



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

Audiovisual Communication, Documentation and Art History (DCADHA)

<https://dcadha.webs.upv.es/@dcadhaupv>

Director: Nuria Ramón Marqués

Contact: nramon@har.upv.es

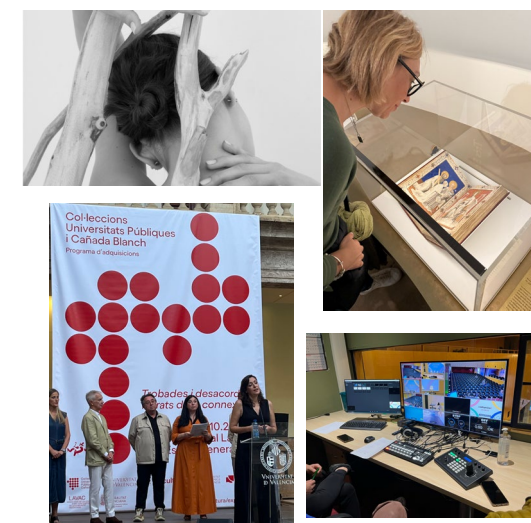


RESEARCH LINES/CAPABILITIES/FACILITIES

- **ArtiCom Research Group** (<https://articom.webs.upv.es/>)
 - Visual Culture: Aesthetics and Politics
 - Audiovisual Media and Mass Communication
 - Communication and Artistic Expression in Western Culture
 - Audiovisual Aesthetics
- **iMetrics Lab Research Group** (<https://imetricslab.webs.upv.es/>)
 - Science studies
 - Digital analytics and SEO/SEM
 - Digital behavior of social actors

MASTER-PHD PROGRAMS

- PhD in Communication and Cultural Industries





Director: Ignacio Bosch (igbosroi@dcom.upv.es)

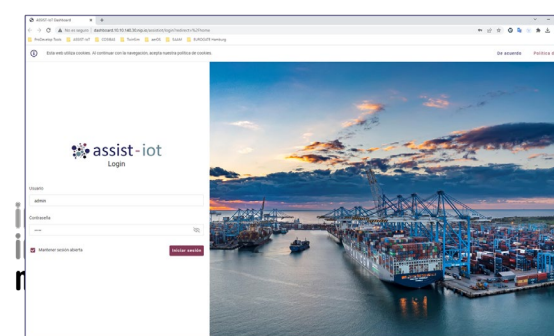
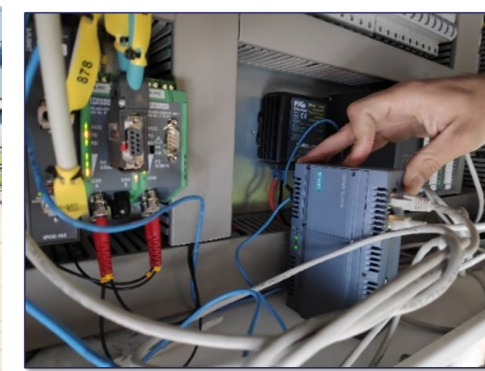


RESEARCH LINES/CAPABILITIES/FACILITIES

- **IoT and Edge/Cloud Continuum Group**
(Carlos E. Palau / cpalau@dcom.upv.es / <https://bit.ly/45pDfOz>)
IoT platforms, Edge/Cloud, 5G/6G, AI in transport/logistics,
Digital Twins, Cybersecurity, Data Spaces
- **IIM Group (Immersive and Interactive Media)**
(Fernando Boronat / fboronat@dcom.upv.es / iim.webs.upv.es /
[@ImInMediaGroup](https://twitter.com/ImInMediaGroup))
Media synchronization, XR, protocols (WebRTC, QUIC, RTP),
QoS/QoE, gesture interaction, multisensory media
- **PELICAN Group**
(Jorge Martínez Bauset / jmartinez@upv.es)
Business models in disruptive tech, resource management in
networks, digital signal processing for comms and ultrasound

MASTER-PHD PROGRAMS

- Telecommunication PhD program



Director (IDEA): M^a Pilar [Santamarina Siurana \(mpsantam@eaf.upv.es\)](mailto:mpsantam@eaf.upv.es); **Director** (GIIA); Hugo Merle Farinos (humerfa@upvnet.upv.es)



