

SOPHIA LY

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SUMMARY

An early career environmental science and policy professional with proven administrative, theoretical, and technical expertise and skills, looking for a career that bridges the gap between scientific research and public engagement.

CERTIFICATIONS AND SKILLS

Certifications: USGS Industrial Hygiene, Safety and Occupational Health; CITI Social and Behavioral Research

Soft Skills: Dependability, Teamwork, Organization, Adaptability, Leadership, Communication, Empathy

- Punctual
- Meets deadlines
- Honest
- Resilient
- Open-minded
- Driven
- Works well under pressure
- Relationship and team-building
- Conflict resolution
- Time management
- Detail-oriented
- Prioritization
- Administrative
- Positive attitude
- Flexible and agile
- Adapts quickly to new environments and projects
- Collaborative
- Project management and execution
- Goal setting
- Eager to learn and teach
- Public speaking
- Scientific communications
- Curious
- Perspective-taking

Technical Skills: Data Management and Analysis, Systems Dynamic Modeling, Project Management and Coordination

- GIS experience (ArcGIS)
- Python
- STELLA
- RStudio
- Image J
- GIMP
- Microsoft Suite
- Canvas
- Trello

EXPERIENCE

Northeastern University

Research Assistant, Helmuth Marine Ecological Forecasting Lab

Boston, MA, USA

Feb 2018 – Present

- Analyze the data product needs of natural resource managers
- Coordinate project tasks and facilitate meetings for a transnational research team
- Plan and execute an experiment determining the prevalence of thermal history in the population dynamics of algae
- Develop a serious video game to facilitate a better understanding of ocean ecosystem health and sustainable aquaculture among middle school students
- Assist with temperature and biodiversity data collection and management
- Create onboarding presentations for new interns

AmeriCorps – Mile High Youth Corps

Land Conservation BIPOC Affinity Crew Member

Denver, CO, USA

May – Aug 2021

- Preserved nature and increased the public's safe access to nature through land restoration projects
- Worked collaboratively on a nine-person team to ensure successful completion of each project
- Cultivated an inclusive team atmosphere and started conversations about being part of the BIPOC community
- Executed natural resource management projects for local, county, and state agencies
 - Restored native riparian habitats and prevented erosion in the watershed
 - Constructed and maintained hiking and mountain biking trails
 - Performed noxious weed removal via herbicide application
 - Prevented Emerald Ash Borer epidemic from spreading in urban forestry landscapes via insecticide application)

EXPERIENCE CONT.

Conservation Law Foundation

Boston, MA, USA

Clean Air and Water Co-op

Sep – Dec 2020

- Conducted preliminary company research for clean air and water lawsuits
- Tracked and monitored discharge monitoring reports and lab reports from offenders
- Collaborated with the communications team on right whale conservation efforts
 - Published a blog on the CLF website, “3 Ways North Atlantic Right Whales Help Solve Climate Change”

Indigo Agriculture, Inc.

Boston, MA, USA

Innovation Analyst Co-op, Systems Innovation Team

Jul – Dec 2019

- Lead initial due diligence on strategic experimental partners
- Communicated technology landscape and analytical findings to team leads via slide decks in standing meetings
- Collaborated with internal R&D and field research departments to initiate cross-functional buy-in and key partnerships
- Provided scientific strategy, logistics, and execution support for the launch of the Soil Carbon Experiment
 - Drafted, edited, finalized training/educational content for internal, external, and specialist audiences
- Compiled list of 379 contacts for the Terraton Challenge; evaluated cohort of 260+ innovative solutions with the Terraton Challenge team; independently screened 193 applications
- Developed framework for creation of literature database on the impact of regenerative practices on soil carbon sequestration; handed off project to the internal R&D team

Smithsonian Tropical Research Institute

Panama City, Panama

Research Fellow Co-op, Collin Marine Evolutionary Ecology Lab

Jul – Dec 2018

- Conducted independent 6-month long study on the effects of temperature on the oogenesis of *Crepidula cf. marginalis*,
- Ran hypoxia sub-studies to investigate the impact of climate change on brittle stars in the Bay of Panama

EDUCATION

Northeastern University (Boston, MA, USA)

Master of Science in Environmental Science and Policy

Dec 2021

- Relevant coursework: International Environmental Policy, Ecosystem-Based Management, Environmental Science and Public Policy Seminars 1 and 2, Sustainable Urban Coastal Policy, Python for Political Analysis, Geographic Information Systems, Dynamic Modeling

GPA: 4.00/4.00

Bachelor of Science in Environmental Science

May 2021

- Concentration in Conservation Science, Minors in Political Science and Biology
- *Honors*: Summa Cum Laude, Dean’s List (Fall 2017, Spring 2018, Spring 2020, Spring 2021)
- Relevant coursework: Environmental Ethics, Terrestrial Wildlife Ecology, Biostatistics, Urban Policy, American Government, International Relations, Dynamic Modeling

GPA: 3.98/4.00

The University of Queensland (Brisbane, Australia)

Feb – Jun 2019

Study Abroad Program: Environmental Planning, Environmental Politics, Ecological Economics, Outback Ecology

PUBLICATIONS AND PRESENTATIONS

Publications:

- Ly, S. and R. Collin. 2021. Temperature-Induced Changes in Hatching Size of a Tropical Snail Occur During Oogenesis and Can Persist for Several Weeks. *Biol. Bull.* 240.
- Ly, S. 2021. 3 Ways North Atlantic Right Whales Help Solve Climate Change. *Conservation Law Foundation*.

Presentation:

Ly, S. And R. Collin. 2021. Temperature during oogenesis impact the offspring of a tropical slipper limpet. *The Society for Integrative and Comparative Biology Conference*. Poster Presentation.