J. Jaime Gómez-Hernández

Hydrogeology Group, Universitat Politècnica de Valencia 46022 Valencia

PROFILE

A full professor in Hydraulic Engineering with experience in University management, as vicerector, and research policy implementation, as an executive member of the Valencia regional government. As a researcher, Jaime has been an iconoclast, always ahead of his time in the treatment of subsurface heterogeneity and the modeling of groundwater flow. During his Ph. D. years, he postulated the difference between effective and equivalent properties in the context of groundwater flow upscaling, particularly in relation to hydraulic conductivity, and showed that there was not a unique homogeneous conductivity tensor that could replace a spatially heterogeneous one vielding the same response regarding groundwater flow; such an equivalent value will depend on the specific boundary conditions acting along the perimeter of the heterogeneous block. Such a "non-uniqueness" statement was not well received, particularly by practitioners in the petroleum industry. Later, he stated that the widely accepted assumption that hydraulic conductivity is better modeled as a multiGaussian random function was flawed and proposed the use of alternative non-multiGaussian random functions that would prevent the implicit lack of connectivity of extreme values associated with multiGaussian realizations, which is in contradiction with the existence of continuous streaks of very high or very low conductivities in the field. Such a proposition was not well received by the research community; however, the paper in which he developed this proposal is one of his most cited ones. Proposing new random functions requires developing new computer codes capable of generating realizations from these new random functions; he wrote the first indicator sequential simulation code, ISIM3D, capable of generating realizations over very large domains controlling the spatial continuity at the extreme values. Such code evolved in the widely used multivariate multiGaussian sequential simulation, GCOSIM3D, for the generation of multiple cross-correlated realizations from a joint multivariate multiGaussian random function. When he shifted his research focus onto the problem of inverse modeling in hydrogeology, his first proposal was to abandon the traditional way of doing inverse modeling aimed at obtaining a single optimal map of hydraulic conductivities that would reproduce observed piezometric heads, because such an approach always yields smooth representations of conductivity spatial variability. He proposed to use a stochastic approach, whereby multiple realizations of hydraulic conductivity would be generated, with appropriate spatial heterogeneity, all of which would reproduce piezometric heads at observed locations. On one hand, such an approach circumvents the sempiternal obstacle of inverse problem non-uniqueness, indeed, all realizations reproducing the observed heads could be a viable representation of the underlying heterogeneity. On the other hand, the final ensemble of realizations serves to evaluate the uncertainty about hydraulic conductivities. For this kind of stochastic inverse modeling, he developed the sequential self-calibrated method, the first such modeling approach that was first tested with great success in a benchmark comparison carried out by Sandia National Laboratories and later widely adopted. He demonstrated that only when such a stochastic inverse approach is performed the resulting fields could be used for transport modeling vielding acceptable results; the smooth single realization optimal conductivity field obtained with traditional inverse modeling would always underestimate travel times and solute dispersion, whereas the analysis of the multiple heterogeneous

conductivity fields resulting from a stochastic inverse modeling would provide accurate and precise results. In the quest to better characterize hydraulic conductivity heterogeneity, he has focused on improving existing methods and creating new ones for stochastic inverse modeling, such as geomorphing, developed for the generation of categorical fields of conductivity heterogeneity, for those cases in which across-facies heterogeneity is more important than within-facies heterogeneity; inverse sequential simulation, a variant of sequential simulation, in which the cross-covariances between conductivities and piezometric heads are computed based on ensembles of realizations of both conductivity and piezometric heads; blocking Markov-chain Monte Carlo, to sample the posterior multivariate probability of conductivity fields conditioned on piezometric heads without any restriction on the underlying random function; and more recently the normal-score ensemble Kalman filter, an extension of the ensemble Kalman filter to avoid the inherent effect of Kalman filtering of converging towards Gaussian realizations. More recently, his research work has dealt with the field of Forensic Hydrogeology, and specifically, the identification of contaminant sources (point, areal, single, with multiple pulses) using some adaptations of the inverse methods developed for the specific (and hard) problem of source location identification. Promising results in synthetic and laboratory experiments have been obtained, and now the objective is to demonstrate its application with real field data. Finally, his research has focused on the use of machine learning in groundwater modeling, where he has developed surrogate models using random forests and also physics-informed neural networks.

