

RYAN J. ERICKSON

Website: https://ryan-erickson911.github.io/personal_website/

1129 29th Ave. S. #2 ♦ Seattle, WA, 98144

GitHub: ryan-erickson911 ♦ LinkedIn: .com/in/ryan-ericksons-profile

EDUCATION

University of Colorado, Boulder

August 2021 - August 2025

Geography, MA

Thesis: *Integrating Machine Learning and Geo-statistics for High-Resolution Surface Ozone Mapping: A Case Study in Arizona*

University of California, Santa Barbara

2017-2020

Physics and Geography - GIS Emphasis, BA

Chaffey Community College

2015-2017

International General Educational Transfer Curriculum, AA

SPECIALIZATIONS

Programming and Code

Python, R, Javascript, SQL, Bash, MATLAB, XML/GML

Python Packages

Matplotlib, Miniconda, Sci-kit Learn, geemap, etc.

Software & Tools

Docker, Github, ArcGIS (ESRI Suite), QGIS, ENVI

Microsoft Office, HTML, LaTeX, Google Earth Engine

RELEVANT EXPERIENCE

NHC Graduate Research Assistant

January 2024 - May 2024

Natural Hazards Center - Lori Peek and Mary Painter

- Gathered more than 2,000 documents for further analysis and sorting
- Used SQL to search a myriad of 20+ disciplines on EBSCOHost, Web of Science, CU Scholar, and Google Scholar
- Developed a python script to access the above APIs (requests, rispy, pandas, numpy)

CIRES Graduate Research Assistant

January 2022 - August 2023

Cooperative Institute for Research in Environmental Sciences - Various

- Debugged and assessed FiredPy, a Python CLI program for classifying fire events with the MODIS Burned Area Product (Collection 6).
- Engineered new spatial strategies for solving spatial-temporal edge case scenarios.
- Collaborated with numerous top-level scientists and engineers
- Optimized 1TB+ of county-level data for acquisition and display.

SKILLS

Geographic information scientist

Data analysis, engineering, and solutions

Machine learning and artificial intelligence specialist

Long history of learning, advising, and leadership

FUNDING AND GRANT AWARDS

CIRES Early Career Assembly Member

May, 2022 - May, 2026

Climate Adaptation Scientists of Tomorrow Fellow

May, 2025 - Aug., 2025

CU Population Center (CUPC) Graduate Research Assistant

Aug, 2022 - Dec. 2022

Graduate Teaching Assistant

Aug, 2021 - Dec. 2024