

Alexander Thomas

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Education

UNIVERSITY OF DELAWARE | 2016 - 2018 | B.S

- Major: Marine Science
- Concentration: Marine Biology
- Advisor: Dr. Joanna York

WASHINGTON COLLEGE | 2014-2016 | B.S

- Major: Biology
- Concentration: Marine Biology
- Advisor: Dr. Martin Connaughton

Relevant Experience

OYSTER AQUACULTURE TECHNICIAN

AUGUST 2019 – APRIL 2020

AmeriCorps/ Phillips Wharf Environmental Center, Tilghman, MD

- Assisted in running oyster nursery by maintaining equipment and regular cleaning of oysters and tanks.
- Designed and built downweller systems to increase efficiency in oyster growing process.
- Sorted and sized oysters on company boat, year-round for extended hours of the day.
- Tested and documented water quality to ensure safe parameters for oyster growing.

AMERICORPS TRAIL CREW

MAY 2019 – AUGUST 2019

New York New Jersey Trail Conference, Harriman, NY

- Constructed sustainable hiking trails to preserve surrounding ecosystems in New York National Parks
- Identified rare plant species and constructed switch backs to protect them.
- Trained incoming service members and volunteers sustainable trail building practices.

WETLAND FIELD TECHNICIAN

MAY 2018 – OCTOBER 2018

Delaware Department of Natural Resources and Environmental Control, Dover, DE

- Performed MIDtram and DERAP scientific protocols to assess overall wetland health.
- Used ArcGIS to create maps of assessment sites and determine wetland value.
- Garnered extensive wetland plant and soil knowledge through constant identification and assessment.
- Collected field work data and sampling for analysis.
- Worked as a member of the scientific field team to determine anthropogenic stresses on Delaware wetlands.
- Assessed water quality and anthropogenic stressors the city of Wilmington has on the Christiana River.

SEMESTER IN RESIDENCE

AUGUST 2017 – DECEMBER 2017

University of Delaware Lewes Campus, Lewes, DE

- Designed a research experiment and utilized R data analysis to compile data into a research paper.
- Performed transects in marshlands and other coastal environments.
- Collected live specimens in the field used for research experiments.
- Performed dissections to determine the effect parasites have on survival behaviors.

SCIENCE AND RESTORATION INTERN

MAY 2017 – AUGUST 2017

Delaware Center for the Inland Bays, Rehoboth Beach, DE

- Performed water sampling and vegetation research in the Delaware Inland Bays.
- Conducted fish seins along Delaware coastline to determine health of wild fish stock.
- Used ArcGIS to track and locate tagged horseshoe crabs along the Maryland and Delaware coastlines.
- Assessed health of eel grass beds throughout the Delaware Inland Bays.

Relevant Skills

R	PCR
ArcGIS	Python
Microsoft Office	Maintaining and utilizing lab equipment.
Piloting boats in shallow and open water	Navigating wilderness with handheld GPS devices.

Relevant Course Work

Ichthyology	Fall 2016
Organic Chemistry	Spring 2017
Marine and Terrestrial Ecology	Spring 2017
Marine Biology	Fall 2017
Oceanography	Fall 2017
Research Experience in Biodiversity	Fall 2017
Coastal Field Ecology	Fall 2017
Marine Invertebrates Biodiversity	Fall 2017
Bioinformatics	Spring 2018

Certifications

Wilderness First aid
Red Cross CPR certification
Delaware Boating License

Service and Outreach

Police Department of Easton, MD

- Assisted in filling holiday care packages for the homeless.

Americorps

- Helped teach under privileged youth the importance of environmental conservation and sustainability.