EXPERIENCE

Full Professor, Technical University of Valencia – since 2000

An active researcher in stochastic hydrogeology and geostatistics since 1985, he became Associate Professor in 1994, and Full Professor in 2000. He has maintained a very active group in hydrogeology and has been the Principal Investigator of numerous Spanish and European Projects, from competitive calls and also under demand for companies and institutions.

Head of the Hydrogeology Group, Technical University of Valencia — since 2007 After the retirement of his mentor, Prof. Andrés Sahuquillo, he took the lead of the Hydrogeology Group at the Institute for Water and Environmental Engineering of the Technical University of Valencia.

TeachInParma Invited Professor, University of Parma (Italy) = 2018–2021

Visiting professor for periods ranging between one and three months at the Department of Engineering and Architecture to collaborate in works related to contaminant source identification, climate change, and sustainable management of aquifers. Financed by the CariParma Foundation.

Visiting Professor, University of Parma (Italy) = 2022, 2024Short stays to teach Introduction to Geostatistics for Environmental Applications

Visiting Professor, University of Kansas (USA) -2017On sabbatical at the Kansas Geological Survey to collaborate in works related to aquifer characterization and modeling.

Invited Professor, University of São Paulo (Brazil) - 2015, 2017, 2018

Visiting professor in the framework of a project about upscaling soil properties. Financed by the CNPq, the Brazilian Scientific Council.

Director General for Scientific and Technological Infrastructures, Ministry of Enterprise, University and Science, Government of Valencia — 2005–2007

Responsible for coordinating the creation of the network of scientific parks in the Valencia Region. Responsible for establishing a pool of technology transfer agents in the scientific parks. Responsible for implementing the Competitiveness Plans for the traditional and emerging industrial sectors in the Valencia Region. Working always at the university-industry interface with the aim of accelerating the technology transfer from university to industry.

Vice-rector for Faculty and Research Personnel, Technical University of Valencia =2004-2005

Responsible for the development and implementation of University-wide faculty and research personnel-related policies

Vice-rector for Graduate Studies, Technical University of Valencia – 2000–2004 Responsible for the coordination of Graduate Studies. President of the University Ph.D. Commission.

Cox Visiting Professor, Stanford University – 1999–2000

On sabbatical leave at the Department of Geological and Environmental Sciences.

Various companies — 1983–1994

Different applied research projects for companies such as Exxon Production Research (USA), Shell International (Holland), Total (France), Sandia National Laboratories (USA), Applied Geomechanics (USA), FSS International (Switzerland), EPTISA (Spain)

EDUCATION

Stanford University, Stanford, USA — Ph.D. in Geostatistics, 1990 Stanford University, Stanford, USA — M.S. in Applied Hydrogeology, 1987 Universidad Politécnica de Valencia, Spain — Civil Eng. degree with the highest honors and Head of the Class of 1983

RESEARCH

World-recognized researcher in Hydrogeology, he is the author of more than 100 publications in refereed journals such as Water Resources Research, Journal of Hydrology, Mathematical Geology, Journal of Contaminant Hydrology, Advances in Water Resources Research, SPE Formation Evaluation, Journal of Stochastic Hydrology and Hydraulics, Groundwater or Computer and Geosciences.

