FELIPE URRUTIA, M.S.
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PROFESSIONAL SUMMARY

Environmental Scientist with a Master's in Marine Biology and strong experience in **field-based environmental data collection, GIS analysis, and ecological modeling**. Proven ability to analyze large datasets, conduct water quality assessments, and produce **technical reports supporting natural resource management and environmental decision-making**. Experienced working in both field and laboratory environments with a strong foundation in **ArcGIS, R, and environmental monitoring techniques**.

EDUCATION

Texas A&M University – Corpus Christi
M.S., Marine Biology — *December 2024*
Texas A&M University – Corpus Christi
B.S., Biology — *December 2022*
Northeast Lakeview College
A.S., General Sciences — *May 2020*

PROFESSIONAL EXPERIENCE

Graduate Research Assistant – Movement Ecology Lab
Texas A&M University–Corpus Christi | Jan 2023 – Dec 2024

- Conducted **field-based environmental data collection** across Texas estuaries, measuring salinity, temperature, dissolved oxygen, turbidity, and water depth
- Performed **spatial and statistical analysis (ArcGIS Pro, R)** to evaluate habitat suitability and ecosystem health trends
- Developed **Generalized Additive Models (GAMs)** to quantify relationships between environmental variables and species distributions
- Managed and analyzed **large-scale fisheries-independent datasets (TPWD)** for long-term ecological assessments
- Produced **technical reports, figures, and data visualizations** to support environmental interpretation and resource management insights
- Contributed to **coastal habitat assessments** and analysis of freshwater inflow impacts on estuarine ecosystems

Undergraduate Research Assistant – Coastal Ecosystem Processes Lab
Harte Research Institute | Jan 2021 – Dec 2022

- Assisted in **field sampling and laboratory analysis** of coastal water quality and ecosystem processes
- Conducted **water chemistry and biological analyses**, including chlorophyll-a, total suspended solids, and microbial testing
- Supported **data organization, interpretation, and reporting** for ongoing coastal monitoring projects

Undergraduate Research Assistant – CIMA Research Program

University of Texas at San Antonio | Jun 2019 – Aug 2019

- Participated in **environmental and biological research projects**, supporting data collection and analysis
- Collaborated with research teams to assist in **scientific reporting and presentation of findings**

Math Instructor

Mathnasium Learning Center, Converse, TX | Sept 2025 – Present

- Delivered **individualized math instruction** to students ages 7+
- Communicated complex concepts in an **accessible and structured manner**
- Developed strong **client interaction and communication skills**

ENVIRONMENTAL & TECHNICAL SKILLS

- Environmental Field Sampling (water quality, aquatic systems, flow measurement)
- GIS & Spatial Analysis (ArcGIS Pro, QGIS)
- Statistical Modeling (R, GAMs, ecological modeling)
- Environmental Data Analysis & Technical Reporting
- Natural Resource Assessment (coastal & estuarine systems)
- Laboratory Analysis (water chemistry, microbiological testing)

FIELD & LABORATORY EXPERIENCE

Field Equipment & Techniques:

YSI multiparameter probes (pH, salinity, DO, temperature), flow meters, Secchi depth, turbidity measurement, Vandorn samplers, acoustic tagging systems, fisheries sampling (gillnet, longline, rod & reel)

Laboratory Techniques:

Chlorophyll-a analysis, total suspended solids, IDEXX E. coli testing, discrete analyzer, sample digestion, autoclave operation

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ADDITIONAL SKILLS

Field & Technical:

Boat operation (up to 35 ft), power tools, basic welding, carpentry, plumbing, electrical work, aquaculture system setup

Professional Skills:

- Technical communication (scientific & public audiences)
- Ability to work independently and in team environments
- Strong organizational and multitasking abilities
- Experience working in physically demanding field conditions

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SOFTWARE & COMPUTING

- ArcGIS Pro, R / RStudio, Microsoft Excel, Word, PowerPoint (Advanced)
- Python (Working Knowledge)
- GitHub, QGIS

REFERENCES - Available upon request