

## Anne Margaret H. Smiley

Ph.D. Candidate

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## Education

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August 2019 - Present	University of North Carolina at Chapel Hill - Ph.D. Candidate, Marine Sciences
August 2017 - May 2019	Florida Gulf Coast University - Graduate courses, Environmental Science
August 2012 - May 2016	University of Florida - B.S. Biochemistry

## Research

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### Peer-reviewed publications

Smiley, A.M.H., Thompson, S.P., Hall, N.S., & Piehler, M.F. (2023). Storm characteristics influence nitrogen removal in an urban estuarine environment. *EGUSphere*, 2023, 1-21.

### Conference presentations

*Urban floodplain habitats mitigate water quality hazards following tropical cyclones.* **Associated Sciences of Limnology and Oceanography Conference**; Palma de Mallorca, Spain; June 4-9, 2023; oral presentation

*Nitrogen processing in an urban reservoir.* **Perkin Elmer Research Symposium**; April 5, 2023; poster presentation

*An interdisciplinary approach to quantifying flood mitigating ecosystem services and identifying beneficiaries in New Bern, NC.* **North Carolina Coastal Conference**; Raleigh, NC; November 8, 2022; oral presentation

*Integrating ecosystem services into flood resilience planning in New Bern, NC;* **Joint Aquatic Sciences Meeting**; Grand Rapids, MI; May 19, 2022; oral presentation

*Natural systems provide flood resilience through nitrogen regulation in an urban estuarine system.* **Perkin Elmer Research Symposium**; April 13, 2022; poster presentation

*Natural systems provide flood resilience through nitrogen regulation in an urban estuarine system.* **Coastal and Estuarine Research Federation Conference**; November 11, 2021; lightning talk

*Nitrogen sources and sinks: spatial relationships impact coastal resilience.* **Southeast Biogeochemistry Symposium**; March 14, 2020; virtual poster presentation

## Teaching

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August - December 2019	Teaching Assistant, MASC 401 Introduction to Oceanography
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## Service and Outreach

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### Advocacy

- April 2022 - June 2023      UNC EMES Department Committee for Graduate Advocacy
- August 2020 - August 2022      UNC-Chapel Hill Graduate and Professional Student Government

### Informal education

- June 2020 - Present      Scientific Research and Education Network-Triangle, Logistics Coordinator
- June 2021 - August 2022      Geoscience Teaching Outdoors in NC & GEO Explorers Camp
- August 2017 - July 2018      Vester Marine Science Summer Camp, Founder

### Stakeholder engagement

**Research collaboration with the City of New Bern** on NC Sea Grant funded coastal resilience project. Co-developing research objectives, generating and collecting mutually beneficial data to understand natural habitat contributions to flood resilience; March 2022-present

**Oral presentation at the Falls Lake Nutrient Management Study Symposium**, hosted by UNC Institute for the Environment, attended by representatives from Upper Neuse River Basin Association; April 19, 2023

**Oral presentation at Stormwater and Green Infrastructure Finance Workshop**, hosted by UNC School of Government, attended by representatives from local and state government; December 6, 2022

**Attended C-CoAST workshop** with researchers, government representatives, and community members. Developed agendas that meet stakeholder and researcher needs; November 16-17, 2022

**Oral presentation at UNC Research Week** as a student representative for NSF funded project, Dynamics of Extreme Events People and Places; November 9, 2021

**Oral presentation at UNC's Institute for the Environment Board of Visitors meeting** on coastal resilience and natural systems; October 4, 2019

### Press

NC Sea Grant Coastwatch article on interdisciplinary coastal resilience research; May 1, 2023

WITN ENC@3 live interview - Discussing Inaugural NC Sea Grant Coastal Resilience Team Competition; March 10, 2023, <https://www.witn.com/2023/03/13/grant-available-nc-students-study-coastal-resilience/>

Article in print magazine, UNC Endeavors, *The Sediment Scientist*; August 19, 2022, <https://endeavors.unc.edu/the-sediment-scientist/>

UNC Institute for the Environment Feature, *UNC-Chapel Hill student team wins inaugural North Carolina Sea Grant's Coastal Resilience Team Competition*; July 8, 2022, <https://ie.unc.edu/2022/07/08/unc-chapel-student-team-wins-inaugural-north-carolina-sea-grants-coastal-resilience-team-competition/>

UNC Institute for the Environment Blogpost, *Natural spaces in urban places and their contribution to coastal resilience*; April 1, 2022, <https://environmentblog.web.unc.edu/2022/04/natural-spaces-in-urban-places-and-their-contribution-to-coastal-resilience/>

Feature in UNC photo story on Geosciences Teaching Outdoors in North Carolina Program, *Bringing classroom learning to life*; August, 2021, <https://www.unc.edu/discover/bringing-classroom-learning-to-life/>

## Awards and Memberships

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### Awards

- EMES Morrow Award for Service - April 2023
- North Carolina Sea Grant Inaugural Coastal Resilience Team Competition, Lead PI: *Incorporating Ecosystem Services into Flood Resilience Planning in New Bern, NC* - March 2022
- FGCU Student Associates for a Green Environment (SAGE) grant - October 2018
- FGCU Alumni Association Scholarship - August 2018

### Memberships

- Coastal and Estuarine Research Federation (CERF) student member
- Associated Sciences of Limnology and Oceanography (ASLO) student member