

Manoela Romanó de Orte, Ph.D.

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Summary of Qualifications

- Marine scientist, leader, and problem solver with over a decade of experience leading marine and coastal research projects
- Expertise in climate change impacts on marine systems, environmental risk assessments, carbon capture and storage, aquaculture, coastal pollutants, including plastics and oil spills
- Secured >\$300k in research grants to support master's, doctoral, and postdoctoral work
- Fluent in English, Portuguese, Spanish
- 12+ 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 to evaluate the environmental impacts 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 March 2020, published 24 collaborative peer-reviewed studies in leading international journals, focusing on topics of climate change impacts on marine ecosystems, marine pollution and aquaculture. 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, Paperpile, Github, Inkscape

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