Rachael Glazner

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EDUCATION

Texas A&M University, College Station — **College Station, TX**
Ph.D. in Ecology and Evolutionary Biology — September 2015-Present

Plymouth State University — **Plymouth, NH**
Bachelor of Science in Biology *Completed 4 year degree in 3 years — September 2012-May 2015

University of Limerick — **Limerick, Ireland**
Freshman Abroad Program — September-December 2012

RESEARCH EXPERIENCE

Graduate Research Assistant — September 2015-Present
Member of Dr. Anna Armitage's Coastal and Wetlands Ecology Laboratory.

National Museum of Natural History's Smithsonian Marine Station — **Galveston, TX**
Research Intern — April-October 2018
Research activities assessed the effects of herbivory and nutrient enrichment on seagrass communities. Intern duties included preparing, deploying, and collecting experimental fertilizer, as well as experimental cage maintenance.

Coastal Bend Bays & Estuaries Program — **Port Aransas, TX**
Coastal Bird Program Intern — June 2016
Surveys of coastal birds were conducted in Port Aransas, Texas. Nests of Least Terns, Snowy Plovers, and Wilson's Plovers were identified. The number of eggs and estimated age of each egg was recorded. Additionally, multiple Wilson's Plovers were banded.

New Hampshire Department of Environmental Services — **Concord, NH**
Stream Data Surveyor — May-August 2015
Surveys of stream crossings were conducted across a New Hampshire watershed. This information is to be used to indicate the quality of culverts and bridges located at these crossings.

Stream Insect Composition at the Hubbard Brook Experimental Forest — **Plymouth, NH**
June-September 2014
This project explored how different environmental variables shape the composition of stream insect communities at the Hubbard Brook Experimental Forest. Research included:

- Collection of insects across multiple streams
- Measuring channel width and maximum water depth at each stream location
- Estimating canopy cover
- Recording pH and ranking flow rate of each stream
- Classification of insects, which continued through the fall of 2014

TEACHING EXPERIENCE

Teaching Assistant for Coastal Plant Ecology Lab — **Galveston, TX**

- Teaches students the identification of coastal plants — September-December 2017
- Helps students create their own experiments and observational studies about coastal plants — September-December 2016

Teaching Assistant for Fundamentals of Ecology Lab — **College Station, TX**

- Lectured undergraduate students about the basic concepts of ecology — January-May2016
- Taught students different methods to study vegetation composition and wildlife distribution
- Guided students through the process of writing a scientific report

Plymouth State University Mathematics Department **Plymouth, NH**
Statistics Tutor October 2013-December 2014

- Mentored students in need of help with Statistics and Business Statistics
- Aided students with computer-based as well as written statistics assignments

Student Grading Assistant for Statistics I October 2013-May 2015

- Graded homework assignments for Dr. Paul Wilson's Statistics I class sections

The Educational Farm at Joppa Hill **Bedford, NH**
Summer Camp Counselor June-August 2013

- Educated campers ages 5-12 about various aspects of farm life
- Led discussions about animals and the environment

OTHER WORK EXPERIENCE

Plymouth State University Advancement Office **Plymouth, NH**
Photographer/Videographer April 2013-May 2015
Communicated with faculty, staff, and alumni to encourage university wide participation in Advancement Communications projects and initiatives through photography as well as by filming and editing videos with the Advancement Communications team.

LEADERSHIP EXPERIENCE

Mentor of Research Experience for Undergraduates (REU) Intern June-August 2017

REU is a program funded by the National Science Foundation, which gives undergraduates the opportunity to obtain research experience for a summer. I guided an undergraduate intern through the process of planning and completing a scientific experiment. The experiment investigated the effects of vegetation type on predation success of the blue crab *Callinectes sapidus*.

Ecological Integration Symposium Planning Committee April 2017-April 2018

Ecosystem Science and Management Graduate Student Association (ESSM GSA) **College Station, TX**
Internal Affairs Committee September 2015-May 2016
Helped plan social events for members of the ESSM department.

