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 patters are effecting 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 exited 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

Portfolio: https://gavinscoville.github.io/GavinScoville/

Preformed 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):
https://github.com/AndyBunn/itrdbTrends/blob/main/Tree%20Ring%20Analysis.Rmd

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

(insert link to slides when I have them set up on Github)

RESEARCH EXPERIENCE

Concentrated Solar Power Research Assistant   June 2025-Sep 2025
- Analyzed lab data and preformed statistical testing
- Created data visualizations
- Wrote sections of the published peer-reviewed paper

Estuarian 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 effecting 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 - Sep 2025
  • 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, preforming best when the restaurant depended on me

Farm Hand   June 2020 - Sep 2020
  • Raised Livestock at Winzor Farms in Ellensburg, WA
  • Operated Heavy Equipment