

## **Caraline Miller (she/her/hers)**

caraline.miller@uga.edu ◦ millercaraline@gmail.com  
coast.engr.uga.edu/team/

### **Education**

**M.S. Environmental Engineering- University of Georgia** in progress; December 2023

Thesis: *Effects of Tropical Cyclone-Driven Storm Surges on Dauphin Island, AL*

Emphasis Area: Sustainable Coastal Engineering; 3.74 GPA

**B.S. Environmental Biology- Tulane University** May 2021

Honors Program Senior Scholar Award in Environmental Biology; 3.83 GPA

### **Research & Publications**

**Miller, C., Bilskie, M.V., Passeri, D.L. (2023),** “*Effects of Tropical Cyclone-Driven Storm Surges on Barrier Islands: A Numerical Investigation,*” American Meteorological Society (AMS) Annual Meeting, Denver, CO. 10 January.

Student Award, 21st Symposium on the Coastal Environment

#### **Graduate Research Assistant**

Contributor to ESLR-EMBIR: Integrated Modeling of the Effects of Sea Level Rise Across Estuaries, Marshes, and Barrier Islands in Mississippi Sound

**Undergraduate Honors Thesis- Coastal Ecology** (August 2020-May 2021)

*Biotic & Abiotic Factors Mediating Coastal Elevation*; studied relationships between nutrient abundance, marsh plant biomass allocation, and land elevation.

**Wetland Ecology Research** (September 2019-May 2020) (Independent Study)

Investigated the importance of epigenetics for adapting to saline conditions in *S. alterniflora*. Included field work and literature review components.

Whitehurst, Amanda S., **Miller, Caraline R. (2019),** “*Evaluation of the Utility of Citizen Science in Earth Science Research,*” NASA internal document.

**Miller, C., Nulud, E. and Mead, J. (2017)** Sequence of Peroxisomal membrane protein EST clone 81CM1.16. Unpublished NCBI DNA Sequence.

Waksman Student Scholars Program

### **Relevant Work Experience**

**Graduate Research Assistantship** University of Georgia, 2022-23

Thesis: *Effects of Tropical Cyclone-Driven Storm Surges on Dauphin Island, AL*

**Aquatic Invasive Species Technician** Nebraska Game & Parks Commission, 2021

Mitigate the spread of invasive species by conducting boat inspections, vegetation surveys, water samples, and public outreach & education

**NASA Science Missions Directorate Intern** NASA Headquarters, 2019

Earth Science Division; reviewed the Citizen Science for Earth Systems Program

**Data Collection Intern** Arlington Echo Outdoor Education Center, 2017

Collected and analyzed environmental data, worked with ArcGIS mapping program, create an ArcGIS StoryMap to be used in elementary school classrooms

## **Conferences & Presentations**

**Georgia Water Resources Conference** March 2023

**American Meteorology Society Annual Meeting** January 2023

Oral Presentation, “*Effects of Tropical Cyclone-Driven Storm Surges on Barrier Islands: A Numerical Investigation*”

Student Award, 21st Symposium on the Coastal Environment Recipient

## **Future Conferences:**

**International Workshop on Waves, Storm Surges, & Coastal Hazards** October 2023

Oral Presentation TBD

**ADCIRC Users Group Meeting** June 2023

Oral Presentation TBD

**Georgia Climate Conference** May 2023

## **Software Workshops & Training**

**High Performance Computing & Linux Basics Training** January 2023

ADCIRC Self-taught with assistance from Dr. Matt Bilskie

**HEC-RAS & HEC-HMS** April 2022; ENVE 6450 Engineering Hydrology & Hydraulics

**SMS (Aquaveo)** April 2022; ENGR 6990 Adv. Topics- Coastal & Estuarine Processes

**MATLAB** Self-taught with assistance from Dr. Matt Bilskie & peers

**Linux Training for Linux-Inexperienced Cluster New Users** February 2022

**R Studio** Self-taught with assistance from Carolyn Schroeder, EBIO 3045