

Daniel M. Gilford, PhD

POSTDOCTORAL ASSOCIATE AT RUTGERS UNIVERSITY

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Education

Massachusetts Institute of Technology

DOCTOR OF PHILOSOPHY (PH.D.), ATMOSPHERIC SCIENCE

Thesis: [The Tropopause Region Thermal Structure and Tropical Cyclones](#)

Cambridge, MA

2018

The Florida State University

BACHELOR OF SCIENCE (B. S.), METEOROLOGY

Minor: Applied Mathematics, Summa Cum Laude, Cumulative GPA: 4.0

Tallahassee, FL

2012

Honors & Awards

- 2018 **Outstanding Student Paper Award**, American Geophysical Union
- 2014-2016 **Earth and Space Science Fellowship**, National Aeronautics and Space Administration
- 2012 **AMS Graduate Fellowship**, American Meteorological Society
- 2010 **Ernest F. Hollings Undergraduate Scholarship**, National Oceanic and Atmospheric Administration

Professional & Teaching Experience

- 2018-now **Postdoctoral Associate**, Rutgers University, Department of Earth and Planetary Science New Brunswick, NJ
- Spr. 2016 **Teaching Assistant**, Global Warming Science - 12.340x | MITx - EAPS Department Cambridge, MA
- 2013-2015 **Lecturer**, Climate Change Science | MIT IAP - Joint Program the Science & Policy of Global Change Cambridge, MA
- 2010-2012 **Undergraduate Research Assistant**, Center for Ocean Atmospheric Prediction Studies Tallahassee, FL

Appointments and Committees

- 2019-2020 **Chair**, Susan Solomon Symposium at the AMS Centennial Annual Meeting Boston, MA
- 2014-2016 **Lead Coordinator**, Student Seminar of the Joint Program on the Science and Policy of Global Change Cambridge, MA
- 2013-2016 **Student Member**, Committee on Climate Variability and Change, American Meteorological Society
- '13*, '15*, '17 **Organizing Committee Member & Session Chair***, Graduate Climate Conference Woods Hole, MA

Publications

- Gilford, D. M.**, S. Solomon, and K. A. Emanuel, 2019: Seasonal Cycles of Along-Track Tropical Cyclone Maximum Intensity. *Mon. Wea. Rev.*, *accepted*.
- Gilford, D. M.**, S. Solomon, and K. A. Emanuel, 2017: On the Seasonal Cycles of Tropical Cyclone Potential Intensity. *J. Climate*, **30**, 6085–6096.
- Zickfeld, K., S. Solomon, and **D. M. Gilford**, 2017: Centuries of Thermal Sea Level Rise Due to Anthropogenic Emissions of Short-Lived Greenhouse Gases. *PNAS*, **114**, 657–662.
- Gilford, D. M.**, and S. Solomon, 2016: Radiative Effects of Stratospheric Seasonal Cycles in the Tropical Upper Troposphere and Lower Stratosphere. *J. Climate*, **30**, 2769–2783.
- Gilford, D. M.**, S. Solomon, and R. W. Portmann, 2016: Radiative Impacts of the 2011 Abrupt Drops in Water Vapor and Ozone in the Tropical Tropopause Layer. *J. Climate*, **29**, 595–612.
- Gilford, D. M.**, S. R. Smith, M. L. Griffin, and A. Arguez, 2012: Southeastern United States Daily Temperature Ranges Associated with the El Niño–Southern Oscillation, *J. Appl. Meteor. and Climatol.*, **52**, 2434–2449.

Technical Skills

- Programming** Python, MATLAB, IDL, FORTRAN, GrADS, UNIX, Shell scripting, Git, NCAR Supercomputing
- Models & Data** Ice-sheet modeling, CESM, Tide Gauges, CMIP5, Reanalyses, Sondes, TC Tracks, WDI, GPS & Satellite Atmos. Meas.

A list of public presentations is available upon request.