Fiona C. Dubay · fionadubay@gmail.com · (503) 984-7617 ·

Portfolio of GIS projects and environmental science research - fionadubay.com

RECENT EXPERIENCE

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

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 flooding chapter
- 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

EDUCATION

Sarah Lawrence College | Bachelor of Arts | *Cumulative GPA: 3.93* *Bronxville, NY* | May 2024

Honors: Edward Cogan Prize for Science and Mathematics, Gaylord Donnelley Family Science Scholarship

Relevant Coursework: Environmental Data, Geospatial Data Analysis, Pollution, Watersheds, Microbiology

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

ADDITIONAL EXPERIENCE

Starbucks | **Barista/Partner** May 2025 - Present

Sarah Lawrence Summer Research Program | **Environmental Science Intern** 2021, 2022

Sarah Lawrence College SciMath Dept. | **Environmental Data & Microbiology Tutor** Jan 2024 - May 2024

Sarah Lawrence College IT Department | **IT Help Desk Assistant** Jan 2024 - May 2024

Sarah Lawrence College Library | **Shift Supervisor & Assistant** September 2022 - May 2023

Sarah Lawrence College | **Campus Van Driver** Intermittent | 2021-2024

Annie Bloom's Bookstore | **Clerk** Seasonal | 2017-2021

Volunteering

MESD Oregon Outdoor School
Student Leader | 600 hrs | 2017-19

Interests

Viola, knitting/crocheting, citizen science, outdoor education, entomology