

# ALEXANDRA CARLOTTO

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## EDUCATION

**Northeastern University** - Masters in Environmental Science and Policy May 2025  
Northeastern University Global Learners Award Recipient

**Fairfield University** - Bachelor of Art & Science | Fairfield, CT May 2023  
Majors: Biology & Environmental Studies  
GPA: 3.46  
*Honors/Awards:* Honors Program, Recipient of the Research Distinction in Biology Award (2023), Magis Scholarship Recipient (highest academic scholarship), Sigma Xi (Scientific Research Honors Society), Alpha Mu Gamma (Foreign Language Honors Society), Dean's List

## EXPERIENCE

**Blue Frontier – Volunteer** | Remote April 2023 – Present

- Worked with a team to set up the Ocean Climate Action Federal Agency meetings for Ocean Week 2023 with a goal of crafting the Ocean Climate Action Plan (OCAP)
- Draft letters for outreach to agency participants in an effort drive participation in OCAP meetings
- Compiled reports on policy next steps and past actions to be distributed to federal agencies

**Toxicology Lab, Fairfield University - Research Assistant** | Fairfield, CT September 2022 – May 2023

- Developed thesis on the evolution of snake species by analyzing the protein components in venom using proteomics
- Utilized biochemical methods (ie. mass spectroscopy, chromatography, gel electrophoresis, and microarrays) to quantify chemical venom makeup
- Generated data analysis and drafted reports delineating findings
- Developed poster presentation highlighting findings and delivered presentation at the Fairfield University Research Symposium and the Biology Research Distinction Symposium

**Public Service Enterprise Group (PSE&G) - Technical Intern** | Clifton, NJ June - August 2022

- Supported the office of Environmental projects with life cycle of ongoing projects within an approved budget and schedule
- Utilized Excel to design and run cost analysis pricing sheets for contractors
- Researched and designed a recycling program for waste
- Analyzed lead quantity in soil samples at construction sites and buildings
- Engaged with contractors to ensure compliance with EPA and DEP environmental regulations and standards

**Marine Biology Lab, Fairfield University - Research Assistant** | Fairfield, CT September 2021 - May 2022

- Designed thesis on the impact of micro plastic on mollusk and arthropod biodiversity and overall seabird population density on Long Island Sound
- Collaborated with a research professor to identify relevant questions and determine best methods of collection
- Utilized Field Lab Techniques to collect data
- Planned, modified and executed research techniques, procedures and tests
- Generated data models, performed population analysis and drafted reports outlining results

## LEADERSHIP EXPERIENCE

**The Women's Network, Fairfield University – President** September 2021 - December 2022

- Led the Executive Board of The National Women's Network Fairfield University chapter
- Attended biweekly meetings with the President of the national organization to report and improve upon the activities of Fairfield's chapter
- Ran biweekly chapter meetings; hosting speakers, resume workshops, and networking events

## PRESENTATIONS

**Sigma Xi Research Symposium - Invited Conference Presenter** | Fairfield, CT April 2023

**Association of Zoos & Aquariums Annual Conference - Peer Reviewed Presenter** | Baltimore, MD August 2022

**Beardsley Zoo Evening Lecture Series - Invited Speaker** | Fairfield, CT April 2022

**Sigma Xi Research Symposium - Invited Conference Presenter** | Fairfield, CT April 2022