RYAN J. ERICKSON

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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	Pandas, Matplotlib, Numpy, Scipy, Sci-kit Learn, Pytorch, Geopandas, GDAL/Rastario, geemap, Davitpy, Jupyter
Software & Tools	Docker, Github, ArcGIS (ESRI Suite), QGIS, ENVI Microsoft Office Suite, 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.
- Developed a python script to access and display search results from the APIs of EBSCOHost, Web of Science, CU Scholar, and Google Scholar (requests, rispy, pandas, numpy)

CIRES Graduate Research Assistant January 2022 - August 2023
Cooperative Institute for Research in Environmental Sciences - Natasha Stravos and Cibelle Amaral

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

SKILLS

Geographic information science data analysis, engineering, and solutions
Computer science and technology integrations
Machine learning and artificial intelligence specialist
Experienced teacher and leader

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*