



Università  
degli Studi  
di Ferrara



IUSS

Istituto Universitario  
di Studi Superiori  
Ferrara 1391

Collegio dei Docenti del corso di dottorato in

**Nome corso dottorato**

**Name and Surname: LUIS BARBERO**

*Position and topic of research: FULL PROFESSOR GEOCHEMISTRY AND PETROLOGY*

Department? EARTH SCIENCES

(ORCID ID) <https://orcid.org/0000-0002-3513-2025>

**(Scopus Author ID) 16027620900**

- Curriculum

Since 1991, when I defended my doctoral thesis, I have completed five six-year research evaluation periods, seven five-year teaching periods, and five regional research complements. In addition to project management responsibilities, I served as the Secretary of the Department of Earth Sciences at the University of Cádiz for six years across two different terms. I have been a member of numerous university committees, the Faculty Board, and the University Senate for fourteen years. From February 2011 to March 2013, I was Vice Dean of the Faculty of Marine and Environmental Sciences. From March 2013 to May 2015, I held the position of Director General for Research at the University of Cádiz. From October 2018 to October 2022, I served as the Director of the Department of Earth Sciences at the University of Cádiz. As a result of my research activity, my h-index is 24, with a total of 2,720 citations as of April 2024, 976 of which (36%) were since 2019, 52 publications in Q1 journals, and a total of 84 contributions. I have supervised 4 doctoral theses and participated as a researcher or principal investigator in 12 competitive projects since 2001.

After defending my doctoral thesis, I completed my postdoctoral training over two years at the Scottish Universities Research and Reactor Centre and the University of St Andrews (United Kingdom). Subsequently, I was hired by the Department of Geology and Applied Geology at the University of Glasgow (United Kingdom) for a three-year term, which I left early upon securing a position as Associate Professor at the University of Cádiz in 1995. I also hold a Postgraduate Diploma in Geological Engineering from the Complutense University of Madrid and a University Expert Certificate in Virtual Teaching from the University of Cádiz.

Starting in 1998, I became interested in isotopic geochemistry and low-temperature geochronology, fields more aligned with the research and teaching focus of a Faculty of Marine and Environmental Sciences. With support from the Royal Society of London in 1998 and 1999, I undertook two research stays of several months at University College London, where I learned fission-track thermochronology techniques in apatite and zircon under the guidance of Prof. Hurford. Later, with a project funded by the European Regional Development Fund (FEDER), I established the first fission-track analysis laboratory in Spain in the late 1990s.

Between 2000 and 2012, I explored other research areas within low-temperature geochemistry and geochronology, such as using uranium and thorium disequilibrium series isotopes to study processes in coastal marine zones and environmental issues. This work included a Salvador de Madariaga



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Research Fellowship, during which I spent five months at Northern Arizona University and Wayne State University in USA.

In January 2012, I obtained a Full Professor position after earning national accreditation, presenting an original research project titled “Behavior of Uranium-Thorium Disequilibrium Series under Extreme Acidic Conditions.” This project was later submitted to the National Plan for Fundamental Non-Oriented Research Projects of the Ministry of Economy and Competitiveness (MINECO), funded, and completed in December 2015.

Currently, I am the Rector's delegate responsible for the Drone Service at the University of Cádiz (Drone Service – Dron UCA). I served as the Principal Investigator for the MINECO infrastructure project titled “Unmanned Aerial Platforms Service for Research in the Lines of the International Excellence Campus of the Sea (CEIMAR) and the International Agro-food Excellence Campus (CEIa3) of the University of Cádiz” and for another MINECO infrastructure project titled “Improving the Capabilities of the Drone Service at the University of Cádiz.”

- Research interests

Low altitude remote sensing using UAVS. UAV photogrammetry, thermography, LidAR mapping, multi and hyperspectral sensors onboard UAV for coastal and environmental research

- Main publications

- <https://orcid.org/0000-0002-3513-2025>