

IAMA

Water and Environment Engineering

Civil Engineering Department



UCAM
UNIVERSIDAD CATÓLICA
DE MURCIA



GENERAL DESCRIPTION



The multidisciplinary research group IAMA (Water and environment engineering) focuses its work on the detection of new emerging contaminants, either chemical (including those from Pharmaceutical industry) or derived from metal, through the whole water cycle, waste management using natural resources (green filters and phytoremediation) and the study and soil recovery after mining exploitation.

The expertise of the IAMA research group has helped the regional government in the development of a data-base with all the contaminants identified in the Segura river basin. This contribution is going to be used for the legislation of new regional rules, to fight against this type of contamination.

Partners:





PRINCIPAL MEMBERS



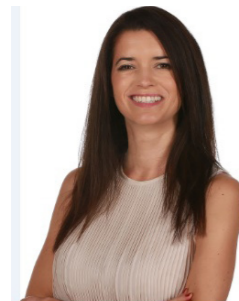
Civil Engineer Department Professor, Catholic University of Murcia.
 PhD in Agronomic Engineering in Water Resources Management,
 Polytechnic University of Cartagena.
 MSc in Agronomic Engineering, Polytechnic,
 University of Cartagena.

Dr. Carmen Fernández López
Research Head



Civil Engineer Department Professor,
 Catholic University of Murcia.
 PhD in Road, Channel and Port Engineering, University of Valencia.
 MSc in Road, Channel and Port Engineering, University of Valencia.

Dr. Francisco Pellicer Martínez
Researcher



Civil Engineer Department, Catholic University of Murcia.
 PhD in Agricultural chemistry, soil science,
 geology and environment, University of Murcia.
 Degree in Environmental Science, University of Murcia.

Dr. Isabel María Martínez Alcalá
Researcher



Institute for biodiversity and ecosystem dynamics,
 Universiteit van Amsterdam.
 PhD in Environmental Chemistry, University of Amsterdam.
 Degree in Chemistry, University of Manchester.

Dr. John Parsons
Researcher



PRINCIPAL MEMBERS



Vice-rectorate for research, laboratory management,
 Catholic University of Murcia.
 Degree in Industrial Chemistry, University of Murcia.

Dr. Gabriel Caravaca López
LabTechnician



Degree in Environmental Science,
 National University of Distance Education.
 MSc in Agronomic Engineering, University of Valladolid.

D. D. Mariano González García
PhD student



Civil Engineer Department Catholic University of Murcia.
 MSc in Road, Channel and Port Engineering,
 Catholic University of Murcia.

D. D. José Manuel Guillén Navarro
PhD student



SELECTED RESEARCH PROJECTS



2017

Biodegradation of pharmaceutical compounds by active sludge

Field: Water treatment and quality

Call: ESAMUR

Leader: Catholic University of Murcia.



2016

Evaluation of the degradation, adsorption and mass balance of pharmaceutical products during the treatment of waste water

Field: Water treatment and quality

Call: ESAMUR

Leader: Catholic University of Murcia.



2016

Study of migration in chlorinated drinking water for human consumption of MC-Flex 2099 FG material

Field: Water treatment and quality

Call: ESAMUR

Leader: Catholic University of Murcia.



2015

Qualitative and quantitative determination of diclofenac and other pharmaceutical compounds in Alcantarilla and Mula WWTPs (Murcia) Approximation by mass balance

Field: Water treatment and quality

Call: ESAMUR

Leader: Catholic University of Murcia.



2013

Comparative study of emerging and priority pollutants in different WWTPs in the Region of Murcia

Field: Water treatment and quality

Call: ESAMUR

Leader: Catholic University of Murcia.



SELECTED RESEARCH LINES



Waste management



Study and recovery of contaminated soils



Water treatment and quality



Numerical modeling in hydrology, hydraulics, water quality and environmental indicators



Sustainable use of unconventional water resources in agriculture

WHAT IS THE OPRI

The International Project Office (OPRI) is an office linked to the Vice-rectorate of Research, and is responsible for the management of international research projects at UCAM.

The OPRI was founded to strengthen the collaboration between our partners all around the world in the field of research. The unit was established in 2012 and has built strong alliances in 36 countries in which the university has to date participated in 41 projects.

The internationalization of the Catholic University of Saint Anthony, through the OPRI, is directed towards all of the university community, researchers as well as students. A total of 160 students have participated already in projects in a variety of countries all over the continent.

CALLS:



<http://investigacion.ucam.edu/opri>





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International Project Office UCAM
Vice-rectorate of Research

Catholic University of Saint Anthony
Los Jerónimos Campus, 30107 Guadalupe (Murcia)
Phone number: (+34)968 278 712
opri@ucam.edu
www.investigacion.ucam.edu/opri