

Robert R. Ford

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Department of Atmospheric & Environmental Sciences
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Education

PhD, Climate Science, University at Albany, SUNY, Expected 2027
Advisor: Brian Rose
BS, Applied Physics & Mathematics, Stockton University, 2021

Academic Employment

Research Assistant, University at Albany, SUNY, 2021–Present

Publications

3. **Ford, R. R.** and B. E. J. Rose: Mechanisms for a Southern Ocean Multidecadal Oscillator, *In prep. for Geophysical Research Letters*.
2. Rose, B. E. J., **R. R. Ford**, A. Banihirwe, M. D. Camron, J. Clyne, O. Eroglu, K. FitzGerald, M. A. Grover, J. Kent, R. May, K. Paul, K. R. Tyle, and A. Zacharias: Pythia Foundations: A community learning resource for Python-based computing in the geosciences. *Submitted to Journal of Open Source Education*.
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>.

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 (oral presentation), AMS 18th Conference on Polar Meteorology and Oceanography.
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 (oral presentation), AGU Fall Meeting.
1. **Ford, R.**, and J. R. Manson, 2020: Solute transport modeling using a Preissmann scheme (oral presentation), 6th IAHR Europe Congress.

Teaching

Climatematch Academy

Teaching Assistant, Computational Tools for Climate Science, Summer 2025

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

Service & Outreach

Department of Atmospheric & Environmental Sciences, University at Albany, SUNY

Co-organizer, Climate Group seminar, 2024–Present

Mentor, Undergraduate–graduate mentorship program, 2024–Present

Tutor, Volunteer undergraduate tutoring (program lead 2024–2025), 2022–Present

Project Pythia

Co-organizer, Pythia Cook-off hackathons, 2023–2025

Climatematch Academy

Contributed presentations on climate modeling, 2024

Technical Skills

Languages & tools: Python, L^AT_EX, Git, Bash, NCO

Models: Community Earth System Model (CESM) versions 1 and 2

Professional Affiliations

American Geophysical Union

American Meteorological Society