Seminar Committee
Helped coordinate seminar speakers for a weekly ESSM seminar.

Habitat for Humanity **Plymouth, NH**
Vice President September 2014-May 2015

Education and Advocacy Chairperson October 2013-May 2014

- Raised awareness of the need for affordable housing in New Hampshire.

PUBLIC COMMUNICATION

St. Paul's School Hugh Birkhead Memorial Lecture **Concord, NH**
I was invited and funded by St. Paul's School to fly from Texas to New Hampshire to give a public lecture about the use of drones for science. While at the school, I also talked to engineering, robotics, physics, as well as artificial intelligence classes about using drones for research. November 2017

FINANCIAL AWARDS

TAMUG 2-Year Competitive Graduate Fellowship September 2015-August 2017

Texas A&M Galveston Marine Biology Mini Grant (2018) June 2018

Texas A&M Galveston Marine Biology Mini Grant (2017) June 2017

Texas Sea Grant Grants-In-Aid of Graduate Research Award May 2017

Coastal and Estuarine Research Federation Travel Grant August 2017

Ecology and Evolutionary Biology Research Award August 2016

Summer Undergraduate Research Fellowship June 2014

Plymouth State University Presidential Scholarship September 2012-May 2015

Metlife Foundation Pathways Scholarship September 2012-May 2015

HONORS

Plymouth State University Top 20 Graduating Seniors May 2015

- Every year the Top 20 Graduating Seniors are chosen by a committee of faculty and staff based on the student's involvement with the community and campus, their academic achievement, and their character.

SCIENTIFIC PRESENTATIONS

Glazner, R.M., A.R. Armitage (2018). Do Black Mangrove and Salt Marsh Vegetation Provide Different Prey Refuge Values? Gulf and Estuarine Research Society. Galveston, TX. Poster.

Glazner, R.M., J. Blennau, A.R. Armitage (2018). Effects of Vegetation Type on Blue Crab (*Callinectes sapidus*) Predation Success and Predator Behavior. Ecological Society of America Conference. New Orleans, LA. Oral Presentation.

Glazner, R.M., J. Blennau, A.R. Armitage (2018). Effects of Vegetation Type on Blue Crab (*Callinectes sapidus*) Predation Success and Predator Behavior. Ecological Integration Symposium. College Station, TX. Oral Presentation.

Glazner, R.M., A.R. Armitage (2017). Using an Unmanned Aerial Vehicle to Determine Relative Abundance of Wading Birds in Coastal Wetlands. Coastal and Estuarine Research Federation 24th Biennial Conference. Providence, RI. Oral Presentation.

Glazner, R.M., A.R. Armitage (2017). Using an Unmanned Aerial Vehicle as a Novel Approach to Survey Wading Birds in Coastal Wetland Habitats. Ecological Integration Symposium. College Station, TX. Poster. Awarded 3rd Place for Best Graduate Student Poster Presentation.

Glazner, R.M., K.L. Yurewicz (2015). Abiotic and Biotic Factors Associated with Variation in Stream Insect Abundance at the Hubbard Brook Experimental Forest, NH. Plymouth State University Student Showcase of Excellence. Plymouth, NH. Poster.

Glazner, R.M., K.L. Yurewicz (2014). Abiotic and Biotic Factors Associated with Variation in Stream Insect Abundance at the Hubbard Brook Experimental Forest, NH. 13th Annual Undergraduate Symposium on Sustainability and the Environment. Bridgewater, MA. Poster.

Logsdon, J.D., **R.M. Glazner**, K.J. Collins, C.C. Chabot (2014). The Effects of Dopamine and Octopamine on Locomotor Behavior in the American Horseshoe Crab, *Limulus polyphemus*. Plymouth State University Student Showcase of Excellence. Plymouth, NH. Poster.