

# Robert R. Ford

Department of Atmospheric & Environmental Sciences  
University at Albany, SUNY, ETEC 406  
1220 Washington Ave, Albany, NY 12203  
Email: [rford2@albany.edu](mailto:rford2@albany.edu)  
Web: [r-ford.github.io](https://r-ford.github.io)

## EDUCATION

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

## RESEARCH EXPERIENCE

Research Assistant, University at Albany, SUNY Advisor: B. E. J. Rose	2021 – Present
Undergraduate Researcher, Stockton University Advisor: J. R. Manson	2019 – 2021

## PUBLICATIONS

*Submitted, under review, etc.*

1. Rose, B. E. J., **R. R. Ford**, A. Banihirwe, M. D. Camron, J. Clyne, O. Eroglu, K. FitzGerald, B. Freeman, 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. *In revision for Journal of Open Source Education*, <https://jose.theoj.org/papers/6ad4fe1df16342a33f750b43772c1b15>.

*Published*

2. **Ford, R. R.**, and B. E. J. Rose, 2026: A Southern Ocean Multidecadal Oscillator Forced by Deep Convection. *Geophysical Research Letters*, **53**, e2025GL120643, <https://doi.org/10.1029/2025GL120643>.
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>.

## CONFERENCE PRESENTATIONS

4. **Ford, R.**, and B. E. J. Rose, 2026: Exploring Mechanisms for Southern Ocean Convective Variability in a High-Resolution GCM [poster], Ocean Sciences Meeting.
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], 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], AGU Fall Meeting.

1. **Ford, R.**, and J. R. Manson, 2021: Solute transport modeling using a Preissmann scheme [oral], 6th IAHR Europe Congress.

## TEACHING

Guest Lecturer, Climate Variability and Predictability, University at Albany, SUNY	Spring 2026
TA, Computational Tools for Climate Science, Climatedatch Academy	Summer 2025
TA, Physics for Life Sciences I/II, Stockton University	Fall 2019 – Spring 2021

## 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*

Organizer, Climate Group seminar	2024 – Present
Mentor, Undergraduate–graduate mentorship program	2024 – Present
Tutor, Volunteer undergraduate tutoring (program lead 2024 – 2025)	2022 – 2025

*Professional*

Organizer, Project Pythia Cook-off workshops held at NCAR	2023 – 2025
Contributed presentations on climate modeling to Climatedatch Academy	2024

## TECHNICAL SKILLS

*Programming & tools:* Python, Git, Bash, NCO, L<sup>A</sup>T<sub>E</sub>X

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

## PROFESSIONAL AFFILIATIONS

American Geophysical Union  
 American Meteorological Society