

**Gavin Scoville**  
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## **EDUCATION**

**Western Washington University**, Bellingham, WA

***Bachelor of Arts - Economics***, August 2025

- Minors — Mathematics, Environmental Science
- GPA 3.94 — Graduated with Honors: Cum Laude
- Marine and Coastal Science Scholars Program. RSP Pilot Project Grant Funding. Economics Department Travel Funding. Economics Department Scholarship. Distinguished Graduate award.
- Course Highlights— *Stream Ecology (A)*, *Machine Learning and Statistical Learning (A)*, *Advanced Environmental Economics (A)*, *Mechanics of Materials (A)*, *Multivariable Calculus and Analytical Geometry II (A)*.

**Study Abroad** — Okavango Delta, Botswana, September 2023

Three month program collecting biological field data and survey data.

Identified how changing hydrological patterns are affecting people and the landscape

Mixed data collection with community outreach and classes.

## **RESEARCH INTERESTS**

My research interests revolve around solutions to some of the world's messiest and most challenging water resource issues. As time has passed and climate models changed, my concentration has moved from preventative measures like utilizing environmental economics to internalize water pollution externalities, to adaptive strategies like building artificial reef structures. The water cycle is one of the world's processes that most needs an interdisciplinary management approach. I am excited to apply my diverse background, my love of stochastic systems, and my unending passion for creative problem solving to researching hydrological systems at XXXX.

## **RECENT PUBLICATIONS AND PROJECTS**

Performed Analysis and Writing for the Peer-Reviewed Paper:

Glosser, D., Fish, N., Scoville, G., & Oos, K. (2026). Effect of temperature and atmosphere on the optical, thermal, and structural properties of fly ash particles. *Powder Technology*, 468, 121650. <https://doi.org/10.1016/j.powtec.2025.121650>

Created statistical models to find trends in global forests (see [GitHub](#)):

Presented a [powerpoint](#), giving an overview of non-market valuation techniques to food-system researchers at the 2024 AFHVS international food systems conference.

Additional sample works available on my personal website:

<https://gavinscoville.github.io/GavinScoville/portfolio/>

## **RESEARCH EXPERIENCE**

### **Concentrated Solar Power Research Assistant**

June 2025-Sep 2025

- Analyzed lab data and performed statistical testing
- Created data visualizations
- Wrote sections of the published peer-reviewed paper

### **Estuarine Field and Lab Technician**

June 2025-Sep 2025

- Collected sediment cores and survey data in PNW estuaries
- Utilized lab and statistical techniques to infer carbon cycling and sedimentation rates.

### **Environmental Economics Research Assistant**

April 2024-June 2024

- Reviewed literature for Dr. Plakias's Agricultural Economics Program at WWU
- Analyzed cutting-edge techniques for cost-benefit analysis of Environmental Projects
- Presented my findings at international conference in Syracuse NY.

### **Forest Ecology Data Science Internship**

January 2024-August 2024

- Built machine learning algorithms for analyzing the ITRDB global tree ring data
- Identified global patterns in how climate change is affecting forest health

### **Okavango Delta Research Assistant**

Sep 2023 - December 2023

- Collected Biological and Survey Data in Okavango Delta
- Studied how changes in hydrology affect both the landscape and people
- Supporting Botswana's Community Based Natural Resource Management program.

### **Center for Economics and Business Research Assistant Researcher**

Sep 2022 - Sep 2023

- Wrote Economic Reports for Clients
- Compiled Cost Benefit Analysis Studies
- Summarized Cost Estimation Reports

## **MENTORSHIP AND COMMUNITY ENGAGEMENT**

### **Math and Economics Tutoring**

Sep 2022 - Sep 2023

- Found alternative learning tools for teaching students with different learning styles
- Utilized Socratic methods and problem based learning to motivate students
- All of my students were able to pass their classes after working together

### **Community Engagement and Indigenous Partnerships Cohort**

March 2023

- Engaged in six weeks of meetings on creating community engagement, truth, and reconciliation in native and non-native partnerships
- Lessons were in collaboration with White Swan Environmental

### **Outdoor Leadership**

Sep 2020 - Present

- Lead trips introducing people to their public lands including camping, canoeing, skiing and climbing

## **RELEVANT SKILLS**

**Technical/Programming:** R, Python, Github, STATA, SQL, GIS

**Research and Data Skills:** Handling large and messy time-series datasets for ecological, hydrological, and behavior modeling. Applying machine learning methods to look for complex patterns. Interpreting messy data to motivate decision making.

**Field/Lab Methods:** Fluvial Sedimentation Analysis. Discharge Measurement. Sediment Coring. Tension and Compression Testing. River Flow Monitoring. Coring Tree Rings. Riparian Habitat Assessments.

**Field Skills:** Navigating, backpacking, climbing, equipment maintenance and repair, operating heavy equipment, operating water vessels, First Aid.

## **ADDITIONAL PROFESSIONAL EXPERIENCE**

**Climbing Arborist** Sep 2024 - Present

- Climbed trees & operated saws in challenging conditions with a diverse team of people
- Exited clients about becoming stewards of their local landscape

**Painter** June 2022 - Sep 2022

- Exceeded productivity expectations while painting houses alone for long hours

**Line Cook** June 2021 - Sep 2021

- Prepared dishes with a fast-paced team for a high end Hawaiian bar
- Thrived under pressure, performing best when the restaurant depended on me

**Farm Hand** June 2020 - Sep 2020

- Raised Livestock at Winzor Farms in Ellensburg, WA
- Operated Heavy Equipment