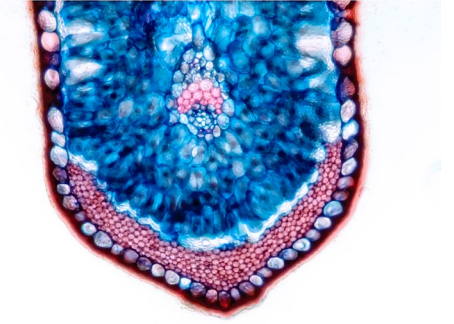
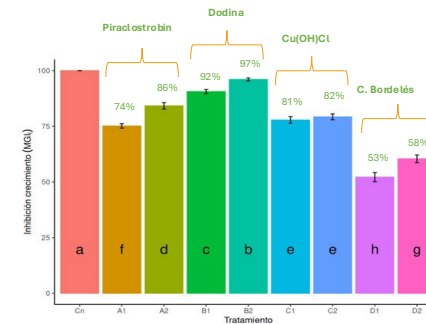
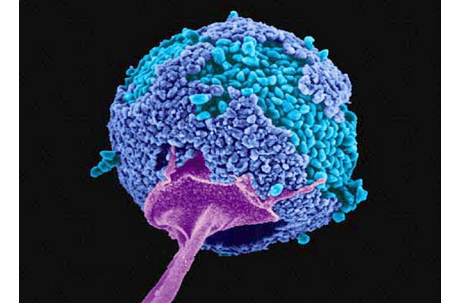
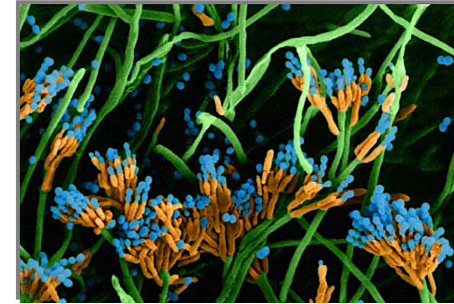
RESEARCH LINES/CAPABILITIES/FACILITIES

Research Structure Department of Agroforestry Ecosystems (IDEA):

- Antifungal potential of botanical compounds
- Natural biofilms in the preservation of fruits and vegetables
- Fungal ecophysiology
- Applied plant anatomy
- Quality control using optical microscopy of commercial saffron.
- Symbiosis, diversity, and evolution in lichens and plants: biotechnology and innovation

Applied Research in Sustainable Agronomy (GIIA):

- Applied Research in Sustainable Agronomy
- Studies on Citrus Creasing
- Plant Protection Products to Control *Alternaria alternata* in Citrus



Director: Melià Martí, Elena (emeli@m@esp.upv.es)

DESC topics

- Big Data in the agri-food sector
- Prediction models with online data applied to the agri-food sector.
- Obtaining economic indicators with webscraping
- Green finance, ESG scores and portfolio optimization
- Agri-food trade in the Euro-Mediterranean region. Modelling of international trade under alternative policy scenarios. Trade agreements and agricultural policies.
- Innovation in the agri-food sector. Determinants of innovation in the agri-food industry and the agricultural sector.
- The value chain in agri-food systems.
- Agrarian policies. The impact of European rural development policies.
- Economic valuation of the environment. Multi-criteria evaluation of environmental public goods in agricultural activity.
Analysis of the sustainability of agricultural systems. Structural adjustment processes of agricultural holdings.
- Multi-criteria analysis applied to investment decision-making in the renewable energy sector. Financing of renewable energy projects.
- Portfolio selection, especially for socially responsible funds.
- Economics of the agri-food sector.
- Agri-food logistics. Analysis of the efficiency and quality of logistics services for agri-food products.
- Agricultural policy and international trade. Agri-food industries.
- Analysis of efficiency in agri-food production.
- International agricultural trade. Agri-food logistics. Analysis of the efficiency and quality of logistics services for exports and imports of agri-food products. –
- Economic impact of port infrastructures.
- Agri-food trade, especially in the Euro-Mediterranean region.





