

ROBERT R. FORD

Department of Atmospheric & Environmental Sciences (DAES)

University at Albany, SUNY

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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

EXPERIENCE

University at Albany, SUNY

2021 –

Graduate Research Assistant

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](#)

Stockton University

2019 – 2021

Undergraduate Researcher

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

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, 2021: 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 Climate Group seminar co-organizer

2024 –

DAES undergraduate tutoring (program lead 2024 –)

2022 –

Contributed presentations on climate modeling to [Climatematch Academy](#)

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

Python, Git, Linux
Community Earth System Model

PROFESSIONAL AFFILIATIONS

American Geophysical Union
American Meteorological Society