223.uma.es/
ADDRESS: Economía y Administración de Empresas. Escuela de Ingenierías Industriales. C/Dr. Ortiz Ramos, s/n, 29017 Málaga (Ampliación de teatinos)
INTRODUCTION

The research group Electric Power Systems – Malaga of the Department of Electrical Engineering of the University of Malaga is specialized in the optimization of electric systems aiming to achieve improved energy efficiency. The fundamental research is of interest in the hydroelectric designs, wind-photovoltaic plants design and all types of electric power generation, as well as electrical installation troubleshooting. This research group has an extensive experience in research and teaching and also numerous collaborations with public and private companies.

RESEARCH TOPICS

- Optimization of electric energy systems.
- Analysis of the electric power market. Electricity rates.
- Time-frequency analysis of electric transistors.
- Substation predictive maintenance.
- Small hydroelectric power generators.
- Wind and photovoltaic plants.

SCIENTIFIC-TECHNICAL SERVICES

- Quality of electric energy.
- Localizing faults in electrical installations.
- Protection against electric power outages.
- Analysis of the electric energy market.
- Analysis of electric power networks.
- Electricity rates.

RESEARCH GROUP LEADER: ALICIA TRIVIÑO CABRERA
PAI CODE: TEP225

CONTACT
PHONE: 951 952 355 | FAX: 952 131 091
E-MAIL: atc@uma.es
ADDRESS: Dpto. Ingeniería Eléctrica. Escuela Universitaria Politécnica. Campus de Teatinos, s/n. 29071-Málaga
INTRODUCTION

The research group Electric Engineering Malaga. Renewable Resources of the Department of Electric Engineering from E.T.S.I. Industriales (Higher Technical School of Engineering, Dep. Industry), founded in 1992 with the objective to improve the fundamental properties of engines. The 5 PhD degree members of the group are specialized in the design of electric drives as well as control and regulation of electric machines, e.g., the turbines of wind generators. The group disposes a chamber anechoic used to run tests on candidates for reduction of noise and vibrations of electric engines.

RESEARCH TOPICS

- Quality of the power line.
- Design and construction of power inverters through pulse with modulation (PWM) techniques.
- Energy efficiency.
- Noise and vibration reduction of electric engines.
- Use of electric drives in renewable energy.

SCIENTIFIC-TECHNICAL SERVICES

- Development of active filters for harmonic elimination and harmonic compensation of reactive power.
- Quality optimization of the power supply.
- Optimization of the mechanic behaviour of induction engines:
  - Noise.
  - Vibrations.
- Design of control equipment for engines and their applications.
PORTFOLIO R&D+i

THERMAL MOTORS AND ENERGY EFFICIENCY

INTRODUCTION

This research group located in the Engineering School at the University of Málaga, specializes in the study of the thermal properties of engines. Among its facilities are different test bench, for vehicles and engines, besides a laboratory cogeneration to research simultaneous generation of energy: Stirling Engine, Solar thermal energy and photovoltaic. RESEARCH TOPICS SCIENTIFIC-TECHNICAL

RESEARCH TOPICS

- Car emissions.
- Stirling engines.
- Internal Combustion Engines.
- Energy efficiency.
- Cogeneration.

SCIENTIFIC-TECHNICAL SERVICES

- Optimization of thermal engines.
- Improving energy efficiency in engines.
- Manufacture of energy collector systems.
- Study of cars devices in test bench.
- Energy cogeneration with Stirling engines.

RESEARCH GROUP LEADER: JUAN ANTONIO AUÑON HIDALGO
PAI CODE: TEP249

CONTACT
PHONE: 951 952 394 | FAX: 951 952 394
E-MAIL: jaaunon@uma.es
INTRODUCTION

The Manufacturing Engineering research group, composed of researchers from the Department of Engineering Process at the University of Malaga. Its works and researches are mainly focused on the study and development of optimized manufacturing processes (machining, plastic deformation and additive manufacturing) and measurement methods. Furthermore, it is also responsible for the Metrology Centre at the University of Malaga (CEMUM), the first laboratory of this University accredited by the National Accreditation Agency (ENAC).

RESEARCH TOPICS

- Analysis and improvement of plastic deformation processes.
- Analysis and optimization of machining processes.
- Additive manufacturing.
- Dimensional and industrial metrology.
- Quality manufacturing engineering.
- Industrial heritage.
- Modeling and virtualization of manufacturing processes.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice on manufacturing processes.
- Design and manufacture of prototypes and singular pieces.
- Technical Advice on metrological calibration equipment.
- Technical Advice on laboratory accreditation process.
- Audits of laboratories according to ISO 17025.
- Characterization of surface finishes and geometric deviations.
- Technical advice and optimization of additive manufacturing processes.
- Development of machining projects.
- Advice on measurement techniques.
- Virtualization of machines and assets.