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Department of Computer Engineering (DISCA)

<http://www.disca.upv.es>

Director: Juan-Luis Posadas-Yagüe

Contact: Julio Sahuquillo Borrás (sahuqui@disca.upv.es)
Pietro Manzoni (pmanzoni@disca.upv.es)

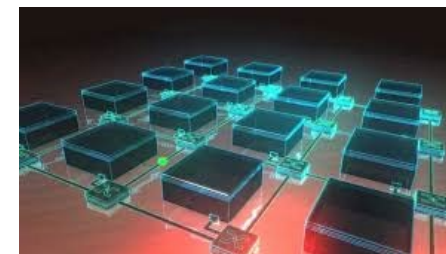


RESEARCH LINES/CAPABILITIES/FACILITIES

- High-Performance Interconnects
- Architectures
- Architecture-aware HPC Algorithms
- Embedded Devices
- Cloud Computing
- Resource Management
- Quantum Computer
- AIoT infrastructures for environmental sustainability
- Drone networks and swarms
- Efficient IoT infrastructures development
- Intelligent Transport Systems
- LPWAN-based networks
- Mobile edge computing
- Pub/Sub systems
- Social sensing

MASTER-PHD PROGRAMS

- Master's Degree in Computer and Network Engineering
- <https://www.upv.es/estudios/master/muicr/en/home/>



Department of Applied Linguistics (DLA)

<https://dla.webs.upv.es/>

Director: Francesca Romero Forteza (fromero@upv.es)

Contact - Subdirector Of Resarch: Teresa Molés-Cases (temoca1@upv.es)

RESEARCH LINES IN APPLIED LINGUISTICS

- Computer-assisted Language Teaching
- Contrastive Linguistics
- Corpus Linguistics
- Cognitive Linguistics
- Didactic
- Discourse Analysis
- Gender Studies
- Language Teaching and Learning
- Pragmalinguistics
- Sociolinguistics
- Terminology
- Translation

MASTER-PHD PROGRAMS

- Master in Languages and Technology
- PhD Program in Languages, Literatures and Cultures and their Applications

FACILITIES

- 4 multimedia classrooms (capacity: 15, 48, 40 and 32 people)
- Library
- Lecture hall
- Building: 4P
- <https://dla.webs.upv.es>





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Department of Business Management and Organization (DOE)

<https://www.upv.es/entidades/doe/>

Director: Gabriela Ribes Giner

Contact: apoyo.investigacion@doe.upv.es & soesmi@omp.upv.es

RESEARCH LINES/CAPABILITIES/FACILITIES

- Production and logistics optimization: advanced modelling, AI & Lean practices, supply chain & team management
- Circular economy, eco-innovation, social entrepreneurship, sustainable public-private and HR management
- Business Analytics, Cybersecurity, Information Systems Integration and Data Management for Decision Making
- Regional and sectoral innovation strategies, cluster development, and business ecosystems analysis
- Sustainable entrepreneurship through innovation, supportive business culture, and effective public policies. Female & technological entrepreneurship

MASTER-PHD PROGRAMS

- Executive Master in Business Administration (EMBA)
- Master in Digital Business Management and Leadership
- PhD Program in Industrial Engineering and Production
- PhD Program in Business Administration and Management



InnoecoLab



Cluster Innovation



Director: Ángel Martín Furones

Contact: aemartin@upvnet.upv.es

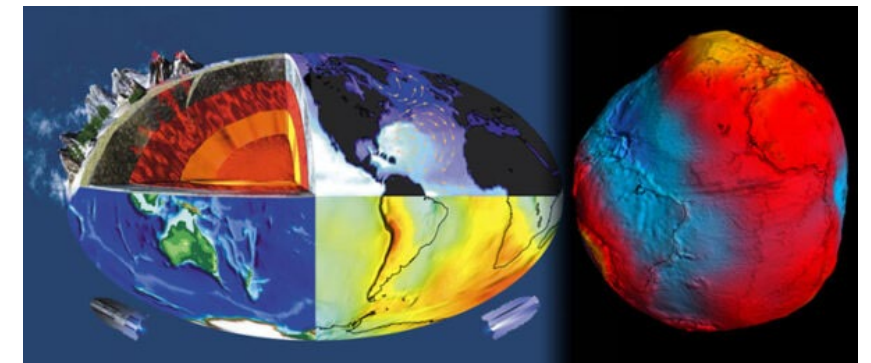
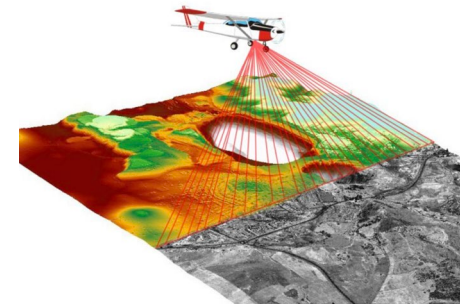
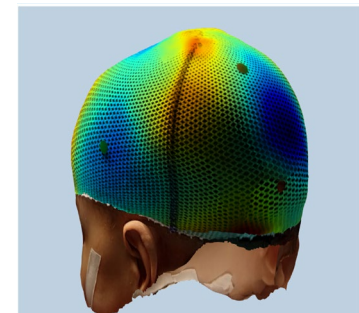
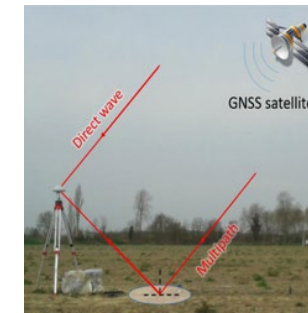


