Robert R. Ford

Graduate Research Assistant / PhD Candidate
Department of Atmospheric & Environmental Sciences
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Education

Ph.D., Climate Science, University at Albany, SUNY, Expected 2027

  Advisor: Brian Rose

B.S., Applied Physics & Mathematics, Stockton University, 2021

Academic Employment

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

Publications

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, 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 Experience

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

Climatematch Academy

Contributed presentations on climate modeling, 2024

Technical Skills

Languages & tools: Python, LaTeX, Git, Bash, NCO

Models: Community Earth System Model (CESM)

Professional Affiliations

American Geophysical Union

American Meteorological Society