

Katherine Stevenson

Graduate Student and Research Assistant
Freestone Lab, Department of Biology Temple University
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RESEARCH INTERESTS

My research interests focus on the conservation of the ecosystems that influence the health and stability of the planet's largest bodies of water at both a global and local scale. Specifically, I want to investigate how humans impact the biodiversity of marine organisms and the best ways to combat marine habitat loss. I want to understand the best ways to apply these studies to conservation outreach programs.

EDUCATION

M.S.	Temple University, Philadelphia PA Biology (Ecology)	2022-present
B.S.	University of North Carolina Wilmington, Wilmington NC Marine Biology (Concentration in Conservation)	2019-2022

RESEARCH AND INTERNSHIP EXPERIENCE

Masters Thesis Project , Temple University Advisor: Dr. Amy Freestone, Freestone Lab	2022-present
<ul style="list-style-type: none">Understanding processes of species biodiversity, invasion risk, and biotic resistance at a regional scale within marine benthic communities across latitudes	
Honors Thesis Project , UNCW Advisor: Dr. Jessie Jarvis, Coastal Plant Ecology Lab	2021-2022
<ul style="list-style-type: none">Investigated the impacts of <i>Halodule wrightii</i> composition on <i>Zoostera marina</i> seed germination and seed viability in North Carolina	
Innovative Student Internship Program Student Trainee at US Army Chemical and Biological Center Advisor: Dr. Jana Kesavan, Aerosol Sciences Laboratories	2021
<ul style="list-style-type: none">Investigated Particle Detection Efficiencies of Three Particle Counters: Aerodynamic Particle Sizer 3321, Lighthouse SOLAIR 3500, and Met One GT-526S	
Marshy Point Nature Center , Baltimore MD Naturalist Intern Supervisor: Benjamin Porter	2020
<ul style="list-style-type: none">Worked in animal husbandry and event programming to educate guests about native species in Maryland	

**First Year Undergraduate Research Project (FYRE), UNCW
Research Student**

2020

Advisor: Dr. Andrea Hawkes

- Researched the impacts of beach renourishment on Masonboro Island in NC through analyzing grain type and size, and measuring the slope of the beach

PRESENTATIONS & PUBLICATIONS

2022 Benthic Ecology Meeting, March 29, 2022

Poster presentation describing the impacts of seagrass species composition on Zostera marina seed germination

2021 Innovative Student Internship Program Brief to Senior Leaders, August 13, 2021

PowerPoint presentation explaining my findings and the evaluation of three particle counters' detection efficiencies to the CBC DEVCOM Director and fellow senior leaders

Particle Detection Efficiency of Three Particle Counters: Aerodynamic Particle Sizer 3321, Lighthouse SOLAIR 3500, and Met One GT-526S

Report is in clearance since November 1, 2021

Work completed at CBC DEVCOM Aerosol Science Lab

ACADEMIC ACHIEVEMENTS

CSURF Competition Fellowship	2021-2022
Scholarship from Ahuja Acad of Water Quality	2021-2022
Wilmington Fellowship & Honors Merit Scholarship	2021-2022
The George Henry Hutaff Honors Scholarship	2019-2022
UNCW Distinguished Merit Scholarship	2019-2022

COMMUNITY SERVICE

North Carolina Aquarium at Fort Fisher [Education Intern], [Kure Beach, NC]	2021-2022
North American Marine Environmental Protection Association [Vice President], [Chapter at UNCW]	2020-2022
Eastern Technical High School Relay for Life [Head Executive], [Baltimore, MD]	2015-2019

TEACHING EXPERIENCE

Temple University Ambler Campus Field Station [Research Assistant], [Ambler, PA]	2022-present
<ul style="list-style-type: none">• Lead undergraduate interns to complete field-based projects for Ambler Field Station at Temple University and mentor students in their individual research projects	
University of North Carolina Wilmington Honors College [Honors Mentor], [Wilmington, NC]	2021-2022

- Mentor 18 honors college freshmen through providing one on one support and social events to help ease students into their first semester of college

University of North Carolina Wilmington University Learning Center

[Front Desk Receptionist], [Wilmington, NC]

2019-2022

- Assist students in scheduling tutoring appointments through an online system and problem solve when answering phone calls and emails