

# Jennifer Urmston

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## PROFILE

Self-motivated and enthusiastic about marine and environmental conservation and policy. Independent, but also a team player, looking to work with adaptable, equally motivated researchers. A wealth of outdoor experience has prepared me for all fieldwork conditions. Particular experience with experimental design and data analysis.

## EDUCATION

**Bachelor of Science, Marine and Environmental Biology and Policy** May 2017  
Monmouth University, West Long Branch, NJ Minor: Statistics **3.58 GPA**

## RESEARCH EXPERIENCE

**Research Assistant, Dendrochronology**, Monmouth University, West Long Branch, NJ Fall 2016-Spring 2017  
Designed and conducted original experiment on the influences of weather and climate on tree growth in maritime forests.

**Research Assistant, Summer Research Program**, Monmouth University, West Long Branch, NJ Summer 2016  
Analyzed data as a statistical consultant in collaboration with a client researching fish tagging techniques on Atlantic sturgeon.

**Research Assistant, Statistical Consulting**, Monmouth University, West Long Branch, NJ Spring 2016  
Designed experiment and sample statistical analysis for a client's potential research on mangroves in the Bahamas.

**Endangered Species Intern, NJ Division of Fish and Wildlife**, Monmouth County, NJ Summer 2015  
Interned with NJ Fish & Wildlife as a shorebird monitor; conducted daily surveys along the Jersey Shore to monitor endangered nesting shorebird populations; analyzed population size and habitat use in comparison to past years.

**Research Assistant, Tropical Island Ecology**, Cape Eleuthera Institute, Eleuthera, Bahamas Winter 2015  
Collaborated with conservation scientists studying shark mortality, piping plover migrations, and queen conch.

## OTHER PROFESSIONAL EXPERIENCE

**Outdoor Educator**, Green Chimneys – Clearpool Education Center, Carmel, NY Fall 2017-present  
Facilitated nature-based programming for school groups on field trips including forest ecology, watershed science, geology, astronomy, and teambuilding activities.

**Field Guide, NJ Sea Grant Consortium, Sandy Hook, NJ** Summer 2016  
Facilitated marine science programming for K-12 school groups. Taught the "Wonders of Water" program to girl-scout groups, providing young girls with a hands-on learning experience about the importance of the world's water supply.

**Teaching Assistant**, Monmouth University Biology Department, West Long Branch, NJ Spring 2016  
Assisted a Botany lab course, taught occasional lectures, maintained campus greenhouse.

**Peer Mentor, School of Science**, Monmouth University, West Long Branch, NJ 2015-Spring 2017  
Advised freshman and transfer science students, organized events for the School of Science, and held weekly office hours.

## PRESENTATIONS

**Ecological Society of America, Mid-Atlantic Chapter, 2017 Annual Conference** (Poster Presentation) 2017  
Urmston, J., Daneshgar, P., and Bastian, R. The long-term and short-term effects of weather and climate variables on the growth of *Pinus rigida* in New Jersey maritime forests.

**Monmouth University Spring Research Symposium** (Poster Presentation) 2017  
Urmston, J., Daneshgar, P., and Bastian, R. The long-term and short-term effects of weather and climate variables on the growth of *Pinus rigida* in New Jersey maritime forests

**Monmouth University Summer Research Symposium** (Poster Presentation) 2016  
Bastian, R., and J. Urmston. A comparison of the effectiveness of internal and external tags in Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*): Statistical Analysis

**Monmouth University Spring Research Symposium** (Poster Presentation) 2016

Bastian, R., H. Kittner, and J. Urmston. Salinity gradients in red mangrove (*Rhizophora mangle*) creeks in the Bahamas: Experimental Design and Statistical Analysis.

**Monmouth University Summer Research Symposium** (Poster Presentation) 2015

Tiedemann, J., T. Putnoky, and J. Urmston. Endangered beach nesting bird monitoring and stewardship.

### **AWARDS AND HONORS**

Dean's Award for Excellence in Undergraduate Research: Monmouth University Spring Research Symposium	2017
2 <sup>nd</sup> Place Undergraduate Poster Award: Ecological Society of America, Mid-Atlantic Chapter	2017
Beta Beta Beta Biological Honor Society	2015-2017
Dean's List, Monmouth University	2014-2017
Phi Eta Sigma First Year Honor Society	2014-2017
Paul J. Gaffney Endowed Science Scholarship	2013-2017
Highest Honors Award: Behavioral Science, Eastern Reg. Jr. Science and Humanities Symposium	2013
American Psychological Association Award, Greater Capital Region Science and Engineering Fair	2013
John Mazur Endowed Science Memorial Scholarship	2013
Richard Phelps Environmental Conservation Science Award	2013

### **SKILLS AND CERTIFICATIONS**

**Wilderness Medical Associates:** Wilderness First Responder Certification  
**American Red Cross:** Life Guard/CPR/First Aid/AED Certifications  
**Statistics:** Proficient in SPSS, Minitab, and Microsoft Excel  
**PADI Open Water Diver:** Scuba Certification  
**NJ Boaters Safety Course Completion Certificate**  
**GIS:** Experience with ArcGIS  
**Marine Field Methods:** Experience with YSI, ROVs, and various fishing methods  
**Dendrochronology:** Proficient in COFECHA  
**Therapeutic Crisis Intervention Certification**

### **RELEVANT COURSEWORK**

Environmental Biology, Environmental Policy, Marine Field Methods, Intro to GIS, Statistical Design of Biological Experiments, Ichthyology, Marine Biology, Biological Oceanography, Ecology, Tropical Island Ecology, Coastal Zone Management, Botany, Zoology, Environmental Chemistry, Calculus

### **EXTRACURRICULAR INVOLVEMENT**

Monmouth University Outdoors Club - <b>President</b>	Fall 2015 - 2016
<b>Vice President</b>	Spring 2015
<b>Activities Chair</b>	2013-2014
Monmouth University Snowriders Club - <b>PR Chair</b>	2015-2016
Monmouth University Environmental Club – General member	2013-2017

### **HOBBIES AND ACTIVITIES**

Hiking, backpacking, skiing, rock climbing, yoga, guitar