RESEARCH GROUP LEADER: LORENZO SEVILLA HURTADO
PAI CODE: TEP933

CONTACT
PHONE: 951 952 242 | FAX: 951952242
E-MAIL: lsevilla@uma.es | WEB: www.uma.es/tep933
ADDRESS: Escuela de Ingenierías Industriales. Ampliación Campus de Teatinos 29071 - Málaga.
INTRODUCTION

The Machine Perception & Intelligent Robotics group (MAPIR) belongs to the Department of System Engineering and Automatics and to Instituto de Investigación Biomédica de Málaga (IBIMA). The group has more than twenty years’ experience in the development of solutions for intelligent robotic systems (localization, map building, autonomous navigation, human-robot interaction, etc.) and sensory systems based on artificial vision and olfaction.

RESEARCH TOPICS

- Autonomous robots.
- Computer vision.
- Electronic noses.

SCIENTIFIC-TECHNICAL SERVICES

- Development of service and assistance robots.
- Data analysis and decision making through techniques from Artificial Intelligence and Machine Learning.
- Guided vehicles like robots, cars, drones, etc.
- Gas and odor detection and recognition.
- 3D modelling of objects, buildings and infrastructures.
- Monitoring and performance in smart environments.

RESEARCH GROUP LEADER: JAVIER GONZALEZ JIMENEZ
PAI CODE: TEP960

CONTACT
PHONE: 952 132 724 | FAX: 952 132 724
E-MAIL: javiergonzalez@uma.es | WEB: http://mapir.isa.uma.es/
ADDRESS: E.T.S.I. Informática. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The Thermal Engines UMA research group is composed of researchers from the Department of Mechanical, Thermal and Fluid Engineering at the University of Malaga. This group is mainly focused on the study of emissions in thermal engines and optimization of development of injection systems in them. This researches are useful to improve the efficiency of combustion engines and reduce the pollution produced by them.

RESEARCH TOPICS

- Thermal Engines.
- Direct injection systems in thermal engines.
- Gaseous and particulate emissions of thermal engines.
- Energy analysis of complex systems.
- Analysis of Computational Flows in Thermal Motors.

SCIENTIFIC-TECHNICAL SERVICES

- Characterization of the soot of an ignition engine.
- Modeling injectors.
- Modeling of diesel engines.
- Simulation of flows within engines.
- Energy recovery systems in the exhaust gases.
- Modeling of exchangers.
- Modeling of heat transmission in devices.

RESEARCH GROUP LEADER: FRANCISCO JAVIER MARTOS RAMOS
PAI CODE: TEP962

CONTACT
PHONE: 951 952 778 | FAX: 951 952 605
E-MAIL: fjmartos@uma.es | WEB: http://immf.uma.es/
ADDRESS: E.T.S.I Industriales. Campus de Teatinos s/n 29071 - Málaga
INTRODUCTION

OASYS is a multidisciplinary research group that currently has eight researchers who develop their work in the areas of Applied Mathematics, Statistics and Operations Research, Optimization, and Power Systems Operation and Planning. More specifically, the group is dedicated to the design, implementation and validation of new mathematical methods for making decisions with uncertainty using advanced mathematical techniques of optimization and automatic learning, where the energy sector is its main field of application to date.

RESEARCH TOPICS

- Optimization and prediction.
- Automatic learning techniques for decision making under uncertainty.
- Exploitation and planning of energy systems with a high renewable component.
- New methods for the operation of smart energy networks.

SCIENTIFIC-TECHNICAL SERVICES

- Creation and implementation of models for the analysis, classification and interpretation of large amounts of data.
- Design and development of models for the control and prediction of renewable energy systems.
- Development of business strategies in energy markets. Advice on investments in production assets, consumption, storage, transportation and distribution.
- Reports on the techno-economic impact of the integration of renewable energies (wind, solar, etc.).
INTRODUCTION

Research group that is part of the UNESCO Areas "Industrial Technology Production" and "Metrology" and in the DEVA Areas "Production and Construction Technologies" in the Sectorial Development Area of Machinery and Production Processes. This research group has transversal character that covers fields such as mechanical analysis of Engineering Materials, Dimensional Metrology, both macro and microgeometric, maintaining lines of research related to Manufacturing Process Engineering. Among its lines of research, the Additive Manufacturing (AM), which is an emerging line of research at the University of Malaga (UMA) and which has focused mainly on the Group's activity, has a special relevance, with AM equipment by means of FDM (Fused Deposition Modeling) technology both in processing of polymeric materials (ABS, Nylon, PLA ...) and in composite materials of polymeric matrix and continuous fiberglass or Carbon reinforcement, as well as in metallic materials through Atomic Diffusion processes. Responsible for the Metrology Center of the University of Málaga (CEMUM), the first laboratory with ENAC accreditation for the UMA.

