

ZACHARY M. LABE, PH.D.

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🎓 scholar.google.com/citations?user=E6cJPWcAAAAJ

BACKGROUND

- Interested in climate attribution, risk/impact assessments, & linkages to policy
- Published **40 peer-reviewed** scientific articles (journal/technical report/book)
- Presented more than **100 talks** for technical & non-specialist audiences
- Conducted over **200 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
- Honored as a Kavli Fellow of the National Academy of Sciences in 2019

RESEARCH & WORK EXPERIENCE

Climate Scientist

Climate Central, Inc.

📅 May 2025 - Present

📍 Princeton, NJ

- Quantifying and communicating high-impact climate risks locally and regionally with observations, models, and advanced statistical approaches
- Support climate services by co-developing tools & resources to enhance resilience

Research Physical Scientist (Federal)

NOAA Geophysical Fluid Dynamics Laboratory (GFDL)

📅 June 2024 - April 2025

📍 Princeton, NJ

- Led innovative original research on climate impacts & AI/machine learning
- Collaborated with civil engineers to use climate data for infrastructure resiliency
- Contributed to international global climate & weather assessments annually
- Assessed & developed high-resolution global climate models for improving prediction, projection, and risk assessment of natural hazards

Postdoc to Associate Research Scholar

Princeton University & NOAA GFDL

📅 May 2022 - June 2024

📍 Princeton, NJ

- Designed a framework to attribute high-impact climate extremes in near real-time using observations, models, and other data-driven statistical methods
- Collaborated with local/federal stakeholders & educational science nonprofits

Postdoc

Colorado State University

📅 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

📍 Irvine, CA

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

EDUCATION

Ph.D. in Earth System Science

University of California, Irvine (CA)

📅 December 2017 - June 2020

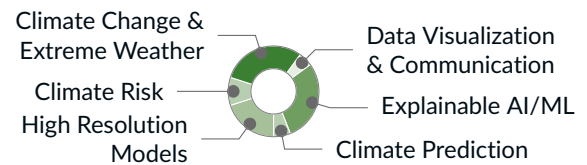
B.Sc in Atmospheric Science

Cornell University (NY)

📅 August 2011 - May 2015

- *Distinction in Research*
- Dyson Business Minor for Life Sciences

INTERESTS



TECHNICAL SKILLS

Python
AI/ML
Shell Scripting
Matlab
R



STRENGTHS

• Python Tools



• Other Programming & Software



• High-Performance Computing



BROADER SKILL SET