RESEARCH GROUPS/LINES:

- **Geoenvironmental Cartography and Remote Sensing Research Group (CGAT):** development of geoinformation technology tools based on remote sensing, GIS and LiDAR processing to analyze and map the territory, and its application in the study of the environment and natural resources in its broadest sense: forestry, agricultural, urban and coastal areas. Dir: Josep E. Pardo Pascual.
- **Photogrammetry and Laser Scanning Research Group (GiFLE):** New advances and technologies related to Photogrammetry, Computer Vision, Laser Scanning and Remote Sensing. Dir: José Luis Lerma García.
- **Geodesy, Cartography and GNSS Group:** GNSS submillimeter distancing for dimensional metrology, deformation monitoring, GNSS for the study of the troposphere, GNSS reflectometry, Geodynamics, real estate delimitation and legal geometries, Cartographic Coordination in the Territorial Administration System, Geolocation and characterization of safe public spaces in terms of gender violence, and UAS (drones). Dir: Sergio Baselga Moreno.

MASTER-PHD PROGRAMS:

- Inter-University Doctorate Program in Geomatics Engineering





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Department of Computer Systems and Computation (DSIC)

<https://www.upv.es/entidades/DSIC/>

Director: M^a Carmen Penadés (mpenades@dsic.upv.es)

Contact: depsic@upvnet.upv.es



RESEARCH LINES/CAPABILITIES/FACILITIES

- Parallel algorithms for the computation of large-scale sparse matrices
- Numerical methods for solving linear and nonlinear problems
- Software engineering for large-scale scientific computing
- Parallel matrix computation on GPUs and accelerators
- Simulation of the biomechanical behavior of human tissues/organs
- Automatic supervision systems for surgical training
- Medical image processing
- Research in Formal Language Theory and Finite Automata
- Research in Grammatical Inference
- Research in Natural Computation using biomolecular and cellular models

MASTER-PHD PROGRAMS

- PhD in Computer Science

<https://www.upv.es/entidades/edotorado/en/doctorate-program-in-computer-science/>



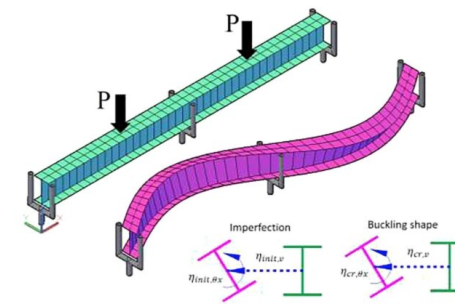
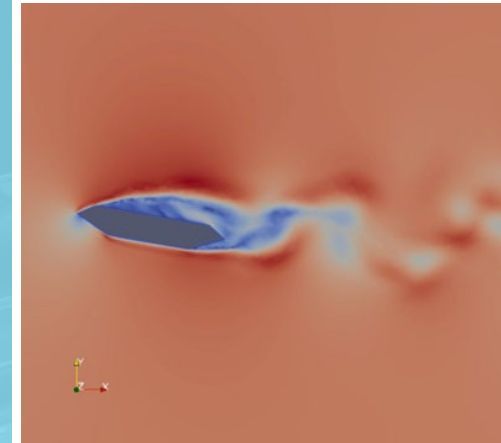
Director: Manuel L. Romero

Contact: depmes@upvnet.upv.es

MES DRAIN
Mejoramiento de Estructuras Continuas y
Teoría de Estructuras

RESEARCH LINES

- Lightweight structures for housing emergencies
- Thin walled structures & buckling
- Wind-induced vibration mitigation of bridge decks
- Theoretical and experimental bridge dynamics. Vibration control.
- Acoustic and dynamic characterization of materials.