He has also participated in numerous Spanish and European Projects, such as:

Sustainable water storage and distribution in the Mediterranean · Principal Investigator A PRIMA Foundation project financed by H2020 with 4092 k€ — June, 2023 - June, 2026

Innovative and Sustainable Groundwater Management in the Mediterranean (InTheMED) $\boldsymbol{\cdot}$

Project Coordinator A PRIMA Foundation project financed by H2020 with 1589 k€ — March, 2020 - Aug, 2023

INVITED TALKS

He has participated in close to 400 presentations at congresses, workshops, and seminars. Of them, the following ones were by invitation

Senior UPV, Valencia (Spain) - 2024

IDRA2024, Parma (Italy) — 2024

DeltaSOS, Alicante (Spain) -2024

Ecole Supérieure des Ingénieurs de Medjez El Bab, Medjez El Bab (Tunisia) - 2023

Catalan Water Partnership, Barcelona (Spain) - 2022

Instituto Nacional del Agua de Argentina, Virtual (YouTube) – 2022

IAMG Student Chapter, Freiberg (Germany) - 2022

VEGAS Laboratory, University of Stuttgart, Stuttgart (Germany) – 2022

Chevron Headquarters, Houston (USA) – 2022

Groundwater Symposium, EWRI, Atlanta (USA) – 2022

University of Neuchâtel, Neuchâtel (Switzerland) - 2022 UTEC, Uruguay, Virtual (Zoom) - 2021 Geostats2016, Virtual (Zoom) - 2021 IAMG Annual Meeting, Virtual (Zoom) - 2021 ICWRAE, Virtual (Zoom) – 2021 IAH Colombian Chapter, Virtual (YouTube) – 2020 TEDxUPValencia, Valencia (Spain) - 2020 Jawaharlal Nehru U, New Delhi (India) – 2020 Universidade de São Paulo, São Carlos (Brasil) - 2018 Closing the Gap Conference, Lake Louise (Canada) – 2018 Spatial Accuracy, Beijing (China) – 2018 China University of Geosciences, Beijing (China) - 2018 Universidade de São Paulo, São Carlos (Brasil) - 2017 IAH Conference, Montpellier (France) – 2016 SIAM Conference on Uncertainty Quantification, Laussane (Switzerland) – 2016 SIAM Conference on Uncertainty Quantification, Stanford (USA) - 2015 Pedometrics, Seville (Spain) - 2015 NovCare2015, Lawrence (USA) – 2015 geoENV2014, Paris (France) - 2014 EGS, Vienna (Austria) – 2014 Italian Statistical Society, Cagliari (Italy) - 2014 MEME2014, Aveiro (Portugal) - 2014 Multi-scale Inverse Methods, Warwick (United Kingdom) – 2013 Stanford Center for Reservoir Forecasting 25th Anniversary, Pacific Grove (USA) - 2012 Novelda Casino Science Outreach Week, Novelda (Spain) - 2010 30 Years of Stochastic Hydrogeology, Ascona (Switzerland) – 2010 University of Edmonton, Edmonton (Canada) – 2009 University of Tübingen, Tübingen (Germany) - 2009 University of Neuchâtel, Neuchâtel (Switzerland) – 2009 EGS, Vienna, (Austria) - 2008 Unsaturated Zone Seminar '05, La Coruña (Spain) - 2005 IAH Congress, Alicante (Spain) - 2005 7th International Geostatistics Congress, Calgary (Canada) – 2004 MODFLOW 2003, Golden (USA) - 2003 GEOMA '03, Castellón (Spain) – 2003 XIV Computational Methods in Water Res., Delft (The Netherlands) – 2002 IAHS ModelCare 2002, Prague (Czech Republic) - 2002 XIV Computational Methods in Water Res., Delft (The Netherlands) – 2002 Spatio-Temporal Modeling, Benicàssim (Spain) – 2001 ECCOMAS2000, Barcelona (Spain) – 2000 XIII Computational Methods in Water Res., Calgary (Canada) – 2000 Gordon Conference 2000, Andover (USA) – 2000 IAHS ModelCare 99, Zurich (Switzerland) – 1999 Chevron Oil Company, San Ramón (USA) – 1999 Stanford University, Stanford (USA) - 1999

