

Alizia Barnes Rhodes

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AREA OF INTEREST

Alizia is interested in developing additional research skills for evaluating challenges and changes that affect coastal environments. She is particularly interested in exploring habitat restoration, conservation, and management of anthropogenically impacted environments. Her current project entails assessing how abiotic factors influence ecological processes in coastal wetlands.

EDUCATION

Texas A&M University at Galveston	Galveston, TX	Marine Biology	M.S., 2021-present
Advisor: Dr. Anna R. Armitage			
Louisiana Tech University	Ruston, LA	Biology	B.S., 2016-2020
Minor: Secondary Education			

RESEARCH EXPERIENCE

Graduate Research Assistant ** **2021-present**

Texas A&M University at Galveston, Galveston, TX

- Analyzing *Phragmites australis* (common reed) fitness and morphology along a salinity gradient in the Anahuac National Wildlife Refuge

Undergraduate Research Assistant ** **2019-2020**

Louisiana Tech University, Ruston, LA

- Investigated how copper barriers can cause behavioral artifacts in experiments with marine snails

Research Experience for Undergraduates (REU) Intern ** **2019**

Louisiana Universities Marine Consortium (LUMCON), Chauvin, LA

- Assessed salt marsh soil denitrification rates following oiling in a large-scale marsh mesocosm experiment

PUBLICATIONS

Barnes AJ, Hill JM (2022) Copper barriers can cause behavioral artifacts in experiments with marine snails. *Mar Ecol Prog Ser* 685:127-136. <https://doi.org/10.3354/meps13959>

Barnes A, Roberts BJ, Schutte CA, Rossi R (2020) Salt Marsh Soil Denitrification Rates Stimulated Following Oiling in a Large-scale Marsh Mesocosm Experiment. In *Ocean Sciences Meeting 2020*. AGU.

PRESENTATIONS, SYMPOSIA, & CONFERENCES

Barnes AJ, Hill JM (2021) Copper barriers can cause behavioral artifacts in experiments with marine snails. In *Estuarine Research Federation (CERF) 2021 Biennial Conference*. [virtual; poster] **

Barnes A, Roberts BJ, Schutte CA, Rossi R (2020) Salt Marsh Soil Denitrification Rates Stimulated Following Oiling in a Large-scale Marsh Mesocosm Experiment. In *Ocean Sciences Meeting 2020*. [San Diego, CA; poster] **

Barnes A, Roberts BJ, Schutte CA, Rossi R (2019) Salt Marsh Soil Denitrification Rates Stimulated Following Oiling in a Large-scale Marsh Mesocosm Experiment. In *LUMCON REU Symposium*. [Chauvin, LA; oral presentation] **

TEACHING EXPERIENCE

- Undergraduate Teaching Associate **** **2020**
Louisiana Tech University, Ruston, LA
- Overhauled undergraduate students in the instruction of essential principles of Ecology (BISC/ENSC 313)
- Teaching Associate **** **2014-2017**
Union Parish School District, Farmerville, LA
- Empowered marginalized and underrepresented groups of students to perform scientific experiments in after-school enrichment programs for grades K-12 in Union Parish public schools

HONORS, GRANTS & AWARDS

- Gulf Estuarine Research Society (GERS) Student Award **** **2021**
● Registration and abstract submission fees of \$170 for the Coastal & Estuarine Research Federation (CERF) 2021 Biennial Conference.
- Association for the Sciences of Limnology and Oceanography (ASLO) Multicultural Program Grant Recipient **** **2020**
● Conference travel expenses
- National Science Foundation REU Grant Recipient **** **2019**
● \$5,000 stipend, room and board, and travel expenses

PROFESSIONAL MEMBERSHIPS

- Coastal and Estuarine Research Federation (CERF) ****
Gulf Estuarine Research Society (GERS) **
Association for the Sciences of Limnology and Oceanography (ASLO) **
Beta Beta Beta Biological Honor Society (TriBeta) **
National Science Teachers Association (NSTA) **
National Society of Black Engineers (NSBE) **
National Society of Leadership and Success (NSLS)

SYNERGISTIC ACTIVITIES

- Galveston Graduate Student Association - Executive Board Member **** **2022-present**
● Guiding students through an academically stimulating program while serving the community and university
- Ocean and Coastal Research Experiences for Undergraduates - REU Mentor **** **2022**
● Supported a REU intern in developing an individual research project, analyzing data, and enhancing scientific research and communication skills through high-impact learning and hands-on training
- NSBE: Mentor & Mentee Program - Mentor **** **2018-2021**
● Helped students excel academically through the intense-fast paced science, technologies, engineering and mathematics curriculum
- NSBE: Career Fair Boot Camp - STEM representative **** **2019-2020**
● Navigated students on successful ways to achieve career goals in science, technology, engineering, and mathematics
- Louisiana Tech Big Event - Volunteer** **2017-2020**
● Helped clear debris from elderly and disabled resident homes

- Regional Autonomous Robotics Circuit - **Robotics Troubleshooter** ** 2017-2020
- Overhauled the troubleshooting service center for an annual robotics programming competition
- NSBE: Community Outreach - **Organizer, Program Representative, and Volunteer** ** 2016-2020
- Propelled marginalized and underrepresented communities to seek higher education
- NSBE: Recycling Drive - **Organizer and Volunteer** 2016-2020
- Initiated a recycling drive at Louisiana Tech University to help alleviate waste and promote sustainability throughout the university and surrounding communities
- Friendship Baptist Church Academic Advancement Program - **Organizer and Volunteer** 2012-2020
- Launched a tutoring program for a local church in a rural area and volunteered to help students excel academically

REFERENCES

Dr. Jennifer Hill, Louisiana Tech University, Assistant Professor
Phone: 318.257.2359, Email: jmhill@latech.edu

Dr. Natalie Clay, Louisiana Tech University, Assistant Professor
Phone: 318.257.3197, Email: nclay@latech.edu

Dr. Brian Roberts, Louisiana Universities Marine Consortium, Associate Director of Science/Associate Professor/REU Program Director
Phone: 985.851.2821, Email: broberts@lumcon.edu