

# Gloria Mariño Briceño

## M S C. MARINE ENVIRONMENTAL RESOURCES

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Enthusiastic biologist focused on **environmental sciences** and **technology**. Creative and with high **analytic capacities**, proficient in data analysis and visualization, grant searching, experimental design, and logistics throughout various research and professional endeavours. Thrives in **multicultural environments** continuously honing adaptability and problem-solving skills. Aspiring to utilize ecological and technological knowledge to address **socio-ecological challenges** through **data-driven** approach particularly in the realms of **sustainable development** and **climate change**.

## EDUCATION

### Master in Marine Environmental Resources

2020- 2022 Erasmus Mundus Joint Master Degree: Bordeaux Univeristy, Basque Country University, Liege University

- Awarded the Prof Michael B. Collins for Best Master Thesis Presentation (2022): "Life-history and fishing aspects of deep-sea silver scabbardfish *Lepidopus caudatus* in the Azores"
- Recipient of Erasmus Mundus Scholarship

### Bachelor of Sciences, Minor in Biology

2012-2020 Simón Bolívar University

- Final grade: 4.17/5
- Undergraduate thesis with distinction

## PROFESSIONAL EXPERIENCE

### Environmental Consultant

San Diego, California, USA (Remote)

Waitt Institute

November 2022 - April 2023

- Analyzed underwater images from remote islands of Tonga and Samoa as part of an international research group to generate data for the decision-making processes concerning their Marine Protected Areas.

### Traineeship fisheries management

Wallonia, Belgium- Azores, Portugal

Eurodysey - Okeanos

July 2022 - December 2022

- Communicated research findings of the Azores fisheries research group through posters presentations and oral sessions at international conferences.
- Authored a scientific article presenting results from ecological modeling on the distribution of a deep-sea exploited species.

### Research assistant

Eleuthera, Bahamas

Cape Eleuthera Institute

January 2020 - September 2020

- Assisted in coral nursery maintenance and coral microfragmentation experiments.
- Supported the aquaponics team by seeding and watering the plants, monitoring fish, and maintaining the bacterias tanks to ensure the productivity and health of the living elements in the system.

### Research assistant

Caracas, Venezuela

Experimental Ecology Laboratory (LEE), Simón Bolívar University

September 2014 - September 2019

- Coordinated fieldtrips for the Coral Reef in Venezuela Rapid Ocean Grant project along the Venezuelan Caribbean
- Managed and organized data for the project, developing protocols for the collection, organization, and safeguarding of photographic, video, and metadata information.
- Successfully planned a crowdfunding campaign to secure resources for presenting research at the Association of Marine Laboratories of the Caribbean (ALMC) 39th conference in Punta Cana 2019.
- Conducted marine biodiversity assessments and environmental impact evaluations in the Caribbean, Atlantic Ocean, and Indo-Pacific Ocean, collaborating with organizations such as the Global Coral Reef Monitoring Network, Waitt Institute, INVEMAR, and the oil company PDVSA. Employed various techniques, including image analysis of benthos, stomach content analysis, and fouling experiments.

### Teaching assistant

Plant Physiology Laboratory, Simón Bolívar University

Caracas, Venezuela

September 2018- December 2018

- Assisted in preparing physiology experiments.
- Supervised and guided biology students through the plant physiological experiments.

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## RESEARCH EXPERIENCE

### Pescaz Project

2022

Azores Sustainable Fisheries Group, Eurodyssey

- Calculated fisheries parameters of commercial demersal fish species in the Azores, including mortality, selectivity, and Linf, for use in fisheries models (YPR).

### Life-history and fishing aspects of deep-sea silver scabbardfish *Lepidopus caudatus* in the Azores

2022

Master thesis project, under the supervision of Dr. Régis Santos

- Utilized statistical models (GLM, GAM, Welch) to determine the distribution and ecological characteristics of the deep-sea commercial fish, the silver scabbardfish, in the Azores Archipelago.

### Lack of recovery of coral cover in Morrocoy (Venezuela) An application of 3D models to understand key processes

Undergraduate thesis project. Supervisor Dr. Aldo Cróquer, Simon Bolívar University

2017-2019

- Directed the field sampling through logistics, planning of the underwater surveys and data storage.
- Conducted statistics analysis and data visualization (ANOSIM, PCA, Distlm, logistic model) to assess coral variation in space and time.
- Generated 3D models to track coral growth, survivorship and the evolution of benthic cover on time.
- Secured a grant to conduct the fieldwork for this project and others.