RESEARCH TOPICS

- Additive Manufacturing.
- Metrology: Characterization of Surfaces.
- Plastic, Machanical and Corrosion Materials Behavior.
- Educational Innovation in Engineering.

SCIENTIFIC-TECHNICAL SERVICES

- Manufacturing of Prototypes and singular parts.
- Technical Advice and Optimizationon in Additive Manufacturing Processes (AM).
- Characterization of Materials for AM.
- Technical advice on laboratory accreditation.
- Technical advice on calibration of metrological equipment.
- Technical advice on measurement methods.
- Characterization of surface finishes.
- Laboratory audits according to ISO 17025.

RESEARCH GROUP LEADER: FRANCISCO DE SALES MARTÍN FERNÁNDEZ
PAI CODE: TEP969

CONTACT
PHONE: 951 952 309
E-MAIL: fdmartin@uma.es
ADDRESS: Escuela de Ingenierías Industriales. C/. Dr. Ortiz Ramos s/n. Campus de Teatinos, s/n. 29071-Málaga
FLOW CONTROL AND THEIR APPLICATIONS

INTRODUCTION

The flow control and their applications research group have extensive experience in transfer contracts with companies (Airzone, AZVI, Hitachi Energy, C-Green, Quandum Aerospace, Defensya Engineering International), and in European contracts with aeronautical or aerospace companies (Airbus, European Space Agency). Several members are authors of international-review patents and have a high capacity to model, and design equipment and mechanisms, as well as control flows of interest in industry or bioengineering, including their heat transfer. They also make use of supercomputing equipment with professional licenses, and advanced experimental measurement and testing equipment applied to all types of aerodynamic and hydrodynamic flows.

RESEARCH TOPICS

- Theoretical stability methods based on frequency response and optimal flow response.
- Machine learning applied to the control of wakes and aero-hydrodynamic forces.
- Experimental measurement and testing techniques applied to turbulent flows and their control.
- Numerical simulations of turbulent, two-phase, atmospheric, rheological flows or those involved in aerospace propulsion, bioengineering and hydraulic turbomachines.

SCIENTIFIC-TECHNICAL SERVICES

- Technical consulting in finding solutions for industrial fluid dynamics.
- Ad hoc characterization of flows and their control in industrial processes, with or without heat transfer.
- Resolution of mechanical problems with fluid-structure interaction.

RESEARCH GROUP LEADER: CARLOS DEL PINO PEÑAS
PAI CODE: TEP997

CONTACT
PHONE: 951 953 460
E-MAIL: cpino@uma.es
ADDRESS: Escuela de Ingenierías Industriales, Universidad de Málaga, Arquitecto Francisco Peñalosa, 6, 29071, Málaga
INFORMATION AND COMMUNICATION TECHNOLOGIES

- COMMUNICATION AND CULTURE LAB: COMANDALUCÍA
- COMMUNICATIONS ENGINEERING
- INDUSTRIAL INFORMATICS AND MICROELECTRONICS (MINFO)
- PARALLEL ARCHITECTURES AND ALGORITHMS
- APPLIED MATHEMATICS IN COMPUTING
- COMPUTER TECHNIQUES IN ENGINEERING
- ENGINEERING OF INTEGRATED SYSTEMS
- DIGITAL IMAGE PROCESSING IN RADIOLOGY
- RESEARCH AND APPLICATION OF ARTIFICIAL INTELLIGENCE (IA)2
- SOFTWARE ENGINEERING
- COOPERATIVE INFORMATION SYSTEMS
- COMPUTATIONAL INTELLIGENCE AND IMAGE ANALYSIS
- DESIGN OF ADVANCED INTERFACES (DIANA)
- ELECTRONICS FOR INSTRUMENTATION AND SYSTEMS
- ATIC RESEARCH APPLICATION OF INFORMATION AND COMMUNICATION TECHNOLOGIES
- LANGUAGE TECHNOLOGIES AND INTERCULTURAL COMMUNICATION (TECNOLENGUA)
- NEUROTECHNOLOGY
- COMPUTER INTELLIGENCE IN BIOMEDICINE
- BIOMEDICAL SIGNAL PROCESSING, COMPUTATIONAL INTELLIGENCE AND COMMUNICATIONS SECURITY
COMMUNICATION AND CULTURE LAB: COMANDALUCÍA

INTRODUCTION

The Communication and Culture Lab COMandalucía is an interdisciplinary research group at the University of Málaga born in 2009, with the commitment to work in promoting a critical research dedicated to generate more horizontal and inclusive communication models. The group aims to be an observatory of public and associates local media to contribute their knowledge and better functioning of them, focusing on citizen participation and implementation of local information. During this time, their works are backed by projects supported by the regional and national institutions.

RESEARCH TOPICS

- Indicator of social value of the Media.
- Mapping of public and private broadcasters.
- Study of community radio and participatory communication.
- Communication, Development and Cooperation.
- Democratization of communication.
- Public policies and communication.
- Decoloniality and epistemologies.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice on participatory and socially responsible media configuration.
- Support for the construction of indicators of social profitability of the media.
- Designer service for creating new communication projects.

