

Manoela Romanó de Orte, Ph.D.

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Summary of Qualifications

- Oceanographer, geochemist, ecotoxicologist, leader, and problem solver with over a decade of experience leading marine and coastal research projects
- Expertise in environmental risk assessments, climate change impacts on marine ecosystems, offshore carbon capture and storage, aquaculture, coastal pollutants, including plastics and oil spills
- Fluent in English, Portuguese, Spanish
- 13 years of marine ecosystem experience in South America, Europe, North America and Australia

Education

PhD in Water and Coastal Management, University of Cádiz, Spain	2009-2013
MSC in Water and Coastal Management, University of Cádiz, Spain	2007-2009
BS in Oceanography, Federal University of Paraná, Brazil	2002-2007

Relevant Experience

Postdoctoral Research Scientist

Carnegie Institution for Science, Stanford, CA

Aug 2017-present

- Directed a joint US-Brazilian research team to explore coral adaptations to extreme environments in northeast Brazil
- Designed and executed field experiments on the Great Barrier Reef using state-of-the-art technology to quantify the impacts of coral reef degradation on ecosystem goods and services
- Identified the combined effects of microplastic pollution and global warming on sea anemones

Postdoctoral Research Scientist

Federal University of São Paulo, Santos, Brazil

Mar 2014-Aug 2017

- Supervised 11 PhD, Masters and undergraduate students
- Managed projects and developed protocols to evaluate the risks to marine invertebrates of carbon capture and storage activities in the Santos Basin, Brazil
- Collaborated in a large environmental risk assessment of dredged sediments in the major Latin American seaport located in Santos, Brazil
- Developed science communication products for general audience and participated in science communication workshops

Doctoral Candidate in Water and Coastal Management

University of Cádiz, Spain

Sep 2009-Dec 2013

- Invented a CO₂ leakage simulator to evaluate the risks of CO₂ leakage from carbon capture and storage activities (Spanish Patent 201200753, 13/07/2012)
- Designed and executed laboratory experiments and geochemical modeling simulations to evaluate the toxic effects of metal pollution and ocean acidification on marine invertebrates

- Collaborated on environmental impact assessments of industrial discharges into the São Francisco River, Brazil

Master Research Scientist

University of Santiago de Compostela, Spain and University of Cádiz, Spain Sep 2007-Sep 2009

- Contributed to a multi-stakeholder evaluation of land-based fish farming impacts on coastal resources along the northwest coast of Spain, including developing new laboratory methods

Research Assistant

Marine Ecotoxicology Laboratory, Federal University of Paraná, Brazil Jan 2006-Dec 2006

- Analyzed the environmental impacts of an oil spill on marine life and sediments in Paranaguá Harbor, Brazil

Selected Leadership and Service

- Co-president of the Carnegie Institution Postdoctoral Association (CIPA)
- Master's and Ph.D. thesis committee member
- Peer reviewer for 13 scientific journals
- Author of 24 conference presentations at international meetings

Peer-reviewed Publications

As of May 2021, published 25 collaborative peer-reviewed studies in leading international journals, focusing on topics of climate change impacts on marine ecosystems, marine pollution and metal speciation. For a complete list of publications, please see: <https://www.manoeladeorte.com/publications>

Skills

Research: Various quantitative and qualitative analysis skills, science writing for various audiences

Computing: Microsoft Office, R, Mendeley, PHREEQC, Github, Inkscape

Languages: Portuguese (native), English (fluent), Spanish (fluent)