SCRF Annual meeting, Stanford (USA) – 1999 5th Annual meeting IAMG, Trondheim (Norway) - 1999 SCRF Annual meeting, Stanford (USA) – 1998 XXIII EGS General Assembly, Nice (France) – 1998 Workshop on dynamic prediction, Valencia (Spain) – 1997 CIBA Symposium on Precision Agriculture, Wageningen (The Netherlands) – 1997 5th International Geostatistics Congress, Wollongong (Australia) – 1996 Workshop on reliability of process models, Edinburgh (United Kingdom) – 1996 JEC-GIS '96, Barcelona (Spain) – 1996 COST Action 67, Mont Saint-Odile (France) – 1996 Southwest Research Institute Seminars, San Antonio (USA) – 1995 Dep. of Geographical Sciences, Utrecht (The Netherlands) - 1994 ENRESA, Madrid (Spain) - 1994 Stanford University, Stanford (USA) – 1993 Sandia National Laboratories, Albuquerque (USA) – 1993 Institute for Land and Water Management, Leuven (Belgium) - 1993 Statistics of Spatial Processes, Bari (Italy) – 1993 ENRESA, Madrid (Spain) - 1991 INTRAVAL, Santa Fe (USA) - 1991 Institut für Waserbau, Stuttgart (Germany) – 1991 Norsk Hydro, Oslo (Norway) - 1990 Shell Exploratione en Produktie Lab, Rijswijk (The Netherlands) – 1990 Elf Aquitaine Production, Pau (France) – 1990

EDITORIAL BOARDS

Advances in Water Resources — 1997–present Mathematical Geosciences — 2012–present Springer Nature Applied Science — 2018–present Frontiers in AI in Food, Agriculture and Water — 2019–present Water — 2018–2020 Journal of Hydrogeology — 2006–2010 Journal of Hydrology — 1997–2008

GUEST EDITOR

Mathematical Geosciences — 2025 Special issue on geoENV2024

Journal of Applied Earth Observation and Geoinformation — 2025 Special issue on Foundation Models EO Discover Water — 2025 Collection on Integrating Water, Energy, Food and Ecosystem Services (WEFE) towards

Sustainable Nexus Water Management. Journal of Hydrogeology — 2023 Special issue on Geostatistics and Hydrogeology.

Journal of Contaminant Hydrology — 2022 Special Issue on Innovative Remediation. It sprung from the 2021 InterPore Annual Meeting.

Frontiers in AI in Food, Agriculture and Water – 2021 Research Topic on Machine Learning for Water Resources.

Frontiers in Earth Science - 2021

Research Topic on Inverse Stochastic Hydrogeology.

Water Resources Research - 2021

Special Section on The Quest for Sustainability of Heavily Stressed Aquifers at Regional to Global Scales. It sprung from the AGU Chapman Conference of the same title held in Valencia in 2019.

Mathematical Geosciences – 2021

Special issue in honor of André G. Journel, the father of modern geostatistics and Jaime's Ph.D. advisor.

Water — 2019

Special Issue on Heterogeneous Aquifer Modeling: Closing the Gap.

Water Resources Research – 2017

Special Section on Modeling highly heterogeneous aquifers: Lessons learned in the last 30 years from the MADE experiments and others. It sprung from the AGU Chapman Conference of the same title held in Valencia in 2015.

Mathematical Geosciences — 2016 Special issue on Geostatistics for Environmental Applications

Mathematical Geosciences – 2013

Special issue on Environmental Geostatistics with selected papers from the geoENV2012 conference held in Valencia in 2012.

Spatial Statistics — 2013 Special issue with selected papers from the geoENV2012 conference held in Valencia in 2012.

Mathematical Geosciences — 2012 Special issue on Recent Developments in Subsurface Flow and Transport.

