

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 Physics, BA	Sep. 2017 - May 2020

WORK EXPERIENCE

Spatiotemporal Pattern Analysis and Research Laboratory <i>Research Assistant</i>	Aug. 2021 - Oct. 2025 <i>Dr. Guofeng Cao</i>
<ul style="list-style-type: none">· Deployed 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.· Advised laboratory research associates on data science, IT services, and workflow optimization methods.	
North Central Climate Adaptation Science Center <i>Research Assistant</i>	May 2025 - Aug. 2025 <i>Dr. Heather Yocum, Dr. Matthew Rossi</i>
<ul style="list-style-type: none">· Presented a thermodynamic framework for revisiting the existence of a topographic signature of life.· Composed a blog highlighting available technology and future directions.· Gathered, maintained, and distributed satellite data to present avenues of action.	
Institute of Behavioral Science <i>Research Assistant</i>	Jan. 2022 - Dec. 2024 <i>Dr. Stefan Leyk, Dr. Colleen Reid</i>
<ul style="list-style-type: none">· Translated data aggregation methods from Python to R which enhanced 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.	
Geography Department - University of Colorado, Boulder <i>Teaching Assistant</i>	Aug. 2021 - Aug. 2023 <i>Various</i>
<ul style="list-style-type: none">· Scheduled 30+ office hours a week for 250+ students to promote student development and interaction.· Restructured course material under supervision to update old ESRI programs with modern case studies.	

SKILLS

Software

Atom, Docker, Eclipse, ESRI Suite, GitHub, Google Cloud Platform, MS Suite, QGIS, Visual Studio

Syntax

Dart, Flutter, Java, HTML, JavaScript, LaTeX, Python, R, SQL, XML/GML

Geographic Information Science

Atmospheric chemistry, meteorology, hydrology, spatial-temporal analysis, remote sensing and UAS

Computer Science

Data science, ML/AI engineer, workflow optimization, information technology, database management

CERTIFICATIONS

UAS Remote Pilot (Part-107)	May 2024 - May 2026
SCUBA Certification	Aug. 2017