

Kamber Lovill

(she/her/hers)

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1501 West Fairfield Drive, Mount Airy, NC 27030

EDUCATION

North Carolina State University, Raleigh, NC

Anticipated May 2025

Bachelor of Science Marine Science | *Biological Oceanography*

Minors in Applied Ecology, Biological Sciences, and Plant Biology | 3.975 GPA

RESEARCH EXPERIENCE

National Science Foundation REU

June 2024-August 2024

The University of Washington | Seattle, WA

- Acquired basic R skills.
- Utilized a plate reader to measure optical density.
- Gained skills in q-PCR and primer design.
- Learned media-making, subculturing, and plating techniques.

Undergraduate Researcher

May 2023-Present

Sustainable Health Ecology Lab | Raleigh, NC

- Surveyed and sampled wild snake populations for parasites.
- Became comfortable using compound and dissection microscopes.
- Participated in a literature review on snake parasitology alongside independent research.
- Conducted field tests for pH, relative humidity, and environmental temperatures.

Undergraduate Researcher

January 2023-May 2023

NC State Center for Marine Sciences and Technology | Morehead City, NC

- Analyzed the stomach contents of over 30 bottlenose dolphins.
- Assisted in conducting necropsies on bottlenose dolphins.
- Collected histological samples for a Duke University necropsy.
- Trained in aseptic technique.

PROFESSIONAL EXPERIENCE

Resident Advisor

August 2023-May 2024

North Carolina State University Housing

- Worked with a college freshman population to aid in college life adjustment.
- Gave academic advice and scheduled 1:1 meetings multiple times throughout the semester.
- Achieved successful event turnouts, 1:1 attendance, and overall resident approval.

Living Collections (Animal Husbandry) Intern

September 2023-December 2023

North Carolina Museum of Natural Sciences

- Maintained multiple habitats for amphibians, reptiles, invertebrates, and mammals.
- Trained in handling animals.
- Logged animal diet, water quality, and abnormal behavior.

Assistant Summer Camp Instructor

March 2023-July 2023

North Carolina Museum of Natural Science | Raleigh, NC

- Created lesson plans for elementary summer camp on oceanography.
- Took complex terminology and made it accessible to a variety of age groups.
- Used games to mimic ocean ecology.

PUBLICATIONS

Unpublished, active literature review in snake parasitology in collaboration with the Sustainable Health and Ecology Lab at North Carolina State University.

PRESENTATIONS

NSF REU CICOES (UW) Symposium, Seattle, WA August 2024
Will present a two-minute video presentation alongside a research poster describing the expression of Rubisco in extremophilic proteobacteria. The poster draft is entitled "Growth and Rubisco Expression Under Varying Temperature in *T. arctica* and *T. frisia*."
[Growth of Chemolithoautotrophic Bacteria Research Poster](#)

Applied Ecology Research Symposium, Raleigh, NC December 2023
Presented an independent research project entitled "*Nerodia* Digestive Tract Morphology in Comparison to *Pantherophis guttata*," which investigated the complexities of digestive morphology in comparison to fiber intake.
☐ Nerodia Digestive Tract Morphology in Comparison to Pantherophis Guttata

Semester at CMAST Program Conference, Morehead City, NC May 2023
Presented a semester-long research project entitled "Bottlenose Dolphin Stomach Content Analysis," which identified differences in bottlenose dolphin diet in relation to cause of death.
☐ Bottlenose Dolphin Stomach Content Analysis

HONORS AND AWARDS

- Frank S. Smith Award | Scholarship for Marine Sciences July 2024
- DeMaster Field Camp Award | Scholarship for a Marine Science Field Course April 2024
- PackAbroad Scholarship (NCSU) | Studied Abroad in the Galapagos Islands March 2024
- North Carolina Wildlife Federation (NCWF) | Conservation Scholarship June 2023
- Marine, Earth, and Atmospheric Honors | Honors Program August 2024