

Olivia Cronin-Golomb

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Education:

Boston University (BA/MA program, expected graduation May 2020)

- Bachelor of Arts in Earth and Environmental Sciences, concentrating in Earth Observations – GPA: 3.73
- Master of Arts in Remote Sensing and Geospatial Sciences – GPA: 4.00
- Minor: Marine Sciences

Academic Awards and Funding

- Dean's List: Every semester enrolled at BU
- Undergraduate Research Opportunities Program
 - 1/2019 - present: Stipend award (x4 - spring, summer, fall, spring)
 - 1/2019 and 12/2019: Conference travel grant
- Lara D. Vincent Research Assistance Fund for Original Research, BU Marine Program (8/2019)
- Student Academic Enhancement Fund, College of Arts and Sciences (9/2019)
- Earth and Environmental Department Travel Fund (9/2019)
- ASLO Registration Grant (1/2020)

Research Experience:

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| 1/2019 - present | NASA MEaSURES Research Assistant |
| | Creating a moderate spatial resolution data record of 21 st century global land cover, land use, and land cover change to develop a global database of training and validation data that will be used to estimate classification models and quantify the accuracy of mapped products. |
| 12/2018 – present | Aquatic Optics and Photobiogeochemistry Lab, Boston University: Research Assistant. Lab director: Cedric Fichot |
| | Conducting a time-series analysis of the optical variability in the Charles River to create preliminary proxies for measuring inland water quality from satellite imagery |
| | Collecting water samples of Walden Pond (Concord, MA) to quantify photobleaching processes |
| | Senior honors thesis: Collecting and processing water samples from Plum Island Estuary (MA) to characterize the sources of optical variability of light attenuation to model seagrass habitat suitability |
| 2/2018 - 5/2018 | SEA Semester, Oceans and Climate, Boston University: Participant |
| | Collected and compared MODIS and in-situ data to validate sea surface temperature and chlorophyll-a ocean color algorithms in the South Pacific Ocean between New Zealand and Tahiti, on the <i>Robert C. Seamans</i> research vessel. |
| 9/2016 - 12/2016 | Coastal Biogeochemistry Lab, Boston University: Research Assistant. Lab director: Wally Fulweiler |

Processing soil samples taken from Narragansett Bay (RI) to measure nitrogen concentrations

5/2018 - 7/2018 GeoQuest Research Centre, University of Wollongong, Australia:
Research Assistant

Georeferenced islands located on the Great Barrier Reef, Australia.

Conference Abstracts

4/2019 Cronin-Golomb, O., Freck, J., Goodwin, D. (2019), "Assessing the Accuracy of Remotely Sensed Sea Surface Temperature and Chlorophyll-a Concentrations in the South Pacific Ocean." Abstracts, American Association of Geographers, Washington, D.C.

2/2020 Cronin-Golomb, O., Fichot, C. (2020), "Towards understanding how UV exposure influences "Zostera marina" seagrass habitat suitability in coastal New England." Abstracts, Ocean Sciences Meeting, San Diego, CA

Technical Skills:

Proficient in ArcGIS, QGIS, ENVI, SeaDAS, Ocean Data View, SNAP, Google Earth Engine, R, Python, and Microsoft Office Suite.

Other Relevant Experience:

10/2019 – present New England Aquarium: liveBlue Service Corps

Participating in service opportunities throughout the Greater Boston Area.

9/2016 - present Boston University Dinghy Sailing, Social Media Director

Participate in practices four days a week and compete on weekends throughout New England.

9/2019 - present Epsilon Eta, Pi Chapter: Service and Legislative committees.

Organizing environmental events to bring awareness of environmental issues to campus, participating in and organizing volunteering events.

9/2016 - 9/2018 Environmental Student Organization, Social Media Director

Participate in on-campus environmental activities such as awareness campaigns, volunteer work, and setting up and attending environmental lectures.

5/2014 - 7/2018 Quannapowitt Yacht Club: Head Race Coach of the sailing program.

Aided in planning and logistics for transportation, coach boats, registration for regattas, supervision and training of junior instructors, and collaboration with both parents and other sailing clubs.

Certifications

Level One Sailing Instructor (2015); NASBLA US Boating Certification – Florida (2015); SCUBA open water (PADI) (In progress)