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Departmet of Drawing (DIB)

<https://dibujo.webs.upv.es> <https://www.instagram.com/dibujoupv/?hl=es>

Director: Francisco Berenguer Francés (frabefra@dib.upv.es)

Contact: dibujo@upv.es

RESEARCH LINES/CAPABILITIES/FACILITIES

- **DESIGN RESEARCH AND MANAGEMENT GROUP**
(Design management, opportunity detection methodologies for generating new products and services; rapid prototyping technologies, digital modeling, and systemic design)
- **ANIMATION RESEARCH GROUP**
(Teaching and research in animation)
- **ART AND ENVIRONMENT RESEARCH CENTER**
(Graphic Work: Creation and Communication)

and collaboration with:

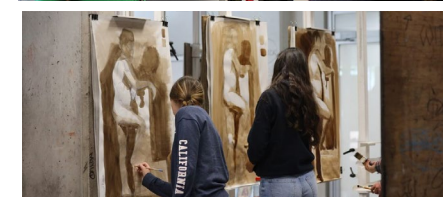
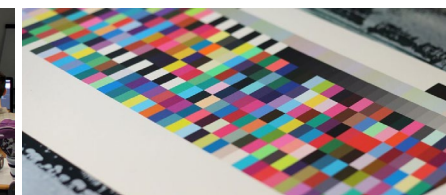
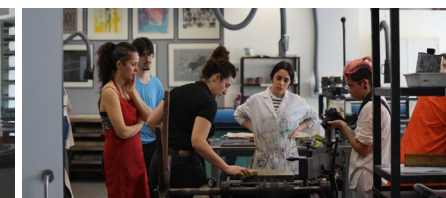
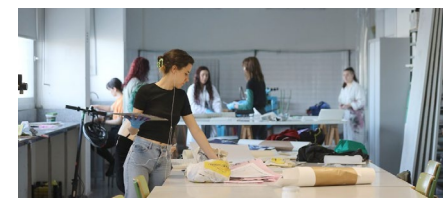
- Design for Manufacturing and Automated Production
- Center for Quality and Change Management
- Intermedia Creations Laboratory Group
- University Institute of Human-Centered Technology
- University Institute for Heritage Restoration
- Research Center in Architecture, Heritage and Management for Sustainable Development

MASTER-PHD PROGRAMS

- **Official PDH:** Doctoral Program in Art: Production and Research
- **Official Master's Degrees:** Master's Degree in Artistic Production · Master's Degree in Digital Postproduction · Master's Degree in Design Engineering
- **University-Specific Degrees:** Master's Degree in Animation · Master's Degree in Art Therapy · Master's Degree in Conservation and Restoration · Master's Degree in Design and Illustration · Master's Degree in Photography · Master's Degree in Interactive Technologies and Digital Fabrication · University Expert in Children's Products



ANIMACIÓN
UPV





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Dept. of Chemical and Nuclear Engineering/ Environmental and industrial safety group (MEDASEGI)

<https://sn.medasegi.webs.upv.es/>

Director: José Felipe Villanueva

Contact: depqmn@upvnet.upv.es



RESEARCH LINES/CAPABILITIES/FACILITIES

- Environmental Radiological Surveillance
- Radiation surveillance in nuclear or radiological emergencies
- Natural radiation (NORM and Radon)
- Radioecology
- Advanced reactors
- Reactor Safety
- Probabilistic Risk Analysis
- Reliability and asset management





RESEARCH LINES/CAPABILITIES/FACILITIES

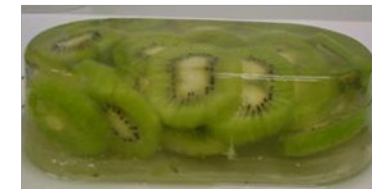
- Optimization of drying processes to maximize product quality: freeze-drying, atomization, air, microwave.
- Anàlysis of the nutritional profile and bioactive compounds, physical and techno-functional properties, in vitro bioactivity.
- Design of healthy and sustainable plant-based foods: powered products, snacks, drinks, sauces, bars, spreads...
- Valorization of plant-based by-products as powdered food ingredients

