

# Curriculum Vitae - Andrew Barfield

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## Professional Experience

November 2023 - Present

### Wong Lab Research Technician - Duke University Marine Lab

- Supervisor: Dr. Juliet Wong - Assistant Professor of Coastal and Marine Climate Change, Duke University
- Duties include molecular and seawater laboratory set-up, instrument and aquaria maintenance, and experiment assistance in support of research-oriented activities at Duke University Marine Lab.
- Duke University Marine Lab - Beaufort, NC

January 2023 - April 2023

### Analysis of Environmental Issues - Undergraduate Capstone Project

- Mentors: Dr. Marcelo Ardon, Dr. Erin Seekamp, Michelle Jewell
- Semester-long project examining the scientific drivers of ghost forests and working with community partners in Harkers Island, NC, to create scientific communication products to help convey the significance of this phenomenon.
- An informational pamphlet on ghost forests was created and will be displayed at the Harkers Island Visitor Center and the Core Sound Waterfowl Museum and Heritage Center on Harkers Island, NC.
- North Carolina State University - Raleigh, NC

May 2022 - July 2022

### Field Research Technician - North Carolina Aquariums Conservation Program

- Supervisor: Dr. Carol Price - Instructor, North Carolina State University and Conservation Research Coordinator, North Carolina Aquariums
- Crystal skipper conservation duties included training other technicians on the team, conducting population surveys, photo documentation of skippers feeding on local nectar plants, preparing a communication outreach toolbox to raise better awareness for the species, a habitat analysis of Bogue Banks using satellite imagery from Google Earth and the Carteret County Gis Website, and a land cover change analysis of Carteret County over time using data from NOAA's Office of Coastal Management.
- Gopher frog conservation duties included surveying for viable habitat and documenting possible presence of species. Surveying efforts included walking transects on a digitally constructed grid and deployment of trail cameras at areas of highest likelihood of species presence.
- North Carolina State University, Center for Marine Sciences and Technology - Morehead City, NC

January 2022 - April 2022

### Independent Research - North Carolina State University

- Supervisor: Dr. Carol Price - Instructor, North Carolina State University and Conservation Research Coordinator, North Carolina Aquariums
- Crystal skipper conservation duties included conducting population surveys, organizing a meeting with project stakeholders to discuss the recovery implementation strategy (RIS) for the species, photo documentation of the species, and identification of native dune vegetation.
- North Carolina State University, Center for Marine Sciences and Technology - Morehead City, NC

## Education

August 2019 - May 2023

**North Carolina State University, Raleigh, NC - B.S. Environmental Sciences**

Minor in Marine Science, *Summa Cum Laude*, GPA 3.75

## Awards

Summer 2022	NCSU College of Natural Resources Terry Student Assistance and Enrichment Fund Recipient (Accepted)
Summer 2022	NCSU Office of Undergraduate Research Project Funding and Research Award Recipient (Accepted)
Fall 2022	NCSU Office of Undergraduate Research Project Funding and Research Award Recipient (Declined)

## Skills

Navigating to field sites and along transects using handheld satellite GPS

Butterfly identification and familiarity with coastal plant and dune ecology

Photo documentation of animal behavior and habitat use with SLR camera

Proficiency with Google Earth and GIS/ArcGis

Experience with reviewing and analyzing scientific literature

Ability to work in harsh conditions

Experience in scientific communication product design

## Presentations

A. Lumpkin, A. Barfield, J. Strickland, R. DeChicco. "Ghost Forests on Harkers Island Coast". North Carolina State University Department of Forestry and Environmental Resources, Raleigh, NC. April 2023.

A. Barfield, H. Moeller, C. Price. *NC Conservation Case: The Crystal Skipper*. North Carolina State University Office of Undergraduate Research Presentation, Raleigh, NC. July 2022.

A. Barfield, C. Price. *NC Pine Knoll Shores Aquarium Conservation Team - The Crystal Skipper*. North Carolina State University Center for Marine Sciences and Technology, Morehead City, NC. May 2022.

## Publications

A. Barfield, A. Lumpkin, R. DeChicio, J. Strickland, M. Ardon, M. Jewell, E. Seekamp, K. Amspacher. 2023. *Ghost Forests: What are they and how can you spot one?*

A. Barfield, H. Moeller, C. Price. 2022 *U.S. Fish & Wildlife Service Crystal Skipper Report*

H. Moeller, A. Barfield, C. Price. 2022 *Wildlife Resources Commission Gopher Frog Report*