ISRAEL VALLEJO MUÑOZ

MARINE BIOLOGIST | ENVIRONMENTAL & SPATIAL DATA ANALYS

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——————————————————————————————————————	JAL SUMMARY ————————————————————————————————————
	ializing in ecological modeling, GIS, and biodiversity
research. Skilled in R, QGIS, and Google Earth Engir	ne for producing spatial analyses and technical reports
on species distribution and land-use change. Published	d researcher currently offering freelance services and
developing a public portfolio in environmental model	ing and conservation planning.
	etfolios, Profiles ————————————————————————————————————
• Portfolio	
Sk	XILLS —
• Programming & Scripting : R (ggplot2, terra, sf,	• Geospatial Analysis: QGIS, Google Earth Engine
dismo, ENMeval), basic Python	
• Ecological Modeling: MaxEnt, NDVI change	• Statistical Analysis: regression models,
detection, species distribution models (SDMs),	biodiversity indices, temporal trends
home range analysis	
• Tools & Platforms: RStudio, GitHub, Excel	• Report & Data Communication: technical
	writing, scientific visualization, bilingual
	reporting (EN/ES)
Work	History —

Environmental Data Analyst, 01/2025 - Current

(Freelancer) – Remote

- Deliver spatial and ecological data analyses through self-led projects focused on conservation, fisheries, and land use planning.
- Develop end-to-end geospatial reports using R and QGIS to assess forest cover change, species distribution, and marine spatial dynamics.
- Created a public portfolio showcasing high-impact environmental case studies in biodiversity, deforestation, and climate change scenarios.

Biological Data Analyst, 01/2025 - 04/2025

Outlier AI – Remote

- Annotate and curate biological datasets for training AI models in biodiversity, fish physiology, and ecosystem health.
- Provide scientific validation of AI-generated outputs, improving accuracy in marine and terrestrial applications.
- Contributed to advancing biological data understanding in automated systems.

Intern, 02/2024 - 10/2024

Endocrinology Laboratory, Università Degli Studi D – Naples, Italy

- Prepared and analyzed tissue samples from aquaculture and wild fish species for biochemical and histological assessments.
- Conducted spectrophotometric and chromatographic assays of antioxidant profiles.
- Applied advanced histological techniques for reproductive studies.
- Supported research on the physiological health of marine species.

Teaching Assistant, 04/2024 - 09/2024

Università Degli Studi Di Napoli Federico II – Naples, Italy

- Assisted in laboratory sessions and guided student experiments in marine biology and aquaculture.
- Provided feedback and tutoring in both English and Italian.
- Supported evaluation and review of scientific reports and assignments.

Research Assistant, 07/2018 - 08/2018

Shark Research and Conservation Program – Miami, USA

- Captured and tagged sharks including *Carcharhinus leucas* and *Sphyrna mokarran (among other species)* for ecological and physiological research.
- Collected and processed biopsy, blood, and morphometric data.
- Participated in marine field expeditions with Dr. Neil Hammerschlag's team.

Research Assistant, 04/2017 - 01/2018

National Fish Collection – Mexico City, Mexico

• Performed morphometric analysis and skeletal clearing techniques for bony fish and sharks.

EDUCATION

Master of Science: Marine Biology and Aquaculture, 10/2024

Università Degli Studi Di Napoli Federico II - Naples, Italy

• Thesis Statement: Recent Record of Coris julis in Mellah Lagoon: Role of Morphological Studies in a Changing Climate

Bachelor of Science: Biology, 01/2021

Universidad Nacional Autónoma De México - Mexico City, Mexico

• Thesis Statement: Reproductive Aspects of the Deep-water Shark Etmopterus schultzi (Bigelow, Schroeder, Springer, 1953) in the Southern Gulf of Mexico

LANGUAGES —	
Spanish Bilingual or Proficient (C2)	English Advanced (C1)
Italian Upper intermediate (B2)	