
Education

Portland, OR	Reed College	Fall 2018 – Spring 2022
<ul style="list-style-type: none"> • B.A. Major in Biology, Minor in French. Graduating Spring 2022. In-major GPA: 4.0. • Relevant Coursework: Organic Chemistry; Leaves to Landscapes; Restoration Ecology; Computational Biology; Animal Behavior; Ecology, Evolution, and Plant-Human Interactions; Genes, Genetics, and Genomes; Data Science; Probability and Statistics; Environmental Studies; World Environmental History. 		

Research Experience

Research Fellow	Sandy River Gorge Field Study Fellowship	Summer 2020
<ul style="list-style-type: none"> • Awarded \$5,300 through the Sandy River Gorge Field Study Fellowship for summer research on urban tree health, mentored by Professor Aaron Ramirez at Reed College. • Utilized NDVI data extracted from PlanetScope satellite imagery, and tree data from the Portland park tree inventory to create a map of <i>Thuja plicata</i> (western redcedar) tree health in the Portland, OR metro area, and examined change in tree health from 2016 to 2019. • Developed and documented a reproducible methodology to assess individual tree health and dieback in an urban environment using remote sensing, providing a foundation for ongoing refinement and expansion of these datasets and this novel approach. • Presented final research findings at the Reed College Biology Lightning Talks 		
Fire Ecology Research	Biology 303 Field Work	Fall 2019
<ul style="list-style-type: none"> • Collaborated with The Nature Conservancy to conduct research on fire and management prescriptions in Ponderosa Pine dominated forests in southern Oregon. • Created an in-depth analysis of the impacts of different management prescriptions by collecting plant hydraulic conductivity data from ponderosa pine branches, soil samples, and stand metrics. • Presented the final collaborative report titled "ICO-F: A Novel, Adaptive Management Prescription for Ponderosa Pine-Forests in Sycan Marsh Preserve, Oregon" to The Nature Conservancy. 		

Work Experience

Data Science Consultant	Reed Instructional Technology Services	Fall 2020 - Present
<ul style="list-style-type: none"> • Assisted with data visualization and analysis on more than 20 faculty and student projects in R. • Utilized ArcGIS and QGIS to facilitate map creation and spatial analysis for class assistance as well as faculty and student projects. • Created a Data at Reed website with instructions and tutorials for basic data usage and visualization in R. 		
Research Intern	BSwing, inc.	Summer 2019
<ul style="list-style-type: none"> • Developed a comprehensive research protocol for aubreyAsks, a quantitative survey research program, including survey development, process flow design creation, participant process development and consumer engagement. • Completed secondary research and basic literary analysis on articles, studies, and meta-analyses related to diabetes and social prescriptions. Wrote up summaries of each article and presented findings to team. • Verified AI transcriptions of participant interview recordings. Compiled key findings and ideas from transcripts for further analysis. 		

Additional Experience and Awards

Library Page, Reed College Hauser Library, 2018 – present

Implementation and Data Management Intern, Metropolitan Alliance of Connected Communities, Summer 2019

Most Informative Data Visualization – Reed College Statistics Department Data Visualization Contest, Fall 2020

Best Pipetter – Prof. Suzy Renn's Animal Behavior Lab, Fall 2020

Commendation for Excellence in Scholarship, 2018-2019 and 2019-2020

Sandy River Gorge Field Study Fellowship, Summer 2020

Gion Family Scholarship, 2019-2020 and 2020-2021

Skills and Languages

- R, QGIS and ArcGIS, Python, Stata
- Proficient in French