

Braddock Rhodenhiser

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EDUCATION

East Carolina University, Greenville, NC

Bachelor of Science *Magna Cum Laude*, Biology; GPA: 3.83, Dean's List all semesters, Chancellor's list Spring 2023 and 2024, Honors in Biology 2025

Relevant Coursework: Genetics, Ecology, Scientific Writing, Biology I and II Laboratory, Cell and Developmental Biology, Organic Chemistry I and II, Evolution, Physiology, Costa Rica Biology Intensives, Advanced Developmental Biology, Conservation Biology, Honors in Biology

HONORS AND GRANTS

- Honors in Biology (2025)
- Honors College: Centennial Fellows (2021-2025)
- Nominated for the Robert H. Wright Leadership Award (2025)
- ECU Grant (2024-2025)
- North Carolina Scholarship (2023-2024)
- The Harvey Sharp Wooten Study Abroad Scholarship (2023)
- Department of Biology Scholarship (2023)
- UNC Grant (2021-2022)

PRESENTATIONS

1. *Evaluating the impacts of black gill disease on hepatopancreas size in penaeid shrimp*, Greenville, NC, April 2025. Defended my thesis in front of my committee about identifying if black gill disease (BGD) impacts the size of hepatopancreas by inducing immunological stress for shrimp populations in NC.
2. *Evaluating the impacts of black gill disease on hepatopancreas size in penaeid shrimp*, Greenville, NC, March 2025. The objective for this project was to identify if black gill disease (BGD) infected shrimp from multiple populations in North Carolina have a smaller HSI compared to uninfected shrimp (poster).
3. *Diving into the Realm of STEM and Politics*, Greenville, NC, April 2022. Final presentation for our idea of creating a Honors College seminar for STEM and Politics. Diving into the Realm of STEM and Politics is a semester-long seminar that was implemented in the spring of 2023 (poster).

4. *STEM and Politics*, Greenville, NC, April 3, 2023. Final presentation during Research and Creative Achievement for our Signature Honors Project about the creation and implementation of our Honors Seminar, “STEM and Politics.” Our next steps include creating COAD course materials for incoming freshmen on how STEM and Politics are intertwined (Podium presentation).
5. *STEM and Politics*, Greenville, NC, April 4, 2023. Final presentation during Capture 180 Challenge for our Signature Honors Project about implementing our Honors Seminar and focusing on how to create COAD course materials to prepare incoming freshmen on the importance of politics (Podium presentation).

EXPERIENCE/SERVICE

NERR System-Wide Monitoring Program Research Technician, North Inlet – Winyah Bay National Estuarine Research Reserve University of South Carolina Baruch Marine Field Laboratory

SWMP Research Technician, May 2025-Present

Research Assistant at the Belle W. Baruch Institute for Marine and Coastal Sciences within the College of Arts and Sciences for the National Estuarine Research Reserve System (NERRS) and being part of the System Wide Monitoring Project (SWMP). Perform maintenance, deployment/retrieval, and calibration of sondes. Perform upkeep and services to the MET station. QA/QC SWMP data collected from sondes. Provide assistance with other research projects such as intertidal creek seining, Real Time Kinematic (RTK) deployment, water quality assessments, and ISCO deployment/retrieval and filtering the water samples.

Coastal Carolina University Shark Education, Research, and Conservation Lab

Volunteer, June 2025

Volunteered with Dr. Dan Abel with Coastal Carolina University on a shark research cruise. We caught, measured, tagged, and took tissue samples from various sharks and red drum. Longlining in Winyah Bay to catch sharks to tag and release them. This project furthers our understanding of the ecology and physiology of sharks in the Winyah Bay estuary.

Blakeslee Marine Conservation Lab

Member, Intern, 2023-2025

Worked in a lab setting to help graduate students dissecting, processing, and entering data. Primarily worked with penaeid shrimp and completed a Honors Biology Thesis on my project “Evaluating the impacts of black gill disease on hepatopancreas size in penaeid shrimp.” I wrote my honors in biology thesis and performed statistical analyses using R Studio. Conducted

fieldwork in several different locations in North Carolina. Fieldwork performed with the lab is deploying crab condos, seining, dip netting, seagrass surveys, and oyster blocks. Helped perform genetic analysis and PCR. Went to weekly lab meetings to discuss achievements of that week and upcoming goals.

North Inlet-Winyah Bay NERR Intern

Intern, Summer of 2024

Worked in field and lab settings at the Baruch Marine Field Lab helping dissecting fish, processing field samples, entering data, and performing various sampling methods. Sampling included pore water, rainwater, intertidal creek seining, blue crabs, marsh crabs, and larval fish. Helped with the System Wide Monitoring Program (SWMP) where we deployed/retrieved sondes and performed calibrations. Also we performed maintenance on the sondes and sensors.

Costa Rica Biology Intensives: Study Abroad Program

Member, March 2023

The biology department created a study abroad program in Costa Rica to allow students to perform field work and observational data of a variety of species. The species of interest were birds in the rain forest and fish in the coral reef. The primary focus for birds was gathering observational and acoustic data to identify the species of birds in the rainforest. The primary goal for fish was observational data and identifying the species while snorkeling different coral reef sites.

Humane Society of Eastern North Carolina

Volunteer, 2023-2025

Volunteered to walk dogs and take them out for a day. Helped play with them, exercise with them, and to socialize with others. Also helped with the cats to better socialize them as well. Volunteered for a study break for students and they got to pet and play with the dogs on campus.

Honors College: Signature Honors Project Group

Secretary, Member, 2021- 2023

Record meeting notes and correspond with others for future meetings. Have group discussions for our Signature Honors Project. Created a semester long Honors Seminar for Spring 2023.

MEMBERSHIP

Club Scuba Diving (2023-2025)

Club Cross Country (2022-2023)

Intramural Soccer (2022-Present)

Alpha Gamma Delta (2022–2025)

Honors College (2021-2025)

CERTIFICATIONS

Red Cross Training: CPR and Lifeguard Certified (2018-2024)

Scuba Diving Certification (2024-present)