Ricardo González Gil, PhD

rgonzalezgil@gmail.com • Tel: +504 9540-9150 • Websites: GitHub portfolio, Research gate, ORCID, LinkedIn • Twitter (X): @rgonzalezgil

DATA ANALYST AND ECOLOGIST

Over 14 years of experience in data analysis and research in marine ecology and oceanography, fisheries studies, and aquaculture sustainability. Proficient in handling complex databases with diverse environmental parameters across spatiotemporal scales to support decision-making. Expertise in R programming, statistical and mathematical modeling, and data collection, evaluation, and visualization, complemented by strong adaptability to new tools and methodologies. Proven ability to engage with diverse stakeholders—including government agencies, universities, and NGOs—on projects related to small-scale fisheries management, aquaculture research, and environmental conservation throughout Europe, America, and Africa. Strong written and oral communication skills, demonstrated in 13 scientific publications, and in multiple technical reports and congress presentations.

KEY SKILLS AND INTERESTS

Data collection, analysis and visualization | R programming | Statistical and mathematical modeling | Satellite data
Fisheries | Marine Ecology | Aquaculture sustainability | Oceanography | Conservation | Monitoring programs
Project management | Written and oral communication | Online collaborative tools

EMPLOYMENT HISTORY

GOAL – *Tegucigalpa, Honduras*   *July 2023-September 2024*
Blue Economy Coordinator for Latin America and the Caribbean (LAC)

- Led and developed GOAL's Resilient Blue Economy program and strategy in the LAC region, consistent with an ecosystem approach that is supportive of sustainable livelihoods in fisheries and ecotourism.
- Coordinated and participated in the development and submission of 10+ funding proposals and concept notes, ensuring alignment with organizational goals and donor requirements.
- Led the development of an R4S analysis for the artisanal fishery system in Sierra Leone, including in situ data collection and the final report.
- Represented GOAL's Blue Economy program at the Ocean Decade Conference 2024.

Roatan Marine Park, RMP – *Tegucigalpa, Honduras*   *July 2023*
Consultant in marine ecology and data analysis

- Analyzed and visualized a biological and physicochemical dataset of stony coral tissue loss disease (SCTLD) collected around the Caribbean island of Roatán, Honduras.
- The analysis will assist in understanding the impacts of stony coral tissue loss disease (SCTLD) on coral reefs.

Coral Reef Alliance, CORAL (California, USA) – *Tegucigalpa, Honduras*   *April-June 2023*
Consultant in data analysis

- Revised, cleaned and analyzed the dataset (1600 respondents and 50+ questions) of the Water and Sanitation project in Coxen Hole (Roatán island, Honduras).
- Visualized the data using summary graphs for policymakers and other stakeholders.
- The analysis will assist the regional government in implementing a plan for improved sanitation and sewage treatment efficiently.

University of Oviedo (Asturias, Spain) – *Remote*   *August 2022-April 2023*
Fisheries researcher

- Evaluated the stocks of sea bass, octopus, gooseneck barnacle and other species exploited by the Asturian fishers.
- Provided guidance and technical assistance to regional policymakers and other stakeholders from the government to implement the best management strategies.
- Among other results, the evaluation of the octopus was critical to maintaining the MSC certification of the fishery.

Coral Reef Alliance, CORAL (California, USA) – *Tegucigalpa, Honduras*   *May-August 2022*
Consultant in fisheries, marine ecology and data analysis
- Conducted scientific research for [CORAL] focused on a fish stock assessment in the Jeannette Kawas Protected Area and on the Mesoamerican Regional water quality.
- Communicated and guided the [CORAL] team, external partners, and other stakeholders.
- The results generated will support the implementation of regulations to monitor the evaluated fishery and to improve water quality and protect the coral reefs.

Blue Remediation Ltd. (Glasgow, UK) – *Remote*   *September 2021-March 2023*
Consultant in marine ecology and data analysis for aquaculture sustainability
- Analyzed lab and field data collected by [Blue Remediation] to propose bioremediation solutions in coastal Scottish salmon farming.
- Communicated main research findings to the team and donors via progress reports.
- The analysis revealed significant reductions in seafloor organic matter, paving the way for more sustainable aquaculture practices and potential increases in productivity.

University of Strathclyde, Dept. of Mathematics and Statistics – *Glasgow, UK*   *February 2018-January 2020*
Postdoctoral researcher
- Analyzed 20 years of data collected at the [Stonehaven coastal monitoring site] (North Sea) by [Marine Scotland Science].
- Identified and described long-term changes in the coastal spring plankton bloom and their main environmental drivers.
- Coordinated the project by liaising between partners using online collaborative tools and meetings.
- Communicated key study results via scientific publications, oral presentations, and reports. In particular, the [published paper] is the first confirmation of the Disturbance Recovery Hypothesis for a coastal area.

University of Oviedo – *Asturias, Spain*   *June-December 2017*
Fisheries researcher
- Analyzed 17 years of data from a coastal [artisanal octopus fishery]. Explored and visualized data to improve our understanding of octopus biology and fishery dynamics in Asturias.
- Worked collaboratively with stakeholders and policymakers from the government to develop new management tools.
- Compiled an accurate and professional report for use by external evaluators of the fishery, which was essential to maintaining the [MSC certification] of the fishery.

DATA COLLECTION AND FIELDWORK EXPERIENCE

University of Oviedo – *Asturias, Spain*   *2008-2013*

Participation in monitoring programs and oceanographic sampling campaigns onboard research vessels:
- "DOS MARES. Deep sea canyons and slopes in the Mediterranean and Cantabrian Seas: from synchrony in external forcing to natural resources-BIOCANT".
- "RADIALES program. Long-term monitoring of chemical and biological conditions in the Asturian shelf".
- "COSTAS. Characterization and modeling of spatiotemporal patterns of variation in coastal communities in Asturias".

