Kaveh G. Siah

Irvine, CA | +1 949-735-1526 | kavehsiah@gmail.com | Portfolio: https://coffee-powered-scientist.github.io/

Education and Experience

Oregon State University

M.S. Forest Ecosystems and Society & Soil Science

As a graduate student, I worked with experts in biogeochemistry, silviculture, and applied modeling to complete my master's thesis, *An Analysis of Nutrient Depletion in Douglas-fir forests of the Oregon Coast Range*.

- Led bug-testing, analysis, and managed project goals on a continuously changing model
- Led sustainability analyses (sustainable forest harvest scenarios)
- Worked with a team of 4 other scientists to discuss model updates and implementations
- Wrote R code to analyze model-output data
- Conducted extensive literature review for data collection
- Calibrated model with a self-implemented calibration system
- Wrote and edited a scientific proposal, master's thesis, user manual, and 2021 AGU abstract

University of California, Irvine

B.S. Biological Sciences

I applied field and lab techniques, developing a unique undergraduate research focus in biogeochemistry

- Collected field litter and freshwater samples, producing and analyzing enzyme assay data
- Presented research to UCI's Ecology Department
- Received the Excellence in Research Award

Employment History

Graduate Research Assistant at Oregon State University (2019-2021)

- Conducted model analysis, literature review, and data generation, leading to the completion of MS thesis

Graduate Teaching Assistant at Oregon State University (2019-2021)

- Taught an undergraduate soil science lab of approximately forty students every quarter
- Taught several subjects within soil science, including chemistry, biology, soil analysis, and agricultural practices

Student Lab Technician at the University of California, Irvine (2017-2019)

- Supported research for the Loma Ridge Global Change Experiment
- Collected and analyzed soil samples and cataloged data used for several projects
- Trained undergraduate students in sampling, analysis, and wet-lab skills

Skills

- R programming language, GIS, Python, SQL (Database Queries), Statistical Analysis
- Field data collection (water, soil, plant tissue)
- Lab data analysis (ICP, GC-MS, fluorometry, light microscopy, wet-lab skills)
- Office Suite (Word, Excel, PowerPoint)
- Exemplary verbal and written skills: English, German (level B2)

Publications

Nitrogen - bedrock interactions regulate multi-element nutrient limitation and sustainability in forests, submitted 12/2022, ***Biogeochemistry***

Changes in Enzyme Activity in Response to Precipitation Change in Shrubland and Grassland Ecosystems 2019, ***UCI Undergraduate Journal***