

Fiona C. Dubay

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Education

Sarah Lawrence College

B.A. in Liberal Arts | *Cumulative GPA 3.93*

Concentration: Environmental Science

Academic Advisor: Drew Cressman | **Research Advisor:** Bernice Rosenzweig

Bronxville, NY

May 2024

Honors & Awards

Sarah Lawrence College Edward Cogan Prize for Science and Mathematics

2024

Sarah Lawrence College Scholarships:

Gaylord Donnelley Family Science Scholarship

2020-2024

Dean's Scholarship

2020-2024

Research Experience

NYC's Climate Vulnerability, Impact, and Adaptation Analysis (VIA)

New York City, NY

Student Intern

September 2023 - December 2023

- Created digital maps and visualizations using QGIS software for publication on flood exposure and risk in New York City
- Processed spatial data and databases in vector and raster formats for clear visualization in QGIS
- Communicated and collaborated with other scientists and specialists on the task team
- Assessed the quality of 311 data for analysis and visualization usage

NYC's Panel on Climate Change (NPCC) & VIA

New York City, NY

Summer Fellow

June 2023 - August 2023

- Crafted visualizations on flood exposure in NYC for publication in the NPCC's first chapter, specifically focused on flooding
- Sorted and cleaned open-source data from NYC OpenData's site for analysis use
- Handled and refined large, detailed, spatial data files through QGIS
- Utilized Python for cleaning, refining, and visualizing rainfall and tide gauge datasets

Sarah Lawrence College Summer Research Program

New York City, NY

Environmental Science Intern

2021, 2022

Advisor: Bernice Rosenzweig

- Engaged in hands-on research experience through an intensive 8-week summer program
- Assisted faculty with existing research work
- Gained a robust understanding of the means of conducting research through individual and collaborative projects
- Designed and carried out experiences, analyzed results, communicated findings with a wide audience through presentations

Sarah Lawrence College Conference Work
*Various research projects completed complementary to coursework,
on topics ranging from hydrology, remote sensing, microbiology, and ecology.*

*Bronxville, NY
2020 - 2024*

Link to research portfolio containing these projects, and more: fonadubay.com

Research Interests

- Fate, transport, and remediation of environmental contaminants
- Hydrology & hydrological modeling
- Applications of remote sensing and environmental modeling
- Microbiology

Work Experience

City of Santa Monica Office of Sustainability & the Environment *Santa Monica, CA*
CivicSpark / AmeriCorps Fellow *October 2025 - Present*

- Assist with community planning projects, such as developing an extreme heat risk action plan
- Mobilize volunteers and gather community feedback to support project implementation
- Gather, analyze, and organize data for various analyses and visualizations that support ongoing projects

CivilGrid *Remote*
Data Research Specialist *October 2024 - February 2025*

- Interpreted maps, as-built drawings, and engineering plans at a basic level
- Researched utility operations, public works assets, and asset management plans
- Digitized utility maps in ArcGIS Pro
- Communicated directly with public works offices and utility asset owners over email and phone

Agerpoint *Remote*
Geospatial Data Intern *May 2024 - August 2024*

- Ingested and processed numerous data types based on Standard Operating Procedures (SOPs)
- Assisted in machine learning model training by providing feedback to machine learning/AI development teams on model performance
- Organized and maintained data storage according to client account requirements and standards

Skills

Technical Skills

Geospatial Analysis: QGIS, ArcGIS Pro
Data Analysis: Python (NumPy, Pandas, geopandas), R
Visualization: Python (matplotlib, seaborn), QGIS, ArcGIS Pro
Additional: CPR & First Aid Certification

Nontechnical Skills

- Independent problem solving
- Confident oral/written communication
- Organization of data
- Creativity, innovation, and adaptation

Volunteer Experience

MESD Outdoor School
Student Leader / Environmental Educator

*2017-2019
600 hours*