

Daniel M. Gilford, PhD

✉ dgilford@climatecentral.org | 🌐 danielgilford.com | 🐦 @danielgilford

Education

Massachusetts Institute of Technology

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

Cambridge, MA

2018

The Florida State University

BACHELOR OF SCIENCE (B. S.), METEOROLOGY

Tallahassee, FL

2012

Professional & Teaching Experience

2020-now	Climate Scientist (formerly, Sea-level scientist) , Climate Central	Princeton, NJ
2018-2021	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
Fall 2014	Teaching Assistant , Discover Earth Atmospheric and Planetary Sciences MIT - EAPS Department	Cambridge, MA
2013-2015	Lecturer , Climate Change Science MIT IAP - Joint Program the Science & Policy of Global Change	Cambridge, MA
Sum. 2011	Hollings Scholarship Summer Intern , NOAA's National Climatic Data Center (NCDC)	Asheville, NC
2010-2012	Undergraduate Research Assistant , Center for Ocean Atmospheric Prediction Studies	Tallahassee, FL

Publications

- Strauss, B. H., P. Orton, K. Bittermann, M. K. Buchanan, **D. M. Gilford**, R. E. Kopp, S. Kulp, C. Massey, H. de Moel, S. Vinogradov, 2021: Economic Damages from Hurricane Sandy Attributable to Sea Level Rise Caused by Anthropogenic Climate Change. *Nature Comm.*
- DeConto, R. M., D. Pollard, D., R. B. Alley, I. Velicogna, E. Gasson, N. Gomez, S. Sadia, A. Condron, **D. M. Gilford**, E. Ashe, R. E. Kopp, D. Li, and A. Dutton, 2021: The Paris Climate Agreement and Future Sea Level Rise from Antarctica. *Nature*.
- Gilford, D. M.**, 2021: pyPI (v1.3): Tropical Cyclone Potential Intensity Calculations in Python. *Geosci. Model Dev.*, **14**, 2351–2369.
- Gilford, D. M.**, S. Coulson, and V. C. Alvarez, 2020: Paleo Sea-level Science is Advancing through Earth- and Ice-Process Insights, but Key Questions Linger. *PAGES Magazine*, **28:2**, 67.
- Gilford, D. M.**, E. L. Ashe, R. E. Kopp, R. M. DeConto, D. Pollard, and A. Rovere, 2020: Could the Last Interglacial Constrain Projections of Future Antarctic Ice Mass Loss and Sea-level Rise? *JGR-Earth Surface*, **125**, e2019JF005418.
- Hamlington, B. D., (and the NASA Sea Level Change Science Team, including **D. M. Gilford**), 2020: Understanding of Contemporary Regional Sea-level Change and the Implications for the Future. *Rev. Geophys.*, **58**, e2019RG000672.
- Shields, S., A. A. Wing, and **D. M. Gilford**, 2020: A Global Analysis of Interannual Variability of Potential and Actual Tropical Cyclone Intensities. *Geophys. Res. Lett.*, **47**, e2020GL089512.
- Gilford, D. M.**, S. Moser, R. DePodwin, R. Moulton, and S. Watson, 2019: The Emotional Toll of Climate Change on Science Professionals. *Eos*, **100**, published online 06 December 2019.
- Gilford, D. M.**, S. Solomon, and K. A. Emanuel, 2019: Seasonal Cycles of Along-Track Tropical Cyclone Maximum Intensity. *Mon. Wea. Rev.*, **147**, 2417–2432.
- 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, 2013: Southeastern United States Daily Temperature Ranges Associated with the El Niño–Southern Oscillation, *J. Appl. Meteor. and Climatol.*, **52**, 2434–2449.

Honors & Awards

- | | |
|-----------|---|
| 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 |

A list of scientific service, public presentations, and professional skills and training is available upon request.