ESGERENA, s.l. – *Asturias, Spain*   *August 2006 & August 2007*

Fieldwork assistance in an endangered species conservation project: "Summer census of capercaillie (*Tetrao urogallus cantabricus*) in the Cantabrian Range".

GIA-León – *León, Spain*   *August 2006*

Volunteer participation as fieldwork assistant in the bird ringing project: "Summer census of alpine birds in the Picos de Europa national park".

EDUCATION

University of Oviedo – *Asturias, Spain*   *September 2010-February 2016*
PhD in Marine Ecology
- Title: "Long-term changes in the planktonic community in the central Cantabrian Sea". Grade: *Magna Cum Laude.*
- 3-month research stay (2012-2013) at the UC Davis Bodega Marine Laboratory, California (USA).

University consortium – *Several European countries*   *September 2008-June 2010*
MSc Erasmus Mundus in Marine Biodiversity and Conservation (IMBRSea; previously EMBC)
Grade: with the Greatest Distinction.

University of Oviedo – *Asturias, Spain*   *September 2003-June 2008*
BSc in Biology
Average grade: 9.41/10.

HONORS AND AWARDS

Outgoing postdoctoral grant Marie Curie – Clarín COFUND 2017   *February 2018-January 2020*
Funding institution: Asturias Government (Spain) through FICYT.

Doctoral scholarship FPU   *July 2009-July 2013*
Funding institution: Ministry of Education, Culture and Sport, Spanish Government.

Student Collaboration Scholarship   *October 2007-June 2008*
Processed and analyzed subtropical plankton samples from the project "CARPOS" at the University of Oviedo.
Funding institution: Ministry of Education, Culture and Sport, Spanish Government.

TEACHING AND TRAINING EXPERIENCE

University of Oviedo (Asturias, Spain) – *Remote*   *April-June 2023*
IMBRSea Professional Practice co-supervisor
- Topic: Characterization of the Mediterranean snakelocks sea anemone (*Anemonia sulcata*) fishery in Asturias.

University of Oviedo – *Asturias, Spain*   *2011 & 2013*
Laboratory and field instructor in the 4th and 5th year of the BSc in Biology
- Subject: "Environmental impact evaluation". Role: Supervision of different projects developed by the students, including training during fieldwork and data analysis.
- Subjects: "Aquatic system ecology" and "Energetic and evolutive ecology". Role: Lectures and laboratory work supervision.

PUBLICATIONS AND CONGRESS PRESENTATIONS

- Published 13 peer-reviewed articles and two book chapters (see personal Research gate or ORCID) in the fields of fisheries, marine ecology, oceanography, microbiology and statistics. In addition, 5+ articles have been submitted for publication or are in preparation.
- Participated in 13 congresses with oral presentations or posters.

OTHER RESEARCH AND ACADEMIC EXPERIENCE

Méndez Analytics – *Remote*   *2023*

Course in Multivariate Analysis and Modeling.

University of Oviedo (Asturias, Spain) – *Asturias, Spain*   *2012*

Advance R course completion.

University of Oviedo (Asturias, Spain) – *Asturias, Spain*   *2010*

Guest lecturer in the MSc "*Experimental Techniques applied to the management and conservation of biological resources*".

Alfred Wegener Institute (AWI) – *Bremerhaven, Germany*   *2009*

1-month laboratory assistance in growth experiments of Antarctic diatoms. Supervisors: Dr. Victor Smetacek and Dr. Philipp Assmy.

Max Planck Institute for Marine Microbiology – *Bremen, Germany*   *2009*

2-montht laboratory assistance. Supervisor: Dr. Heide Schulz-Vogt.

SCIENTIFIC SERVICE, MEMBERSHIPS AND OUTREACH

- Member of the "Aves de Honduras" ornithological society since 2023.
- Mentor and presentation reviewer at the Ocean Science Meeting 2022 (OSM 2022).
- Member since 2021 of Ecos(i)food, a research project to enhance the sustainability of artisanal fisheries in Asturias (Spain).
- Member of the MASTS Marine Climate Change Forum. Organization of an international online workshop (Dec. 2020).
- Volunteer participation in the outreach activity "I'm a scientist, stay at home" to engage with the public (2020).
- Member of the Ocean Observatory of Asturias (Observatorio Marino de Asturias, OMA).
- Member of the American Society of Limnology and Oceanography (ASLO), 2017-2024.
- Peer reviewer for Ocean Science, Journal of Operational Oceanography, and Biogeoscience.

IT SKILLS

- Proficient in R programming, using this software for most data analysis.
- Other software programs: Matlab, SPSS, QGIS, GitLab and GitHub, Ocean Data View, PRIMER, SURFER, Inkscape, GIMP, Photoshop, Microsoft package, and online collaborative tools (including Google Docs and Sheets, Trello, Notion, Microsoft Teams, and Slack).

LANGUAGES

Spanish: *Native.* **English:** *Proficient.* **French:** *Basic.* **German:** *Basic.*

OTHER SKILLS AND INTERESTS

- FEDAS-CMAS B1E scuba diving degree (2012).
- Intermediate level piano degree (1994-2004). Superior conservatory of music Eduardo Martínez Torner, Oviedo, Spain.
- Travel Experience: Extensive travel throughout America, Europe, North Africa, and Asia.