



Università
degli Studi
di Ferrara



IUSS

Istituto Universitario
di Studi Superiori
Ferrara 1391

Collegio dei Docenti del corso di dottorato in

Nome corso dottorato

Alfredo Izquierdo

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- Curriculum (descriptive?)

- I am graduated in Oceanography (Master of Science) at the Russian State University of Hydrometeorology, S. Petersburg, Russian Federation, (1990 - 1994). The subject of the diploma work was the two-dimensional modeling of an oil spill over water, directed by Prof. Boris A. Kagan (P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences).

Back in Spain, I started my PhD in the then new research group of Physical Oceanography: Dynamics, at the University of Cádiz (UCA), working fundamentally, but not exclusively, on the barotropic tides of the Strait of Gibraltar. The opportunity offered by the multidisciplinary environment of the Faculty of Marine and Environmental Sciences allowed me to use the strong theoretical training Physical Oceanography and the numerical modeling capabilities acquired in my graduate years to collaborate with other research groups. After my PhD thesis defense (dealing with the dynamics and energetics of surface tides in the Strait of Gibraltar) I received a contract from the Ramón y Cajal Program in 2001. In 2006 was contracted at UCA as associate Professor (Profesor Contratado Doctor). In 2008 I started to collaborate with the Max Planck Institute of Meteorology (MPI), in Hamburg, Germany, through a stay funded the José Castillejo Program. The results of the work done there with Dr. Uwe Mikolajewicz on modeling the effect of tides on the distribution of Mediterranean waters in the Atlantic Ocean were very promising. For this reason, in the following call a Marie Curie Fellowship was requested, which was granted and with which I spent two years working in the Department of Ocean in the Earth System, of the MPI.

Considering that a large part of my professional career has been spent at the university, and that I joined a young research group, my professional activities have included, from the beginning, the teaching, mentoring and direction of graduate, master, and doctoral students; the management and direction of projects and the search for competitive financing. I have participated in more than 25 academic, research or contract projects, at a European or national level. I have also been the coordinator or Principal Investigator of 8 projects, including some of European funding.

I have co-supervised 7 doctoral theses (Agueda Vazquez, Emma Reyes, Carlos González, Tomás Fernández, Kiani Harchegani Farkhondeh), Iván Parras-Berrocal and Rubén Vázquez Medina; and currently I supervise others. I have supervised over 20 master theses and diploma (graduate) works.

I collaborate with researchers from Russia, Germany, United Kingdom, Portugal, Italy, USA, Morocco, Colombia, Mexico, where I have made research stays.



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- Research interests

- Currently my interests are focused on tidal processes in the Strait of Gibraltar and the Gulf of Cádiz, Operational Oceanography, the role of Mediterranean waters in the North Atlantic Ocean, climate and climate change processes in the Mediterranean and North Atlantic, coastal dynamics and multidisciplinary oceanography, with emphasis on physical-biological coupling. Although my specialization is numerical modeling, I have skills in data analysis, and in the transfer of research results to other areas of knowledge.

- Main publications

<https://produccioncientifica.uca.es/investigadores/112784/publicaciones>