**Flora Shu-Qi Hamilton**

flora.s.hamilton(at)gmail.com• [website](file:///Users/florahamilton/Documents/2_Areas/Areas_CAREER/floraham.github.io) • [portfolio](https://floraham.github.io/Projects.html) • [GitHub](https://github.com/floraham) • [LinkedIn](https://www.linkedin.com/in/flora-hamilton-946980122/)

**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 Resource 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**](https://github.com/carbonSOCKprint) **•** [**Blog**](https://floraham.github.io/Projects/2024-06-09-darn-tough/) **•** [**Description**](https://bren.ucsb.edu/projects/creating-reproducible-model-annual-emissions-outputs-sock-manufacturers-supply-chain)

* 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