

RYAN J. ERICKSON

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EDUCATION

University of Colorado, Boulder Geography, MA	Aug. 2021 - Dec. 2025
University of California, Santa Barbara Geography - GIS Emphasis, BA	Sep. 2018 - May 2020
University of California, Santa Barbara Physics, BA	Sep. 2017 - May 2020
Chaffey Community College International General Educational Transfer Curriculum (IGETC), AA	Aug. 2015 - Jun. 2017

WORK EXPERIENCE

Spatiotemporal Pattern Analysis and Research Laboratory <i>Master's Graduate Student</i>	Aug. 2021 - Oct. 2025 <i>Dr. Guofeng Cao</i>
· Created a 250m resolution surface ozone Python CLI for urban areas. · Authored a 150+ page thesis depicting five ML/AI models trained via EPA and satellite. · Awarded 6 research assistant positions during course of study.	
North Central Climate Adaptation Science Center <i>Research Assistant</i>	May 2025 - Aug. 2025 <i>Dr. Heather Yocum, Dr. Matthew Rossi</i>
· Presented a thermodynamic framework for revisiting the existence of a topographic signature of life. · Composed a blog highlighting available technology and future directions. · Met with future graduate students to offer professional advice and insights into graduate student life.	
Institute of Behavioral Science <i>Research Assistant</i>	Jan. 2022 - Dec. 2024 <i>Dr. Stefan Leyk, Dr. Colleen Reid</i>
· Translated code between Python and R to enhance interdisciplinary collaboration. · Developed a random forest model for surface O₃ exposures with respect to EPA monitors. · Assigned air pollution exposures for CO and NO₂ with EPA monitor measurements.	

SKILLS

Software

Atom, Docker, ENVI, ESRI Suite, GitHub, Google Cloud, MS Suite, QGIS, Visual Studio, Zotero

Syntax

AWS, Dart, DOS, Flutter, HTTP, JavaScript, LaTeX, MATLAB, Python, R, SQL, Wolfram, XML/GML

Geographic Information Science

Data science, cartographic software, spatial-temporal analysis, satellite technology

Computer Science

Workflow optimization/debugging, database management, program development

Quantitative Geography

Atmospheric Chemistry, Meteorology, Hydrology, Geomorphology

CERTIFICATIONS

FAA CFR Part-107 Remote Pilot	May 2024 - May 2026
SCUBA Certification	Aug. 2017 - current
Red Cross EMS First Responder	Jan. 2016 - Jan. 2024