### Coral Reef in Venezuela Rapid Ocean Conservation grant, Vavau Ocean Initiative, Blue Halo Barbuda

Waitt Institute, LEE

2017-2019

- Actively participated in field samplings across various reefs to collect biodiversity data.
- Conducted benthic species identification with the aim of reef conservation in locations including Barbuda, Venezuela, Jamaica, the Philippines, and Tonga.
- Orchestrated multiple field trips to Venezuelan coastal reefs for biodiversity sampling, engaging in effective communication with community stakeholders and meticulous planning

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## PUBLICATIONS

### First author

- [Life History and Fishing Aspects of the Deep-Sea Silver Scabbardfish \*Lepidopus caudatus\* in the Azores.](#) (2022)

### Coauthor

- [Chapter 12: Status of Coral Reefs in the World 2020](#) (2022)
- [A photographic data set of reef and coral communities across Venezuela.](#) (2021)
- [The use of pseudo-multivariate standard error to improve the sampling design of coral monitoring programs.](#) (2020)
- [On the importance of spatial scales on beta diversity of coral assemblages: a study from Venezuelan coral reefs.](#) (2020).

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## GRANTS & SCHOLARSHIPS

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|--|-----------------------|
| • Erasmus Mundus Scholarsip Award  | 49 000 EUR, 2020-2022 |
| • Association of Marine Laboratories of the Caribbean (ALMC) 39th Student Travel Grant | 280 USD, 2019         |
| • Clear Reef Foundation Social Grant   | 671 USD, 2018         |
| • Bermuda Institute of Ocean Sciences Summer Course Scholarship                        | 4 500 USD, 2017       |

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## CONFERENCES

- **MER Community Summit** Bilbao, Spain, 2022  
Poster: "Spatial Distribution, life-history and fishing aspects of deep-sea silver scabbardfish *Lepidopus caudatus* in the Azores"
- **ASC ICES scientific annual meeting for the International Council for the Exploration of the Seas** Dublin, Ireland, 2022  
Poster: Spatial distribution of the Silver scabbardfish *Lepidopus caudatus* in the Azores  
Oral presentation: Size structure, growth and mortality rate of the deep-sea silver scabbardfish *Lepidopus caudatus* in the Azores.
- **39th Association of Marine Laboratories of the Caribbean (ALMC) meeting** Punta Cana, Dominican Republic, 2019  
Poster: Lack of recovery of live coral cover in Morrocoy (Venezuela): An application of 3D models to understand key processes
- **XII Ecological Venezuelan Society (SVE)** Caracas, Venezuela, 2019  
Oral presentation: "La historia de playa Mero: uso de modelos tridimensionales para estudiar las dinámicas ecológicas de corales juveniles en un arrecife perturbado."

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## COURSES

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|---|---|
| • Data Science with Python  | DataCamp, online, 2023 - ongoing          |
| • 2nd Summer School RoOT of Ocean Technology Campus Rostock and the University of Rostock | Rostock University, Alemania, 2023        |
| • Methods for Marine Phanerogams studie   | INVEMAR, Santa Marta Colombia, 2019       |
| • II International course on mangroves ecology, management and environmental legislation  | Simon Bolivar University, Venezuela, 2017 |
| • Coral Reef Ecology Summer Course  | BIOS Bermuda, 2017                        |

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## SKILLS

### Computational literacy

- Data analysis: R, Python
- Data visualization: R ggplot2, Python matplotlib
- 3D Modelling: Agisoft, Meshlab, Blender.
- Statistical Analysis: R, Primer, Excel.
- Photography: Photoshop, Lightroom, GIMP
- MS products

### Fieldwork

- Logistics
- Scientific diving
- Benthic identification Caribbean and Indopacific

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## LANGUAGES

- Spanish (Native)
- English (Bilingual)
- Portuguese (Professional working proficiency)
- French (Beginner)
- Music

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## AFFILIATIONS

- International Coral Reef Society (2020)
- Association of Marine Laboratories in the Caribbean - ALMC(2019)
- Venezuelan Underwater Society of Archeology - SEAS (2018)
- Venezuelan Ecological Society- SVE (2015)
- Simon Bolivar Windsurf Club - WISSIB (2015-2016)
- Simon Bolivar Underwater Activities Club - CESUSIBO (2013-2016)