ZACHARY M. LABE, PH.D.

I am a trained atmospheric scientist aiming to address future climate risks and hazards through interdisciplinary partnerships.

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scholar.google.com/citations?user=E6cJPWcAAAAJ

BACKGROUND

- Developed & led innovative research on climate impacts & machine learning
- Published 33 peer-reviewed scientific articles (journals/technical reports)
- Presented more than **75 talks** for technical & non-specialist audiences
- Collaborated with local/federal stakeholders & educational science nonprofits
- Conducted over 100 interviews with local-to-international news media
- Visualize & communicate climate data on social media (100,000+ followers)
- Coordinated **6 sessions** at local workshops & international climate meetings
- Participated on 3 grant proposal panels & reviewed over 50 journal studies
- Highly experienced in working on large, interdisciplinary teams & mentoring
- Contributor to international global climate & weather assessments annually
- Honored as a Kayli Fellow of the National Academy of Sciences in 2019

RESEARCH & WORK EXPERIENCE

Research Physical Scientist (Federal)

NOAA Geophysical Fluid Dynamics Laboratory (GFDL)

m June 2024 - February 2025

Princeton, NJ

- Applying AI/ML methods to assess & develop high-resolution climate models for improving climate prediction, projection, and risk assessment

Postdoc to Associate Research Scholar

Princeton University & NOAA GFDL

May 2022 - June 2024

- Designed a framework to attribute high-impact climate hazards in near real-time using observations, models, and other data-driven statistical methods

Postdoc

Colorado State University

m June 2020 - April 2022

Fort Collins, CO

- Leveraged explainable machine learning techniques for identifying new patterns of anthropogenic climate change relative to those from natural variability
- Awarded a Sustainability Leadership Fellowship at Colorado State University with formal training in science communication, policy, and educational outreach

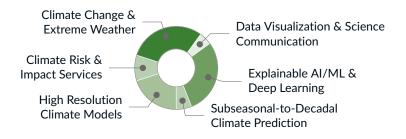
Graduate Research Assistant

University of California, Irvine

September 2015 - June 2020

- Implemented new modeling experiments to understand Arctic climate extremes
- Awarded National Science Foundation NRT Fellowship for data science

INTERESTS



EDUCATION

Ph.D. in Earth System Science

in linkedin.com/in/zacharvlabe

University of California, Irvine (CA)

m December 2017 - June 2020

M.Sc. in Earth System Science

University of California, Irvine (CA)

September 2015 - December 2017

B.Sc in Atmospheric Science

Cornell University (NY)

May 2015 - May 2015

- Distinction in Research
- Dvson Business Minor for Life Sciences

TECHNICAL SKILLS

Python AI/ML **Shell Scripting** Matlab R



STRENGTHS

· Python Tools

Keras | Matplotlib Numpy Cartopy Pandas Seaborn Scikit-learn | SciPy Statsmodels Tensorflow

Other Programming & Software

NCL NCO/CDO HTML LaTeX

High-Performance Computing

NCAR's Cheyenne/Yellowstone | Linux NOAA's RDHPCS | CMIP5/6 ESGF

BROADER SKILL SET

