



coasts | climate | oceans



### CONTACT ME AT

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- www.c2o.net.au



### EXPERTISE

- Scientific & report writing
- Data analysis
- Spatial analysis & mapping
- Statistical modelling
- Hydrology
- Remote sensing
- Fieldwork: surveys & experiments in remote locations
- Programming
- Systematic literature review

### QUALIFICATIONS

- PhD in Aquatic productivity and connectivity in a tropical river floodplain**  
Griffith University
- MSc in Hydrology and Water Quality Modelling**  
Federal University of Rio de Janeiro, Brazil
- BSc in Civil Engineering**  
Federal University of Rio de Janeiro, Brazil

# DR BIANCA MOLINARI

## AFFILIATED SCIENTIST

### CAREER GOALS & RESEARCH INTERESTS

I am an environmental scientist whose expertise spans a range of topics. I worked for five years as a water resources engineer where my main tasks included hydrological and water quality modelling. Coming to Australia, my focus translated into ecological modelling, including statistical and spatial modelling. I am driven to conduct meaningful research to facilitate a sustainable future.



**5**  
peer-reviewed  
publications



**11**  
citations

**h-index**

**2**



**24.2**

### CURRENT PROJECTS

#### Scientific Consensus Statement for Water Quality for the Great Barrier Reef

Australian Government Department of Agriculture, Water & Environment | Oct 2021 – present

- General project support
- Spatial modelling support for the spatial management prioritisation of water quality risk

#### Arafura & Timor Seas Ecosystems Action Program

United Nations Development Program (UNDP) | Oct 2021 – present

- Produce graphical products and support the production of scientific articles and reports

#### Wetlands evidence synthesis – the role of wetlands in nutrient removal in catchments of the Great Barrier Reef

Great Barrier Reef Foundation | January 2022 – present

- Systematic literature review



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### COUNTRY EXPERIENCE

- Australia
- Brazil

### LANGUAGES



English (proficient)



Portuguese (proficient, native)



Spanish (conversation)



French (conversation)

# DR BIANCA MOLINARI

## AFFILIATED SCIENTIST

### RELEVANT EXPERIENCE | PAST PROJECTS

#### Research Assistant

Griffith University | April 2021 – September 2021

- Co-writing of the final report of the project 1.3.1 Critical flow needs for the Mitchell River to the Australian Federal Government and a National Environmental Science Program (NESP).

#### Marine Biologist

Quicksilver Cruises | July 2021 – present

- Delivering interpretation of marine life by giving talks and conducting guided snorkelling tours.

#### Water Resources Engineer

Federal University of Rio de Janeiro | September 2012 – April 2017

- Hydrology and water quality modelling.

### SELECTED PUBLICATIONS

- Molinari et al. (2021) Impact of Water Resource Development on Connectivity and Primary Productivity Across a Tropical River Floodplain, *Journal of Applied Ecology* | [Link](#)
- Molinari et al. (2021) Assessing Spatial Variation in Algal Productivity in a Tropical River Floodplain Using Satellite Remote Sensing. *Remote Sensing* | [Link](#)
- Molinari et al. (2021) Relationships Between Algal Primary Productivity and Environmental Variables in Tropical Floodplain Wetlands, *Inland Waters* | [Link](#)
- Stewart-Koster et al. (2021) Critical Water Needs to Sustain Freshwater Ecosystems and Aquatic Biodiversity in Queensland's Mitchell River. Griffith University, Brisbane | [Link](#)