RESEARCH GROUP LEADER: MANUEL MIGUEL CHAPARRO ESCUDERO
PAI CODE: TIC015

CONTACT
PHONE: 952 132 915
E-MAIL: mch@uma.es | WEB: https://com-andalucia.org/
ADDRESS: Facultad de Ciencias de la Comunicación. Campus de Teatinos, s/n. 29071- Málaga
INTRODUCTION

The group of Communications Engineering at the University of Malaga, has a large team of highly qualified researchers which have extensive experience in telecommunications networks. One of the main goals of this group has always been to contribute to technological development, which is the reason for having an extensive curriculum in collaboration with enterprises active in various areas of communications technologies.

RESEARCH TOPICS

- Mobile and broadband communications.
- Radiofrequency, microwave and millimeter-wave technologies.
- Digital image processing.
- Digital signal transmission.
- Satellite communications.
- Audio and video Systems. Acoustics.
- Automation of test equipment for terminals and telecommunications networks.
- Optical communications systems.
- Electromagnetic compatibility engineering.

SCIENTIFIC-TECHNICAL SERVICES

- Optimization, management and automation of mobile communications networks.
- Development of software for mobile communications systems.
- GPS and location-based services.
- Development of radiofrequency, microwave and millimeter-wave technologies.
- Digital transmission systems for mobile communications.
- Analysis and design of photonic devices and systems.
- Digital processing of audiovisual signals.
- Study of the biological effects of non-ionizing electromagnetic radiation.

RESEARCH GROUP LEADER: CARLOS CAMACHO PEÑALOSA
PAI CODE: TIC102

CONTACT
PHONE: 952 131 340 | FAX: 952 132 027
E-MAIL: ccp@ic.uma.es | WEB: http://www.ic.uma.es
INTRODUCTION

The MINFO (Computer Microelectronics) research group, which is part of Informatics Technical School, is mainly committed to the research and development of electronic and image processing systems for use in industrial, social and scientific environments.

RESEARCH TOPICS

- Laser-based electronic instruments.
- Design of circuits, both analogical and digital.
- Processing of images in industrial surroundings.

SCIENTIFIC-TECHNICAL SERVICES

- Applications for improving the efficiency of production processes.
- Acquisition and processing of images for the purposes of their application to specific inspection and to the improvement of the quality in industrial processes.
- Electronic design and development of prototype cards for the purposes of the maintenance of bank terminals.

RESEARCH GROUP LEADER: CARLOS GONZÁLEZ SPÍNOLA
PAI CODE: TIC108

CONTACT
PHONE: 952 131 388 | FAX: 952133324
E-MAIL: cspinola@uma.es
INTRODUCTION

Research group whose activity is summed up in five scientific fields, parallel computing in high-performance architectures, image and video processing, application specific architectures and computer arithmetic, numerical simulation, and bioinformatics. This group has modern equipment and facilities in the Biocomputing Center at the University of Malaga, sited in the Andalusian Technology Park (PTA).

RESEARCH TOPICS

- Parallel computing in high-performance architectures.
- Application specific architectures and computer arithmetic.
- Image and video processing.
- Audiovisual information systems.
- Numerical simulation of physical systems.
- Bioinformatics.

SCIENTIFIC-TECHNICAL SERVICES

- Development of specific hardware for industrial applications.
- Quality analysis of industrial products based on visual inspection.
- Development of audiovisual information systems.
- Computational optimization of the numerical simulation of industrial processes.
- Advanced optimization methods for applications in multiprocessors and clusters (massive processing and data storage).

RESEARCH GROUP LEADER: EMILIO LÓPEZ ZAPATA
PAI CODE: TIC113

CONTACT
PHONE: 952 131 404 | FAX: 952 132 790
E-MAIL: zapata@uma.es | WEB: http://www.ac.uma.es/
INTRODUCTION

The research group Applied Mathematics in Computing, founded in 1995, of the Department of Applied Mathematics of the E.T.S.I. Informatica (Higher Technical School of Engineering, Dep. Informatics) is specialized in the study of formal methods for the construction of deductive reasoning systems (artificial intelligence). The scientific team has an expertise in developing expert systems capable of deducting possible solutions when presented with practical and/or real cases. The software is quite resourceful and offers a range of applications in medicine or jurisprudence, not only as a general means of professional support, but also by providing a higher impartiality between possible courses of action. Latest research has been centered on the development of semantics websites. An individual visiting such a site will be guided by an intelligent set of questions in order to present the information, the person was looking for. Applications for this research could be used in the analysis of complex databases, deducing distinct entries, where to find objects, preferred choices, etc.

