

# Morgan L. Jarrett

[mjarr012@fiu.edu](mailto:mjarr012@fiu.edu) ~ North Miami Beach, FL

## Education

### **Florida International University**

Doctor of Philosophy - Biological Sciences

**Aug. 2022 - Present**

Current GPA: 3.9

### **Florida Southern College**

Bachelor of Science

**Graduation: May 2022**

Marine Biology & Environmental Studies

GPA: 3.8125

- President's List (4.0 GPA): 2020, 2021, 2022
- Dean's List (3.75 GPA): 2019, 2021

## Teaching Experience

### **FIU Graduate Teaching Assistant**

- Ecology Lab Online – current
  - Instructor: Dr. Alain Duran
- Biology 1 Lab – 1 semester
  - Instructor: Dr. Richard Brinn

### **Florida International University**

Aug. 2022 - Present

### **FSC Biology Student Teaching Assistant**

- Biology 1 Lab - 2 semesters
- Biology 2 Lab – 2 semesters
- Marine Microbiology Lab – 1 semester

### **Florida Southern College**

Aug. 2019 – May 2022

## Experience

### **FIU Research Assistant**

- Assisted in the data collection of a previous graduate student and current lab projects

### **Florida International University**

Summer 2022

Advisor: Dr. Mark Butler IV

### **Ocean Acidification Lab Technician**

- Performed carbonate chemistry analysis using an Apollo automated titrator
- Assisted in construction of an ocean acidification system

### **Florida Southern College**

Summer 2021

Advisor: Dr. Philip Gravinese

## Research

### Current:

- An empirical test of the gill-oxygen limitation theory (GOLT) as applied to decapod crustaceans under climate change

**Florida International University**

Advisor: Dr. Mark Butler IV

### Previous:

- Acidification reduces the foraging activity of the Florida stone crab

**Florida Southern College**

Advisors: Dr. Philip Gravinese & Dr. Gabriel Langford

- Do pH variable habitats provide refuge for the Florida Stone Crab (*Menippe mercenaria*) from ocean acidification

**Florida Southern College**

Advisor: Dr. Philip Gravinese

Funding: FSC Student-Faculty

Collaborative Research Grant

## **Funding:**

- International Women’s Fishing Association Scholarship Trust **Amount:** \$2,000
- FIU Crest-CACHe Research Materials
- FSC Student-Faculty Collaborative Research Grant **Amount:** \$4,423

## **Publications:**

1. **Jarrett, M.L.**, Smith, A.L., Langford, G.J., and Gravinese, P.M 2023. Acidification reduces the foraging activity of the Florida stone crab. In Review in *Journal Experimental Marine Biology and Ecology*.
2. Gravinese, P.M., **Jarrett, M.L.**, Smith, A.L., Potts, C., Faraci, G., and Trevillian, A. Do pH variable habitats provide refuge for the Florida stone crab from ocean acidification. In preparation for *Journal Experimental Marine Biology and Ecology*.

## **Presentations at Scientific Meetings:**

- Mark Butler, **Morgan Jarrett**, and Daniel Pauly. “The Gill-Oxygen Limitation Theory (GOLT): A unifying theory for the ecology of lobsters?” 12<sup>th</sup> International Lobster Conference and Workshop, Freemantle, Western Australia. October 2023. Oral Presentation.
- **Jarrett, M.L.**, Smith, A.L., Langford, G.J., and Gravinese, P.M. Acidification reduces the foraging activity of the Florida Stone Crab (*Menippe mercenaria*). The 2023 Benthic Ecology Meeting. Miami, FL. April 2023. Poster Presentation.
  - Best Student Poster
- **Jarrett, M.L.**, & Gravinese, P.M. Do pH variable habitats provide refuge for the Florida stone crab from ocean acidification? [Bay Area Scientific Information Symposium](#). St. Petersburg, FL. March 2022. Oral Presentation.

## **Mentoring:**

### NSF REU Near-Peer Mentoring at FIU

- Emily Parrish, undergraduate at University of South Alabama. Summer 2023. Lower dissolved oxygen (DO) levels alters behavior of Caribbean King Crab (*Spinosissimus maguimithrax*).
- Ryan Bennett, undergraduate at University of Alabama. Summer 2023. Determining the impact of dissolved oxygen (DO) level on the consumption rates of the Caribbean King Crab (*Spinosissimus maguimithrax*).

## **Leadership:**

### **FSC Marine Biology Honor Society**

#### **PR and Marketing Chair**

- Created fundraisers and designed social media posts

### **FSC Equestrian Team**

#### **Team Captain, Co-Captain, Secretary**

- Planned team events and supervised meet days

## **Awards & Honors**

FSC Post-Baccalaureate Research Award - \$500

## **Affiliations and Memberships**

NSF CREST-CACHe FIU affiliate

## **Certifications**

### **Diving:**

IANTD Basic Open Water  
AAUS Diver

### **Other:**

DAN Basic Life Support	Expires Aug. 2024
DAN Oxygen First Aid	Aug. 2024

## **Skills:**

### **Software:**

ImageJ software  
CO<sub>2</sub>Sys software  
Neptune Apex Systems software  
Microsoft Excel  
Sufficient in RStudio

### **Lab/Field:**

Automated Titration (Apollo SciTech Systems)  
Microscopy  
Temperature and pH sampling