Journal of Hydrology — **2003** Special issue on Stochastic Inversion in Hydrogeology.

Mathematical Geosciences — 1999 Special issue on Modeling Subsurface Flow.

Journal of Hydrology — 1986 Special issue on Effective Parameters for Model Flow and Transport in the Subsurface.

CHAIRMAN OF CONFERENCES

SustainValencia2022 · Valencia · October 6–8, 2022

Conference on Achieving Sustainable Groundwater Management: Promising Directions and Unresolved Challenges. It emerged as an offspring of the 2019 Chapman Conference.

Iberian Groundwater Congress · Valencia · November 17–19, 2019

A congress jointly organized by the Spanish and Portuguese Chapter of the International Association of Hydrogeologists that attracts about 100 participants.

IAH Annual Conference (Chair of the Scientific Committee) · Málaga · September 22–27, 2019

Annual conference of the International Association of Hydrogeologists. As chairman of the Scientific Committee, he had to supervise abstract submission and review and build the final program with more than 700 presentations.

AGU Chapman Conference · Valencia · October 21–24, 2019

A conference, sponsored by the American Geophysical Union, attracted about 100 people to discuss The Quest for Sustainability of Heavily Stressed Aquifers at Regional to Global Scales.

InterPore Annual Meeting (Chair of the Local Organizing Committee) · Valencia · May 6–10, 2019

Annual conference of the International Society for Porous Media. As chairman of the Local Organizing Committee, he had to supervise all matters regarding the proper running of the conference at the Valencian Conference Center with more than 800 participants.

AGU Chapman Conference · Valencia · October 6-8, 2015

A conference that attracted about 100 people to discuss Modeling highly heterogeneous aquifers: Lessons learned in the last 30 years from the MADE experiments and others.

Iberian Groundwater Congress · Valencia · September 8–10, 2014

A congress jointly organized by the Spanish and Portuguese Chapter of the International Association of Hydrogeologists that attracts about 100 participants.

geoENV2012 · Valencia · September 19–21, 2012

The 9th biennial congress of the International Association of Environmental Geostatistics (geoENVia) attracted about 100 participants.

IAHR Groundwater Symposium · Valencia · September 22–24, 2010

The 4th International Groundwater Symposium organized by the International Association for Hydro-Environment Engineering and Research attracted about 100 participants.

geoENV98 · Valencia · November 18–20, 1998

The 2nd biennial congress of the International Association of Environmental Geostatistics (geoENVia) attracted about 100 participants.

AWARDS

Tech. U. of Valencia Research Award for Career Achievement Civil Engineering – 2024

Recognizing the research achievements of the last ten years in the field of civil engineering.

EWRI ASCE Pioneers in Groundwater Award - 2022

It recognizes and honors an individual with pioneering contributions in the teaching, research, and/or practice of groundwater science and engineering.

Forbes list of the 50 most internationally awarded Spaniards -2021

It includes a list of the 50 Spaniards most recognized with international prizes in the last five years and with the largest impact in their respective areas.

IAMG Distinguished Lecturer - 2021

Appointed by the International Association of Mathematical Geosciences as its Distinguished Lecturer for the year 2021, he could not deliver any in-person talk because of COVID. The association allowed him to deliver a few in-person talks in 2022.

IAMG William Christian Krumbein Medal – 2020

Awarded biennially, it is the highest distinction awarded by this association to a senior scientist for career achievement, which includes (a) distinction in the application of mathematics or informatics in the earth sciences, (b) service to the IAMG, and (c) support to professions involved in the earth sciences.

Prince Sultan bin Abdulaziz International Prize for Water = 2020

Awarded biennially, the PSIPW is a scientific prize with a focus on innovation. It rewards the efforts made by scientists, inventors, and research organizations around the world that contribute to the sustainable availability of potable water and the alleviation of the escalating global problem of water scarcity. It is a suite of five prizes; Jaime won in the groundwater category for his achievements in the solution of inverse problems in hydrogeology. This is probably the most prestigious prize in water resources, both for its prestige and endowment.