RESEARCH TOPICS

- Automated theorem proving in non-classical logics.
- Formal computational methods. Applied to databases.
- Numerical methods in mathematical programming.
- Application of line theories to computer networks.
- Category theories and abstract algebras.

SCIENTIFIC-TECHNICAL SERVICES

- Technical advice for planning and calculations for the design of communication towers.
- Advisor for the design of intelligent software.

RESEARCH GROUP LEADER: AGUSTIN VALVERDE RAMOS
PAI CODE: TIC115

CONTACT
PHONE: 952 132 878 | FAX: 952 132 766
E-MAIL: a_valverde@ctima.uma.es | WEB: http://www.gimac.uma.es
INTRODUCTION

The research group Computer Techniques in Engineering of the Department of Computer Sciences and Languages of the University of Malaga is specialized in the study of fluid dynamics of various compounds like optical or textile fibres. The revolution in technology and modern communication thinks of the optical fibre as an exceptional compound. It is one of the most important products on the market. Thanks to its versatility it can be used in a variety of fields, like communications, engineering, navigation and even medicine. Therefore, this research group is able to collaborate with many companies from different areas, e.g.: companies specialized in the design of new fibre cloth products, filter membranes, mass and heat transfer systems, etc.

RESEARCH TOPICS

- Fluid dynamics and processing of textile, optical and composite fibres (glass and polymer).
- Combustion and heat and mass transfer.
- Polymerization and degradation of polymers.

SCIENTIFIC-TECHNICAL SERVICES

- Advisor and/or collaborator in related industrial problems:
  - Heat and mass transfer.
  - Combustion.
  - Fluids.
  - Polymers.
- Modelling of membranes for filtration, purification and chemical reactions.
ENGINEERING OF INTEGRATED SYSTEMS

INTRODUCTION

The ISIS Group was founded in 1990 in the Department of Electronics Technology, University of Malaga. Many of its members have extensive experience in cognitive systems and artificial intelligence. Currently such knowledge has been applied to the field of robotics, computer vision and Ambient Intelligence.

RESEARCH TOPICS

- Broadband Communications.
- Multimedia Systems.
- Design of microelectronic systems: VLSI-ASICs.
- Computer Vision.
- Ambient Intelligence.
- Technologies for Ambient Assisted Living (AAL).
- Augmented Reality Systems.

SCIENTIFIC-TECHNICAL SERVICES

- Technology and architecture of intelligent sensors that can be integrated with wireless communications technologies.
- Learning by imitation in robotics.
- Human-Machine vision interfaces.
- Autonomous mobile systems and control architectures.
- Research work in the field of mobile telephony.
- Projects of Advanced Tele-Home Care. Telemedicine.
- Development of Augmented Reality System for using in exhibitions, learning, etc.
- Soft Computing techniques applied to the health sector. Study of detection rates and epidemic modeling of infectious disease.

RESEARCH GROUP LEADER: FRANCISCO GARCIA LAGOS
PAI CODE: TIC125

CONTACT
PHONE: 952 132 874
E-MAIL: lagos@dte.uma.es | WEB: http://www.grupoisis.uma.es
INTRODUCTION

The research group Digital image processing in radiology is specialized in computerization of diagnostic images such as mammograms or resonance images of the thorax and brain. The research lines of this team have an innovative and novel component. Its 7 members belong to the fields of health care sciences and new technologies; they have more than 10 years of experience in this medical area. At present, they are focused on the design and development of software capable of measuring levels of cerebral atrophy that can be observed in computerized axial tomography (CAT scan) and magnetic resonance imaging (MRI).

RESEARCH TOPICS

- Digital image acquisition systems in radiology.
- Computed-aided diagnosis.
- PACS, RIS and teleradiology.
- Multimedia and tele-education.
- Quality control and management.
- Digital image processing.

SCIENTIFIC-TECHNICAL SERVICES

- Consultancy on new methods of radiological diagnosis.
- PACS, HIS and RIS consulting.
- Digital radiological imaging laboratory.
- Development of computer-aided diagnosis system.
- Image processing techniques for chemical analysis.
- Organization of radiology congresses.

RESEARCH GROUP LEADER: ENRIQUE NAVA BARO
PAI CODE: TIC128

CONTACT
PHONE: 952 131 188  |  FAX: 952 131 630
E-MAIL: en@uma.es  |  WEB: http://radiologia.uma.es
INTRODUCTION

Group composed of teachers and researchers from the Computer Science School at the University of Málaga. The group has more than 25 years of experience in European, National and Regional Research projects and contracts with companies for Technology Transfer, in topics related to Artificial Intelligence, Web Technologies and Software Development

RESEARCH TOPICS

- Artificial Intelligence in Education.
- User modeling and Personalization.
- Computational Learning. Data Mining.
- Heuristic Search.
- Multiagent Systems.
- Adaptive Hypermedia and Adaptive Web-based Systems.

