

Robert R. Ford

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Education

- 2021– PhD, Atmospheric Science (*in progress*), University at Albany, SUNY
2017–2021 BS, Applied Physics & Mathematics, Stockton University

Experience

- 2021– Graduate Research Assistant, University at Albany, SUNY (Advisor: Brian Rose)
- Using climate models to investigate the coupling of ocean heat uptake, radiative feedbacks, and climate sensitivity
 - Assisting in development of open-source geoscience Python tutorials ([Project Pythia](#))
- 2019–2021 Undergraduate Researcher, Stockton University (Advisor: Russell Manson)
- Modeled solute transport in streams and analyzed the error and stability of numerical schemes

Presentations

PRESENTED

- 2023/12 **R. Ford** and B. E. J. Rose, 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
- 2021/02 **R. Ford** and J. R. Manson, Solute transport modeling using a Preissmann scheme (oral), 6th IAHR Europe Congress

CONTRIBUTED

- 2023/12 J. Kent, J. Clyne, B. E. J. Rose, K. Tyle, R. May, M. Grover, O. Eroglu, J. Munroe, D. Camron, and **R. Ford**, Project Pythia: Empowering Geoscientists through Open-Source, Open-Science Collaboration (oral), AGU Fall Meeting

- 2023/12 B. E. J. Rose, J. Clyne, R. May, J. Munroe, A. Synder, O. Eroglu, K. Tyle, D. Camron, M. Grover, J. Kent, and R. Ford, The Project Pythia Cookbook Initiative: Building an Inclusive Geoscience Community through Accessible, Reusable, Reproducible Workflows (oral), AGU Fall Meeting
- 2022/12 J. Kent, D. Camron, J. Clyne, R. Ford, M. Grover, R. May, K. Paul, B. E. J. Rose, and K. Tyle, Project Pythia: A Pangeo Community Tool for Open-Source Education (poster), AGU Fall Meeting
- 2022/12 K. Tyle, D. Camron, J. Clyne, R. Ford, M. Grover, J. Kent, R. May, K. Paul, and B. E. J. Rose, Project Pythia: Transforming Software Engineering Education for GeoScience (poster), AGU Fall Meeting
- 2022/01 D. Camron, A. Banihirwe, J. Clyne, N. Corbin, O. Eroglu, R. Ford, M. A. Grover, J. Kent, A. Kootz, M. Long, R. M. May, K. Paul, B. E. J. Rose, K. R. Tyle, M. Sizemore, and A. Zacharias, Project Pythia Community Update (oral), AMS 12th Symposium on Advances in Modeling and Analysis Using Python
- 2022/01 K. R. Tyle, B. E. J. Rose, J. Clyne, K. Paul, J. Kent, M. Grover, D. Camron, R. M. May, and R. Ford, Leveraging Project Pythia in an Advanced Geoscience Analysis and Visualization Course (oral), AMS 31st Conference on Education

Honors & Awards

- 2021 Paul Saraduke Jr. Memorial Physics Award, Stockton University
- 2020 Jason Shulman Award for Excellence in Physics Research, Stockton University
- 2020 Foundation Scholarship, Stockton University

Workshops

- 2023/06 Project Pythia Cook-off, NCAR, *virtual*
- 2022/08 2022 CESM Tutorial, NCAR, Boulder, CO
- 2022/06 Project Pythia Hackathon, NCAR, Boulder, CO
- 2022/05 The Pattern Effect: Coupling of SST Patterns, Radiative Feedbacks, and Climate Sensitivity Workshop, US CLIVAR, *virtual*

Technical Skills

Python, Git, Linux
Community Earth System Model

Professional Affiliations

American Geophysical Union
American Meteorological Society

Last updated: December 17, 2023