# ZACHARY M. LABE, PH.D.

I am a climate scientist trying to visualize the signal from a lot of noise.

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### **BACKGROUND**

- Interested in the role of climate change on prediction, extremes, & variability
- Published 21 peer-reviewed scientific articles (journals/technical reports)
- Contributor to several international annual climate assessments
- Experience in mentoring undergraduate summer research projects
- Presented >50 talks for both technical and non-specialist audiences
- >100 interviews with local to international media outlets on climate change
- Communicate weather/climate data on Twitter (>1 million views per month)
- Selected as a Kavli Fellow of the National Academy of Sciences in 2019

### RESEARCH & WORK EXPERIENCE

### Postdoctoral Research Associate

#### **Princeton University & NOAA GFDL**

May 2022 - Ongoing

**Princeton**, NJ

 Developing a framework to attribute extreme events in near real-time using climate models and other data-driven methods, like machine learning

#### Postdoctoral Researcher

#### **Colorado State University**

m June 2020 - April 2022

**♀** Fort Collins, CO

- Leveraged new explainable machine learning methods for extracting patterns of forced climate change from internal variability
- Awarded a Sustainability Leadership Fellowship at Colorado State University with formal training in science communication, policy, and outreach

### **Graduate Research Assistant**

#### University of California, Irvine

**September 2015 - June 2020** 

- **◊** Irvine, CA
- Assessed influences of Arctic amplification and Arctic sea ice on extreme weather by designing novel climate model experiments
- Awarded National Science Foundation NRT-DESE fellowship in the Machine Learning and Physical Sciences Program at the University of California, Irvine
- Teaching Assistant Courses: Earth System Physics, Fundamental Processes in Earth and Environmental Studies, Terrestrial Hydrology, Weather Analysis

### Undergraduate Research Assistant

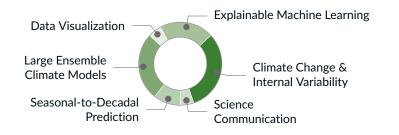
### **Cornell University**

## April 2014 - August 2015

**◊** Ithaca, NY

- Evaluated the magnitude, frequency, and dynamics of phenological spring onset using community science observations
- Teaching Assistant Courses: Basic Meteorology Lab, Computer Programming and Meteorological Software

# **INTERESTS**



### **EDUCATION**

### Ph.D. in Earth System Science

### University of California, Irvine

# September 2017 - May 2020

 Thesis: The effects of Arctic sea-ice thickness loss and stratospheric variability on mid-latitude cold spells

### M.Sc. in Earth System Science

### University of California, Irvine

🛗 September 2015 – September 2017

### B.Sc in Atmospheric Science

### **Cornell University**

**Marcoll August 2011 - May 2015** 

- Distinction in Research
- Dyson Business Minor for Life Sciences

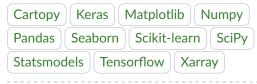
### **TECHNICAL SKILLS**

Python Matlab bash R



# **STRENGTHS**

Python Tools



Other Programming & Software

Git HTML NCL NCO/CDO LaTeX

• High-Performance Computing

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

## **BROADER SKILL SET**