Technical University of Valencia Social Council Outreach Award -2020

Awarded in recognition of Jaime's work as ambassador of the Technical University of Valencia. The numerous congresses that Jaime has organized on the premises of his university have served to turn Valencia into a reference location in the world of groundwater resources research.

InterPore Rosette - 2019

Each year, InterPore honors selected individuals who have made very significant contributions to InterPore activities; they receive the InterPore Rosette.

Top Reviewers for Environmental Sciences – 2017

A recognition given by Publons to the reviewers who have performed the largest number of reviews in their field during the year.

Sentinel of Science - 2016

A recognition given by Publons to the reviewers who have performed the largest number of reviews in their field during the year.

Certificate of Excellence in Reviewing, Advances in Water Resources - 2013

Awarded by the journal Advances in Water Resources in recognition of his dedication to the journal as a reviewer.

Valencian Community Prize on Research on Waste Disposal – 1999

Awarded by the Ministry of Environment of the Valencian Community in Spain, it recognizes the work in the study of aquifers and the impact of contamination in the management of water resources. Besides the prestige, this prize carried a substantial endowment.

Editor's Citation for Excellence in Refereeing, WRR - 1993

Awarded by the journal Water Resources Research in recognition of his dedication to the journal as a reviewer.

Stanford University Centennial Teaching Assistant - 1990

During the last year of his Ph. D., Stanford University celebrated its 100th anniversary and created a special recognition to excellent teaching assistants

School of Earth Sciences Outstanding Teaching Award - 1990

The School of Earth Sciences of Stanford University awarded every year one of its teaching assistants. The selection was done by the undergraduate students through a school-wide poll.

National Prize to the Best Civil Engineer Graduate - 1983

The Spanish Ministry of Education distinguishes, yearly, the best students from the different undergraduate degrees. Jaime received the prize in the Civil Engineering category.

SERVICE

Jaime has devoted a substantial part of his time to service to the community. Some of the positions he has held are described below

FOR INTERPORE

Chairman, Program Committee – 2024–2026

In charge of overseeing the program of InterPore conferences of 2024, 2025, and 2026.

Student Affairs Committee - 2020, 2023

Workshop offered on "What makes a good research paper? 10 tips for success"

InterPore Social Program – 2019, 2020, 2021

Magic show offered to the participants in Valencia, and online during COVID.

Chairman, Local Organizing Committee – 2019 The last conference before COVID took place in Valencia.

FOR THE EUROPEAN GEOPHYSICAL UNION

Secretary of Hydrogeology - 1994-1996

Assist the Hydrology Division President in the organization of the Annual meeting.

Session convener - 1993, 2000, 2001, 2022, 2023, 2024

Session convener on topics related to subsurface flow, inverse modeling, sustainable management and geostatistics.

FOR THE INTERNATIONAL ASSOCIATION OF MATHEMATICAL GEOSCIENCES

Council, elected Member -2016-2019

Member of the executive body of the IAMG Council elected by voting among the associates.

Strategic Plan Commission Member – 2015

In 2015, there was a revamping of the association and a commission was formed to build a strategic plan.

Meetings Committee Member – 2009–2016

This commission oversees the selection of the venue for the next annual meeting.

Publications Commission, Member -2001-2004, Chairman -2019-2024This commission deals with all matters related to the journals owned or endorsed by the association.

Lecture Commission Member - 1999, 2008-2020, 2022-

This commission is responsible for selecting the Distinguished Lecturer for the IAMG and the Matheron Lecturer.

FOR THE INTERNATIONAL ASSOCIATION OF ENVIRONMENTAL GEOSTATISTICS

The International Association of Environmental Geostatistics (geoENVia) was founded in 2002 to oversee the organization of the biennial Conference on Geostatistics for Environmental Applications (geoENV), which started in 1996 in Lisbon.

