Flora Shu-Qi Hamilton

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Languages: English, Mandarin Chinese • Conversational: French, Min Nan Chinese

EDUCATION

Master of Environmental Data Science '24 | Bren School of Environmental Science & Management, UCSB
Bachelor of Arts in Mathematics and Environmental Studies '21 | Bowdoin College, Brunswick, ME

PROFESSIONAL EXPERIENCE

Natural Resources and Ecology Laboratory, Fort Collins, CO (remote)
Data Analyst (9/16 – Expected: 11/30/24)
- Contribute to project on testing virtual fencing grazing methods and assessing impact on rangelands.
- Prepare research for publication and communicate findings to partners including Colorado Parks and Wildlife, local ranchers, and The Nature Conservancy

NASA DEVELOP @ Goddard Space Flight Center & Fort Collins Node
Data Analyst (6/16 – Expected: 11/16/24)
- Conduct two feasibility studies using NASA remote sensing products to understand 1) Oak tree mortality in Illinois in Chicago, IL and 2) wildfire impacts on snow depth in Northern Colorado
- Developed scalable visualization workflows to summarize remote sensing data using R and ArcGIS and implemented predictive models of snow depth as a function of environmental variables.
- Synthesized results and prepare research for future journal publication.

Darn Tough, VT | **Master's Capstone Project Data Analyst** (01/24–06/24) | Repository • Blog • Description
- Updated Darn Tough's carbon accounting model for quantifying sock production supply chain emissions according to latest GHG Protocol guidance.
- Developed an interactive application in R Shiny for visualizing annual GHG emissions through parameters.

Cary Institute of Ecosystem Studies, Millbrook, NY | **Data Jam Data Intern** (12/22–7/23)
- Worked with scientists to create datasets, worksheets & metadata for Hudson Data Jam Competition.
- Assisted in classroom instruction, communicating data science and environmental science principles.

SOSV and Orbit Startups, Taipei, Taiwan
Investment Specialist (6/21–2/22)
- Sourced, researched, and met with potential start-ups in SEA region, conducting interviews with general partner for investment. Researched and wrote memos for add-on investments of global VC with 1.3+ AUM.
- Advised, supported, and reviewed investment, financial, and sales materials to portfolio companies.

Integrative Economics, LLC, Portland, OR
Independent Contractor (7/22–10/22)
- Used k-means cluster analysis in QGIS to identify management regions and high impact areas for the planting of pollinator friendly species in the Willamette Valley.
Product Development Intern (3/20–8/20)
- Used remotely sensed vegetation data, strategize methods to reduce pesticide use through cooperative methods and inform growers in their pesticide application decision.
- Conducted quantitative analysis of COVID's economic impact on domestic high-bush blueberry industry. Results used in report for High-Bush Blueberry Council.

RELEVANT SKILLS

Technical: R, Python, Git & GitHub, Google Earth Engine, ArcGIS, Version Control, Markdown, SQL, HTML, CSS, database management, data analysis, geospatial analysis, statistical analysis, machine learning, dashboard development, Google & Microsoft Suite