

Juliana Ramos

OCEANOGRAPHER, MASTER OF SCIENCE IN GEOLOGICAL
OCEANOGRAPHY



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julianareros

PROFESSIONAL EXPERIENCE

Marine Pollution Modeler - Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC)

October 2024 - Present

Modeling oil and plastic drift using the MEDSLIK-II Lagrangian model, with a focus on transport and dispersion under varying ocean and weather conditions. Contributing to model improvement and the development of WITOIL, an interface for non-expert users. Support includes data preparation, validation, and reporting for environmental monitoring and emergency response.

Geosciences Analyst - Tetra Tech

October 2023 - October 2024

Conducting oil spill modeling for probabilistic and deterministic scenarios, as well as numerical modeling of currents, waves, morphology, and effluents. Responsible for monitoring beach profiles. Preparation of technical reports.

Junior Geosciences Analyst - Tetra Tech

November 2021 - October 2023

Conducting numerical modeling of currents, waves, morphology, and effluents. Responsible for monitoring beach profiles. Preparation of technical reports.

Master's student in Oceanography - Coastal Dynamics Laboratory of the Oceanographic Institute at the University of São Paulo

November 2021 - October 2023

Wave modeling of Mococa Beach (Caraguatatuba, SP) using Delft3D. Variation in beach sediment volume. Identification of most probable scenarios for overwash events. Assessment of beach morphological variability over the months

EDUCATION

Master of Business Administration in Data Science
2023-2024
Institute of Mathematical and Computer Sciences at the
University of São Paulo

Master's degree in Geological Oceanography
2020-2023
Institute of Oceanography at the University of São Paulo

Bachelor's degree in Oceanography
2015-2019
Institute of Oceanography at the University of São Paulo

LANGUAGES

English Advanced level	Portuguese Native	Spanish Intermediate level	Italian Beginner level
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TECHNICAL SKILLS

Microsoft Office	CoastSat
OSCAR	QGIS
OILMAP	CORMIX
MEDSLIK-II	Global Mapper
Delft3D	Agisoft Metashape
Python/MATLAB	

ADDITIONAL INFORMATION

Exchange Program at the School of Earth, Atmospheric and Life Sciences at the University of Wollongong - Australia
June 2019 - August 2019
Flight with UAV (Unmanned Aerial Vehicle) coupled with RTK (Real-Time Kinematic). Image processing obtained by UAV in Agisoft Photoscan software. Creation of Digital Terrain Models with ArcGIS

Certification in Drone Mapping
October 2021
Experience in RPAS (Remotely Piloted Aircraft System) operation and image processing.

Advanced Scuba Diving Certification - NAUI (National Association of Underwater Instructors)
July 2017
Advanced scuba diving experience up to 40m.