SCIENTIFIC-TECHNICAL SERVICES

- Artificial Intelligence in Civil Engineering.
- Intelligent Tutoring Systems and E-learning.
- Educational Games.
- Knowledge discovery in large database systems.
- Knowledge retrieval and Recommender systems.
- Multi-platform applications: DT, mobile devices, web.
- Personalization of web-based applications.

RESEARCH GROUP LEADER: FRANCISCO ANDRES TRIGUERO RUIZ
PAI CODE: TIC135

CONTACT
PHONE: 952 131 438 | FAX: 952131397
E-MAIL: triguero@lcc.uma.es | WEB: http://iaia.lcc.uma.es
INTRODUCTION

The GISUM (Software Engineering Group of the University of Malaga) is composed of a large team of professors and researchers of the Department of Languages and Computer Sciences of the UMA. The activities of the group are orientated towards both basic and applied research, along with a significant dedication to technological transference. The research they carry out is supported by important financing, which is obtained via projects with both public and private subsidising, and a wide participation in European projects. The considerable growth of the group has led to an organization based on subgroups, whose information may be accessed at: https://itis.uma.es/en/research-groups/

RESEARCH TOPICS

- Automated Software Engineering.
- Data Science and Engineering and Artificial Intelligence.
- Cibersecurity.
- Smart Networks and Services.
- Applications of software technologies and software engineering.

SCIENTIFIC-TECHNICAL SERVICES

- Development of specific software for computer and industrial contexts.
- Development of applications based on mobile communications.
- Design and development of information security systems.
- Design and development of solutions for smart cities.
- (Big) Data analytics. Data integration. Open Data. Web of Data applications.

RESEARCH GROUP LEADER: ERNESTO PIMENTEL SÁNCHEZ
PAI CODE: TIC136

CONTACT
PHONE: 952 131 396 | FAX: 952131397
E-MAIL: ernesto@lcc.uma.es | WEB: http://www.gisum.uma.es
INTRODUCTION

The SICUMA group (Cooperative Information Systems, University of Malaga) shares its activities the Informatics and the Tourism Faculties, both at the Teatinos Campus of the University of Malaga. Its work is focused on the research and development of software systems for the support of technology companies, specially those centered on Tourism and Information Technology.

RESEARCH TOPICS

- Technologies (ICT) applied to tourism, archeology and heritage.
- Bioinformatics.
- Recommender Systems.
- Automated Reasoning.
- Databases.
- Formal methods for software engineering.
- Cooperative techniques of development of information systems.
- User interface adapted to the collaboration.

SCIENTIFIC-TECHNICAL SERVICES

- Analysis, design and deployment of information systems and databases using development methodologies and best practice in Software Engineering.
- Application of collaborative techniques for information systems development.
- HPC many-core CPU.
- Technology consulting and systems planning.
- Development of technology solutions for companies and institutions in the tourism sector.

RESEARCH GROUP LEADER: ANTONIO GUEVARA PLAZA
PAI CODE: TIC160

CONTACT
PHONE: 952 133 254 | FAX: 952 132 092
E-MAIL: guevara@uma.es | WEB: http://www.sicuma.uma.es/
INTRODUCTION

The core activity of this group is focused on the development of models for neurocomputation, deep learning, computational learning, computer vision and image analysis. The product of their research has been applied to various sectors such as video surveillance, e-learning and biomedicine.

RESEARCH TOPICS

- Neurocomputation: deep learning, supervised and non supervised networks.
- Analysis of digital images. Medical image processing.
- Computational Learning.
- Logistics and transport systems.
- Systems to support decisions.
- Intelligent video surveillance.
- Artificial intelligence applied to cardiology, finance, agriculture, and the aerospace industry in satellites.
- Natural language processing and large language models (LLM).

SCIENTIFIC-TECHNICAL SERVICES

- Artificial intelligence applied to medicine.
- Data Acquisition System via GPS.
- Analysis of digital images to detect abnormalities.
- Design and optimization of logistics and transport networks.
- Generation of perspectives of three-dimensional scenes.
- Design of prototypes of applied artificial intelligence systems.
- Advice on business strategies in the field of artificial intelligence.

RESEARCH GROUP LEADER: EZEQUIEL LOPEZ RUBIO
PAI CODE: TIC163

CONTACT
PHONE: 952 132 726 | FAX: 952131397
E-MAIL: ezeqlr@lcc.uma.es | WEB: https://www.uma.es/inteligencia-computacional/
INTRODUCTION

Multidisciplinary group working since 1999 in R&D of novel interfaces applied to information and communication technologies. DIANA is structured into four working areas: "Networks and Radio Technology" area is focused on the analysis, modelling, control and management of new generation communication networks. A line of evaluation and development of software architectures and development of mobile applications eHealth is also included. "Man-Machine Interaction" area is engaged in design, development and evaluation of new interactive systems, specially those related to Virtual and Augmented Reality, Brain-Computer Interfaces and new paradigms of interaction. This line includes design and development of projects related to narration and interaction. "Design of Electronic Systems" area is focused mainly on design and development of hardware/software of monitorization and control systems. "Educational innovation" line is focused in ICT applied to teaching, engineering teaching and transversal competences.