MASTER-PHD PROGRAMS

Master's Degree in Food Science and Engineering
Master's Degree in Food Safety and Quality Management
Doctoral program in Food Science, Technology and Management



Hacia una
alimentación
saludable, inteligente
y sostenible





RESEARCH LINES/CAPABILITIES/FACILITIES

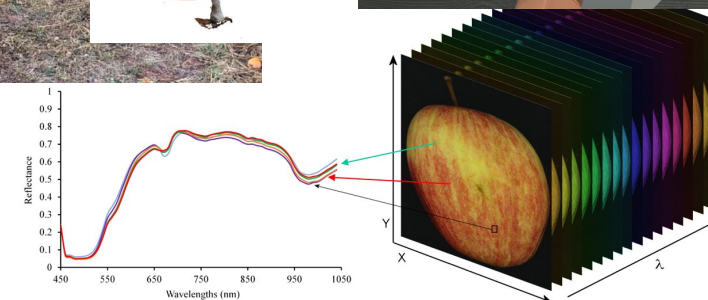
- Advanced optical systems and artificial vision technologies for food quality and safety
- Real time inspection for fruit quality
- Precision agriculture using LiDAR sensors, Hiperspectral and Thermal imaging
- Virtual and augmented reality applications in health, education and culture
- Digital image and signal processing of biomedical and behavioral data

MASTER-PHD PROGRAMS

- Master's Degree in Industrial Engineering
- Master's Degree in Telecommunication Engineering



DEPARTAMENTO DE
INGENIERÍA GRÁFICA





RESEARCH LINES/CAPABILITIES/FACILITIES

- **L1:** Data analytics: Analysis, monitoring, fault diagnosis and optimization of multivariate processes in industry 4.0
- **L2:** Process chemometrics and multivariate calibration
- **L3:** Integration of statistical monitoring (SPC) with regulation (EPC) of multivariate processes
- **L4:** Magnetic Resonance Medical Image Analysis
- **L5:** Image Analysis for industry 4.0
- **L6:** Statistical Methods Applied to the "Omics" Sciences
- **L7:** Systems Biology
- **L8:** Olfactory Sensometry
- **L9:** Environmetrics for cultural heritage
- **L10:** Functional Data Analysis (FDA)

MASTER-PHD PROGRAMS

- Master in Data Analysis Engineering, Process Improvement and Decision Making
- PhD Programme in Statistics and Optimisation





Painting department

<https://pintura.webs.upv.es/>

Director: Francisco Giner Martínez (fginer@pin.upv.es)

Contact: deppin@upvnet.upv.es

DEPARTMENT OF PAINTING – ACTIVITIES

- Bachelor's Degree Teaching
- Bachelor's Degree in Fine Arts
- Bachelor's Degree in Design and Creative Technologies
- Bachelor's Degree in Conservation and Restoration of Cultural Heritage

Master's Teaching

- Master in Artistic Production (UPV Official Master)
- Master in Visual Arts and Multimedia (UPV Official Master)
- Master in Design and Illustration (MDI)
- Master in Humanities: Ecology, Sustainability and Ecological Transition (MHESTE)

Specialization and Expert Diplomas (MDI)

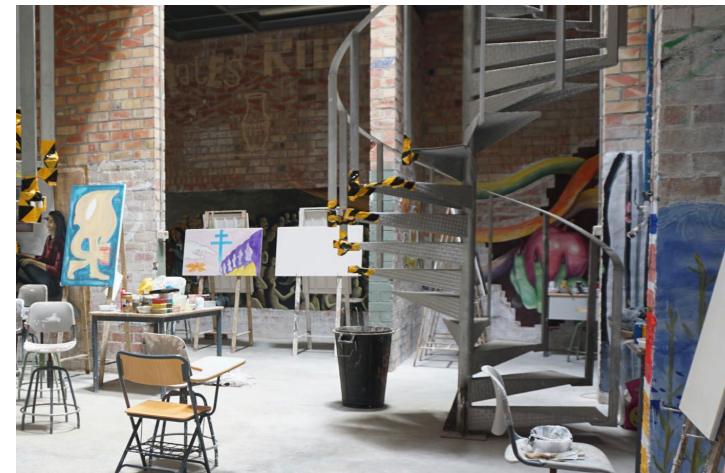
- Diploma of expert in Graphic Illustration
- Diploma of expert in Creative Design
- Diploma of expert in Interface Design

