ROBERT R. FORD

Department of Atmospheric & Environmental Sciences (DAES) University at Albany, SUNY

EDUCATION

Ph.D., Atmospheric Science, in progress

Expected 2027

University at Albany, SUNY, Albany, NY

Advisor: Brian Rose

B.S., Applied Physics & Mathematics

Stockton University, Galloway, NJ

2021

RESEARCH EXPERIENCE

Graduate Research Assistant

2021 -

University at Albany, SUNY

- · Exploring multidecadal Southern Ocean variability and trends in climate models
- · Developing open-source geoscientific Python tutorials through Project Pythia

Undergraduate Researcher

2019 - 2021

Advisor: Brian Rose

Stockton University

Advisor: Russell Manson

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

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.

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, 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 (oral presentation), AGU Fall Meeting, San Francisco, CA.
- 1. **Ford, R.**, and J. R. Manson, 2020: Solute transport modeling using a Preissmann scheme (oral presentation), 6th IAHR Europe Congress, virtual.

TEACHING EXPERIENCE

Climatematch Academy

· Teaching Assistant, Computational Tools for Climate Science

Summer 2025

SERVICE & OUTREACH

2024 - 2024 - 2022 -
2024
2022
202
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202
202
August 202
June 202
June 202
August 202
May 202
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PROFESSIONAL AFFILIATIONS

American Geophysical Union American Meteorological Society

Last updated: July 17, 2025