RESEARCH TOPICS

- Networks and Radio Technology.
- Human-Machine Interfaces and Virtual Reality.
- Electronic Systems Design.
- Educational Innovation.

SCIENTIFIC-TECHNICAL SERVICES

- 3D interaction in virtual reality,
- Brain Computer Interfaces.
- Body area networks and fall detection systems.
- Electrónico and interactive art.
- Technology and new teaching methodologies for higher education in engineering.
- Applications for unmanned aerial vehicles.
- Wireless communication networks.
- Internet of things, IoT.
- 3D Audio and Hearing Virtual Reality.

RESEARCH GROUP LEADER: ARCADIO REYES LECUONA
PAI CODE: TIC171

CONTACT
PHONE: 952 132 755 | FAX: 952131447
E-MAIL: areyes@uma.es | WEB: http://www.diana.uma.es
INTRODUCTION

This research group is specialized in the study and the design of tactile sensors. These technical tools can be used in a variety of areas like telepresence, minimal invasive surgery, industrial robotics, rehabilitation, care and assistance for senior citizens and patients, telemedicine and even domotic sensors.

RESEARCH TOPICS

- Electronic systems with analog and digital part on microcontrollers, PSoC and FPGA.
- Touch sensors and applications.
- Instrumented devices with application to health.
- Haptic (especially assistance oriented).
- Home automation devices.

SCIENTIFIC-TECHNICAL SERVICES

- Electronic design:
  - Analog.
  - Digital.
- Sensoring of pressure distribution.
- Implementation of sensors for distinct applications:
  - Telemedicine.
  - Robotics.
  - Rehabilitation.
  - Domotics.
  - Assistance for senior citizens.
- Advisor in research related topics.

RESEARCH GROUP LEADER: FERNANDO VIDAL VERDU
PAI CODE: TIC182

CONTACT
PHONE: 952 133 325 | FAX: 952 133 324
E-MAIL: fvidal@uma.es | WEB: https://www.uma.es/departamento-de-electronica/info/136417/paidi-tic-182-electronica-para-instrumentacion-y-sistemas/
APPLICATION OF INFORMATION AND COMMUNICATION TECHNOLOGIES

INTRODUCTION

The ATIC Research Group of the University of Malaga is a multidisciplinary group that since 2007 has been carrying out intense research, dissemination and transfer of technology and research results. This activity is materialized in numerous publications in prestigious magazines and contributions in international conferences, as well as in research projects, contracts, patents, etc. carried out within the research group. The ATIC group researchers have solid knowledge and experience in signal, image and audio processing, digital communications, signal modeling and machine learning to embroider all types of projects and contracts in their field. In addition, the ATIC research group maintains relationships with other internationally prestigious research groups in different fields of signal processing and is responsible for organizing a good number of events for the dissemination of research, including important international conferences.

RESEARCH TOPICS

- Processing of musical information. MIR.
- Processing of digital audiovisual signals.
- Music signal processing: Music content description.
- Automatic music composition and content creation.
- EEG signal analysis. Related to auditory and musical activity.
- NIRS signal analysis. Related to auditory and musical activity.
- Serious games and E-learning.

SCIENTIFIC-TECHNICAL SERVICES

- Voice signal processing: characterization, detection, classification.
- Polyphonic music transcription. Musical content indexed.
- Automatic melody composition for videogames.
- Signal processing for ad-hoc applications.
- Recording of EEG and NIRS signals during specific activities.
- EEG and NIRS signal processing.
INTRODUCTION

The University of Málaga's Research Group Language Technologies and Intercultural Communication (Tecnolengua) is focused on the automatic analysis of language, discourse, and cognitive processes, with a special interest in sentiment analysis and opinion mining. Although we mainly knowledge-based methodologies, we follow a mixed approach, as we complement such methods with machine-learning techniques from annotated corpora. In previous projects we have worked on the development of software and resources for the creation and management of lexical and terminological databases.

RESEARCH TOPICS

- Computational linguistics. Natural language processing. Corpus linguistics.
- Sentiment analysis and opinion mining.
- Automated speech analysis.

SCIENTIFIC-TECHNICAL SERVICES

- Corpus annotation for the training and learning of predictive models.
- Text analytics and sentiment analysis.
- Automated language analysis.
- Extraction, analysis, and visualization of touristic intelligence from text.

