

ROBERT R. FORD

Department of Atmospheric & Environmental Sciences (DAES)

University at Albany, SUNY

rford2@albany.edu ◇ r-ford.github.io

EDUCATION

Ph.D., Atmospheric Science, *in progress*

Expected 2027

University at Albany, SUNY, Albany, NY

Advisor: Brian Rose

B.S., Applied Physics & Mathematics

2021

Stockton University, Galloway, NJ

RESEARCH EXPERIENCE

Graduate Research Assistant

2021 –

University at Albany, SUNY

Advisor: Brian Rose

- Using climate models to explore how Southern Ocean temperature trends and variability impact climate feedbacks and sensitivity
- Developing open-source geoscientific Python tutorials through [Project Pythia](#)

Undergraduate Researcher

2019 – 2021

Stockton University

Advisor: Russell Manson

- Modeled solute transport in streams and analyzed the error and stability of numerical schemes

PUBLICATIONS

1. **Ford, R. R.**, B. E. J. Rose, and M. C. Rencurrel, 2025: Transient Climate Sensitivity Shaped by Low Cloud Changes Remotely Driven by Southern Ocean Processes. *Journal of Climate*, **38**, 797–813, <https://doi.org/10.1175/JCLI-D-24-0164.1>.

PRESENTATIONS

First-authored presentations

3. **Ford, R. R.**, and B. E. J. Rose, 2025: The Role of Low-Frequency Variability and Open-Ocean Polynyas in Southern Ocean SST Trends, AMS 18th Conference on Polar Meteorology and Oceanography, Denver, CO.
2. **Ford, R.**, and B. E. J. Rose, 2023: Transient climate sensitivity shaped by Antarctic sea ice changes: exploring links between ocean heat uptake patterns, sea ice changes, and mid-latitude cloud cover, AGU Fall Meeting, San Francisco, CA.
1. **Ford, R.**, and J. R. Manson, 2020: Solute transport modeling using a Preissmann scheme, 6th IAHR Europe Congress, virtual.

Co-authored presentations can be found on [my Google Scholar](#).

SERVICE & OUTREACH

DAES, University at Albany, SUNY

- Climate Group seminar co-organizer
- Volunteer undergraduate tutoring (program lead 2024 – 2025)

2024 –

2022 –

Climatematch Academy

- Contributed presentations on climate modeling 2024

HONORS & AWARDS

Paul Saraduke Jr. Memorial Physics Award, Stockton University	2021
Jason Shulman Award for Excellence in Physics Research, Stockton University	2020
Foundation Scholarship, Stockton University	2020

WORKSHOPS & PROFESSIONAL TRAINING

OceanHackWeek 2024, Bigelow Laboratory for Ocean Sciences, East Boothbay, ME	August 2024
Project Pythia Cook-off 2024, NCAR, virtual	June 2024
Project Pythia Cook-off 2023, NCAR, virtual	June 2023
CESM Tutorial 2022, NCAR, Boulder, CO	August 2022
The Pattern Effect: Coupling of SST Patterns, Radiative Feedbacks, and Climate Sensitivity Workshop, US CLIVAR, virtual	May 2022

TECHNICAL SKILLS

Languages and tools: Python, Git, Linux, \LaTeX
Models: Community Earth System Model (CESM) versions 1 and 2

PROFESSIONAL AFFILIATIONS

American Geophysical Union
American Meteorological Society