Founder geoENV Conference Series – 1996

Together with Amílcar Soares and Roland Froidevaux, Jaime founded the successful geoENV conference series. In the late '90s, there was a rise in awareness about the environment marking the perfect timing to create such a focused conference. It started as a European conference but after the first few editions it was clear that it attracted communications from all over the world and the European qualifier was dropped.

Founder geoENVia - 2002

At the fourth edition of geoENV, the three founders and, so far, guarantors that the conference had a continuity founded the Swiss-based geoENVia to ensure the continuity of the conference.

President geoENVia — 2002–2006, 2016–2022

Member of the geoENV Organizing Committee - 1996, 2002, 2004, 2018, 2021, 2022, 2024

President of the geoENV Organizing Committee — 1998, 2012

FOR THE SPANISH NATIONAL PLAN FOR R+D

Expert consultant to write the Spanish National Plan for R+D - 2004

Every year, the Spanish government hires experts in different fields to help in the writing of the call for research and development projects that will be publicly financed.

Manager of the Water Resources Program of the Spanish National Plan for R+D = 2003-2005

Responsible for supervising all projects financed by the Spanish R+D Plan on the subject of water resources and also presiding over the committee that had to decide, every year, on the projects that should be financed.

FOR THE INTERNATIONAL ASSOCIATION OF HYDROGEOLOGISTS (IAH)

Spanish Chapter · President, 2012–2015 · Past President, 2015–2021 · Vice President, 2021– Jaime has been a member of the Spanish Chapter of the IAH for many years, but he has become deeply involved with the organization after he accepted to run for President in 2012. Since then, he has been a member of the Council with different roles.

Spanish Chapter Conferences – 1998, 2014, 2021, 2022, 2024

Jaime has participated as a member of the Organizing Committee of the conference "The problems of groundwater contamination" of 1998, as President of the Organizing Committee of the Iberian Conferences of 2014 and 2021, and as a member of the Organizing Committee of the Iberian Conference of 2022 and 2024.

Short Course on Numerical Modeling of Groundwater Flow and Transport — 2017–2024 He has participated pro-bono, for the benefit of the Spanish Chapter of the IAH, like the rest of the professors, in this successful short course that is offered every year in a different city in Spain (Valencia, Madrid, Oviedo, Sevilla, Alicante, León, Zaragoza, and Granada).

FOR OTHER ORGANIZATIONS AND INSTITUTIONS

Spanish Ministry of Ecologic Transition and Demographic Challenge \cdot Action Plan for Groundwater - 2023-

Appointed by the Director General of Water as a member of the Action Plan supervision panel representing Spanish universities.

Center de Recursos Naturais e Ambiente (CERENA) · Advisory Board - 2010-Member of the CERENA International Advisory Board. President for the meetings in 2017, 2020 and 2022

Fundação para a Ciência e a Tecnologia, Portugal \cdot Earth and Environmental Sciences Panel- 2020

As panel members, we had to evaluate all proposals submitted to the 3rd Edition of the Stimulus of Scientific Employment, Individual Support call, and decide, during two meeting evaluations the candidates to be funded in the different categories.

European Research Council \cdot Starting Grant Panel PE10 "Earth Systems Science" - 2017, 2019

As panel members, we had to pre-evaluate all proposals submitted to the Starting Grant Panel PE10, and later conduct two meetings in Brussels, the first one for the selection of the candidates that will pass to the interview phase, and the second one for the interviews and the final decisions.

IDENTIFICATIONS

Open Researcher and Contributor ID $\left(\text{ORCID}\right) = 0000\text{-}0002\text{-}0720\text{-}2196$

Google Scholar ID – PBHrWdMAAAAJ

Web of Science Researcher ID - J-6315-2013

Scopus Author ID - 7005555097