

# PHOEBE COLVIN OEHMIG

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## EDUCATION

### Middlebury College

*Bachelor of Arts; Magna cum laude.*

Middlebury, Vermont

February 2021

Biology and Environmental Studies with Honors; Education Studies, minor

- **Academic Honors:** College Scholar (highest academic honor); Dean's List; NCAA DIII All-Academic; NESCAC All-Academic

- **Honors Thesis:** *Effect of warming sea temperatures in the Gulf of Maine on postlarval lobsters' (Homarus Americanus) swimming performance and activity*

- **Computer Skills:** Proficient in R, ArcGIS, ArcGIS StoryMap, ImageJ, Microsoft Office Suite (including Analysis Toolpak in Excel), Zoom

- **Laboratory Skills:** dissections, bacterial culturing, spectrophotometry, calorimetry, microscopy, polymerase chain reactions, pipetting (micro and serological), gel electrophoresis, titrations, video analysis

- **Leadership:** Middlebury Varsity Cross Country Co-Captain, Green Liaison for Middlebury Cross Country

### School For International Training: *Rainforest, Reef, and Cultural Ecology*

*Biology Focused Study Abroad Program for Undergraduate Students*

Great Barrier Reef, Cairns, Australia

Spring 2019

**Perry Institute for Marine Science:** Atlantic and Gulf Rapid Reef Assessment Fish Identification Certification

Winter 2020

**PADI SCUBA Certifications:** Reef Rescue Diver; Advanced Open Water Diver; Enriched Air Diver

Spring 2019

## EXPERIENCE

### Wells National Estuarine Research Reserve

*NOAA Research Intern for Dr. Jason Goldstein*

Wells, Maine

June 2020- Feb 2021

- Carried out lab experiments and conducted data analysis in R for a Sea Grant project examining warming sea temperatures on lobsters
- Analyzed 50 hours of videos to observe postlarval lobster swimming behavior at current and future sea temperatures
- Assisted in the field with long term monitoring programs including water quality, invasive marine invertebrate abundance, planktonic larval fish and invertebrate abundance, and microplastic identification

### Bahamas Coral Innovation Hub: Cape Eleuthera Inst./Perry Inst. for Marine Science/The Nature Conservancy

*Student Researcher for Dr. Craig Dahlgren*

Eleuthera, Bahamas

Winter 2020

- Worked on the staghorn genetic diversity project to investigate the resilience of staghorn corals from distinctive thermal regimes
- Poster Presentation: *Agal gardeners Stegastes spp. and overfishing of their predators associated with coral-algae phase shift on Bahamian Reefs*

### NOAA Fisheries: Ecosystem Dynamics and Assessment Branch

*Research Intern for Dr. Scott Large, Chief*

Woods Hole, Massachusetts

Summer 2019

- Aided in extending a multispecies ecosystem-based fisheries management model by consulting professional literature and fisheries management plans to create an extensive literature review
- I used Excel and the R programming language to improve mathematical and statistical models for the model

### ECOCEAN: Whale Shark Research and Conservation

*Research Intern for Dr. Brad Norman*

Ningaloo Reef, Exmouth, Western Australia

Spring 2019

- Conducted an independent research project on whale shark sightings to inform the ecotourism industry
- Took eDNA samples, photographed, and sexed whale sharks to further expand the *Wildbook for Whale Sharks* database
- Performed statistical analysis on large datasets derived from a photo-identification database to aid in the conservation of whale sharks

### James Cook University: ARC Centre of Excellence for Coral Reef Studies

*Student Researcher for Dr. Vanessa Messmer*

Lizard Island Research Station, Queensland, Australia

Spring 2019

- Researched the *Effects of a series of environmental disturbances on coral reef and Chaetodon butterflyfish communities at Lizard Island, Great Barrier Reef*

### Cape Eleuthera Institute: Pelagic Fisheries Team

*Research Intern for Dr. Zack Zuckerman*

Eleuthera Island, The Bahamas

Fall 2015- Spring 2016

- Investigated microplastics in pelagic fish gut content and took tissue and liver samples to be tested for POPs
- Examined predator prey relationships between spawning bonefish aggregations and barracuda using acoustic tracking
- Analyzed BRUVs (baited remote underwater videos) for fish diversity, abundance, and behaviors
- Quantified the density microplastics in the Exuma Sound by executing plankton tows

### Bring Your Own Bag Campaign

*Steering Committee Member*

Brunswick and Topsham, Maine

2015-2017

- Delivered presentations to the Maine State Legislature, Brunswick Town Council, and Town of Brunswick Recycling and Sustainability Committee to advocate for the reduction of plastics pollution in the Gulf of Maine.
- Published related articles and public service announcements including *Portland Press Herald*, *Natural Resources Council of Maine*, *TV3 Brunswick*
- Outcomes Include: State of Maine ban on Styrofoam, 2019 and plastic bag ban, 2020