Emelie M. Foster

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Education

University of Louisiana at Lafayette, Lafayette, LA

2020-Present

Master of Science in Biology

Advisor: James Nelson, Ph.D.

University of Louisiana at Lafayette, Lafayette, LA

2016-2020

Bachelor of Biology with a concentration in Marine Biology, Ecology, and Evolution

GPA: 3.7

Relevant Experience

University of Louisiana at Lafayette, Lafayette, LA.

May 2020- Present

Graduate Research Assistant | Advisor: James Nelson, Ph.D.

- Analyze stable isotope data using Bayesian mixing models and hypervolume niche metrics
- Develop and execute experimental plans regarding changes in trophic interactions amongst offshore species in response to sand mining
- Mentor undergraduate student workers

Louisiana Sea Grant, Baton Rouge, LA.

Fall 2020-Spring 2021

Graduate Research Scholar | Program Director: Danielle Dilullo

• Science communication and community engagement training

Texas A&M University at Galveston, Galveston, TX.

Summer 2019

NSF REU Student | Advisor: Anna Armitage Ph.D.

- Mangrove field work
- Individual and team-based lab work
- Developed and executed experimental plans regarding changes in *Littoraria irrorata*'s feeding preferences in response to mangrove encroachment
- Presented research at the 2019 Texas A&M research symposium and at the 2019 Coastal & Estuarine Research Federation Conference

Louisiana University Marine Consortium, Chauvin, LA

Summer 2018

Student Researcher | Advisors: Brain Roberts, Ph.D., Beth Stauffer, Ph.D., James Nelson, Ph.D.

- Marsh field work
- Conducted short term experiments testing basic ecosystem theory

Relevant Skills

- R
- Collecting nekton samples using trawls, longlines, and box cores
- Image Analysis using ImageJ
- Open Water Diver (PDIC)
- Knowledge of how to safely use basic laboratory tools
- ArcGIS
- Thorough understanding of the scientific method
- Attentive and organized
- Positive and eager attitude
- Data management

Relevant Course Work

•	Marine Ecosystem Ecology	Summer 2018
•	Marine Biology and Estuarine Ecology	Fall 2018
•	Oceanography and Limnology	Spring 2019
•	Invertebrate Zoology	Fall 2019
•	Fish Ecology	Spring 2020
•	Landscape Ecology	Fall 2020
•	Wetland Plants	Fall 2020
•	Statistical Ecology	Spring 2021
•	Spatial Data Analysis and Management	Spring 2021
•	Quantitative Ecology	Fall 2021

Publications

Geoke J.A., Foster E.M., Armitage A.R. (2021) Negative Outcomes of Novel Trophic Interactions Along Mangrove Range Edges. *Oecologia~ In Review*

Foster E.M., James RJ., Doerr J.C., Nelson J.A. (2022) Seasonal shifts in resource use alter niche size, niche overlap, and trophic position in salt marsh consumers. *Journal of Fish Biology*~ *In Review*

Activities and Awards

 Member of Biology Society at University of Louisiana at Lafayette 	2016-18
Elmer's Island beach clean up	2017
Rising TIDES Award	2019
 Texas A&M scientific writing workshop 	2019
 Texas A&M research presentation workshop 	2019
 Texas A&M ALLY for LGBTQ+ workshop 	2019
Implicit Bias workshop at CERF	2019
CERF Participation Award	2021