Other Specialized Programs

- DESEEEA: Diploma of Specialization in Sustainability, Ecological Ethics and Environmental Education

Research

- Art and Environment Research Center (Centro de investigación Arte y Entorno) (37 faculty members)
- Faculty researchers not affiliated with a research group (6 faculty members)
- Light Laboratory (Laboratorio de Luz) (5 faculty members)





RESEARCH LINES

- **Developmental physiology of geophytes**
PI: Rosa Victoria Molina Romero
rvmolina@upv.edu.es
- **Improvement of crop yield through the regulation of photoassimilate partitioning**
PI: Sergio González Nebauer
sergonne@upv.edu.es

CAPABILITIES/FACILITIES

- **Integrative approaches combining agronomic, physiological and omics methodologies**



- ELECTROCATALYSIS, ELECTROCHEMICAL SYNTHESIS AND POLYMER CHARACTERIZATION**

TEXTILE SUPERCAPS

Efficient in electrical accumulation, flexible, low cost and "eco-friendly"

ELECTROCHEMICAL REMOVAL OF MICRO AND NANOPLASTICS

Development of electrode materials for the electrochemical oxidation of micro- and nanoplastics in aquatic media

- TEXTILE ENGINEERING RESEARCH GROUP (GIITEX)**

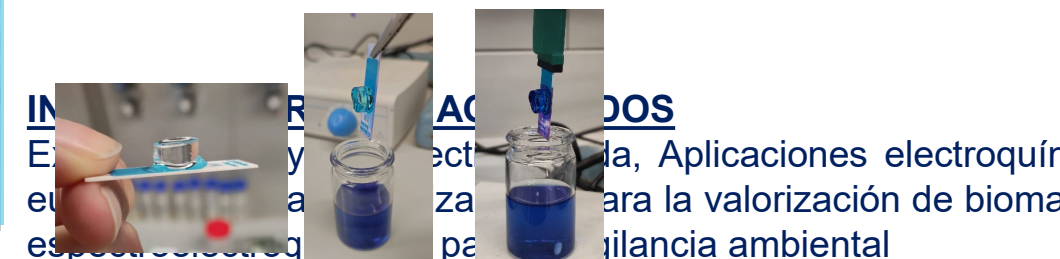
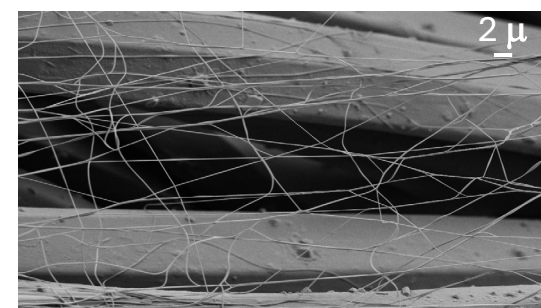
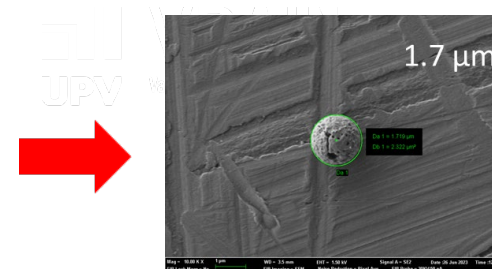
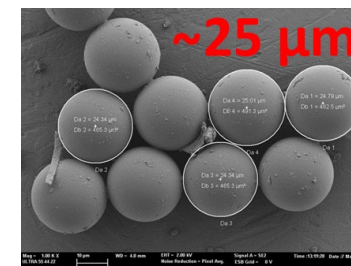
Development of innovative solutions for the functionalization of textile materials, with a firm commitment to sustainability and the circular economy throughout the textile value chain.

- ADVANCED OXIDATION PROCESSES GROUP**

Advanced water treatment using solar photochemical oxidation or UVC or UVB lamps. Biocompatibility and toxicity studies of treated samples.

- NON-GROUPED RESEARCHERS**

Electro-assisted L-L and S-L extraction, Electrochemical applications of DES and eutectogels, Nanocatalysts for biomass valorization, Spectroelectrochemical biosensors for environmental monitoring



No field

Electro assisted