RESEARCH GROUP LEADER: ANTONIO JESÚS MORENO ORTIZ
PAI CODE: TIC219

CONTACT
PHONE: 951 952 289
E-MAIL: amo@uma.es | WEB: http://tecnolenguia.uma.es
ADDRESS: Office 2.019L E.T.S.I. Industriales. Campus de Teatinos, s/n. 29071 - Málaga; Dpto. Filología Inglesa, Francesa y Alemana
INTRODUCTION

The research group Neurotechnology (Neurotec) is focused on Expert Systems and Knowledge Management and Knowledge Extractions based on techniques of Computational Intelligence and Medical Image Analysis, especially Neuroimaging. These systems are involved in the developments realized in their research topics.

RESEARCH TOPICS

- Knowledge management in Neuroscience using Ontologies and Web 3.0.
- Algorithms and Neuroimaging studies.
- Neuropsychology, dementia and psychiatric disorders.
- Cognitive and motor rehabilitation.
- Big Data and population modeling.
- Neuronavigation.
- Neurodevices. Assistive technologies.
- Applied neuroscience: Neurodidactics, neuopedagogy, neuromarketing, etc.

SCIENTIFIC-TECHNICAL SERVICES

- Computational Intelligence and Knowledge extraction applied to evidence-based medicine (EBM).
- Algorithms, cloud platforms and brain medical image processing.
- Neuroimaging analysis for structural quantification.
- Design and manufacture of neuronavigation devices.
- Signal processing from BCI devices (Brain-Computer Interface).
- Intelligence systems development to support clinical decision-making process.
- Modelling population of pathologies.
- Big data and mining data for extraction of markers in pathologies.
- Design and implementation of gestural interfaces and voice commands, using natural language processing.

RESEARCH GROUP LEADER: LOURDES DE LA PEÑA FERNANDEZ
PAI CODE: TIC225

CONTACT
PHONE: 952 137 424 | FAX: 952131630
E-MAIL: lpf@uma.es
ADDRESS: Facultad de Medicina. Campus Teatinos, s/n. 29071- Málaga
INTRODUCTION

This research group is mainly dedicated to the design and application of Computational Intelligence techniques and algorithms to solve problems in different scopes, particularly in the field of biomedicine and bioinformatics. The group has a consolidated track record in the execution of research projects in collaboration with both Spanish and foreign research groups belonging to the areas of molecular biology, oncology, pathology, surgery and physics. The three main lines of research define the scientific trajectory of the group: i) Design and application of artificial neural network algorithms and to engineering and health sciences; ii) Hardware implementation of learning and application algorithms in industrial environments; and iii) data mining in bioinformatics and implementation in oncology field. The main milestone of the group in this section is the design and implementation of an oncology information system (Galén) in the UGC Oncología Intercentros of the main hospitals in the province of Malaga. The objective of this information system is, on the one hand, the management and coordination of all the processes involved in the operation of a medical oncology unit, and on the other hand, the production and analysis of real world data in oncology using techniques and algorithms from the field of artificial intelligence and natural language processing.

RESEARCH TOPICS

- Deep learning.
- Natural language processing.
- Medical informatics.
- Data and text mining.
- Bioinformatics.

SCIENTIFIC-TECHNICAL SERVICES

- Design of predictive models in health.
- Development of software in clinical field.
- Clinical data mining.
- Bioinformatics analysis.

RESEARCH GROUP LEADER: JOSE MANUEL JEREZ ARAGONES
PAI CODE: TIC226

CONTACT
PHONE: 952 132 895
E-MAIL: jmjerez@uma.es | WEB: http://www.icb.uma.es/icb
ADDRESS: ETSI Informática de la Universidad de Málaga; Bulevar Louis Pasteur, 35, 29071 Málaga
INTRODUCTION

Biomedical Signal Processing, Computational Intelligence and Communications Security (BioSiP) research group focus the activities in the development of new techniques and learning algorithms with biomedical applications. This includes medical image analysis and processing, computer aided diagnosis tools. Moreover, they have different research lines in cryptography and cybersecurity in collaboration with other national and international research groups. Currently, the group coordinates the computational neurosciences and education at the University of Málaga, in collaboration with the Leeduca Group.

RESEARCH TOPICS

- Medical image processing and analysis.
- Computer aided diagnosis systems.
- Statistical signal processing with biomedical applications.
- Cryptography and communications security.

SCIENTIFIC-TECHNICAL SERVICES

- Biomedical signal processing. Modelling and classification for CAD systems.
- Intelligent systems for applications in bioinformatics and biomedicine.
- Medical image processing (MRI, SPECT, PET, fMRI, etc).

RESEARCH GROUP LEADER: ANDRES ORTIZ GARCÍA
PAI CODE: TIC251

CONTACT
PHONE: 952 133 353 | FAX: 952132027
E-MAIL: aortiz@ic.uma.es | WEB: http://www.biosip.uma.es/
ADDRESS: Departamento de Ingeniería de Comunicaciones. E.T.S de Ingeniería de Telecomunicación. Ampliación Campus Teatinos s/n. 29071- Málaga