

Current position

January 2019 – present **Environmental Fellow**
Center for the Environment, Harvard University

Education

2013 – 2018	UC Berkeley , Berkeley, CA Advisor: David M. Romps	Ph.D., Earth and Planetary Science
2008 – 2012	Haverford College , Haverford, PA Magna cum laude, Phi Beta Kappa Minor: Philosophy	B.Sc., Physics

Publications (9 total, 6 first-authored)

- 2019 **J.T. Seeley**, N. Jeevanjee, and D. M. Romps, “FAT or FiTT: Are anvil clouds or the tropopause temperature-invariant?”, *Geophysical Research Letters*, vol. 46, doi:10.1029/2018GL080096, 2019.
- 2019 **J.T. Seeley**, N. Jeevanjee, W. L. Langhans, and D. M. Romps, “Formation of tropical anvil clouds by slow evaporation”, *Geophysical Research Letters*, vol. 46, doi:10.1029/2018GL080747, 2019.
- 2016 **J.T. Seeley** and D. M. Romps, “Tropical cloud buoyancy is the same in a world with or without ice”, *Geophysical Research Letters*, vol. 43, doi:10.1002/2016GL068583, 2016.
- 2015 **J.T. Seeley** and D. M. Romps, “Why does tropical convective available potential energy (CAPE) increase with warming?”, *Geophysical Research Letters*, vol. 42, doi:10.1002/2015GL066199, 2015.
- 2015 **J.T. Seeley** and D. M. Romps, “The effect of global warming on severe thunderstorms in the United States”, *Journal of Climate*, vol. 28, 2443–2458, 2015.
- 2015 A. Tranter, S. Sofia, **J.T. Seeley**, M. Kaicher, J. McClean, R. Babbush, P. V. Coveney, F. Mintert, F. Wilhelm, P. J. Love, “The Bravyi-Kitaev transformation: properties and applications”, *International Journal of Quantum Chemistry*, vol. 115, no. 19, 1431–1441, 2015.
- 2014 D.M. Romps, **J.T. Seeley**, D. Volaro, J. Molinari, “Projected increase in lightning strikes in the United States due to global warming”, *Science*, vol. 346, no. 6211, 851–854, 2014.

- 2012 **J.T. Seeley**, M. Richard, P. Love, “The Bravyi-Kitaev transformation for quantum computation of electronic structure”, *Journal of Chemical Physics*, vol. 137, 2012.
- 2012 S. Yuan, M. Kim, **J.T. Seeley**, J.C. Lee, S. Lal, S.L. Cooper, “Inelastic light scattering measurements of a pressure-induced quantum liquid in KCuF_3 ”, *Physical Review Letters*, vol. 109, 2012.

Honors

- February 2018 **T. C. Chamberlin Postdoctoral Fellowship (declined)**
Department of the Geophysical Sciences, University of Chicago
- February 2018 **Bernoulli Postdoctoral Fellowship (declined)**
Department of Physics, University of Oxford; Center for Space and Habitability, University of Bern
- December 2017 **Outstanding student paper award (OSPA)**
American Geophysical Union (AGU) Fall Meeting 2017
- June 2017 **Best oral presentation by a student**
21st Conference on Atmospheric and Oceanic Fluid Dynamics
- April 2014 **Graduate Research Fellowship**
National Science Foundation
- January 2013 **Berkeley Graduate Fellowship**
University of California, Berkeley
- May 2012 **Louis B. Green Prize in Physics**
Haverford College

Oral presentations

- December 12, 2018 “Formation of tropical anvil clouds by slow evaporation” (invited)
American Geophysical Union (AGU) Fall Meeting 2018
Walter E. Washington Convention Center, Washington, D.C.
- November 29, 2018 “Why don’t puddles dry on cold days, and what does that have to do with clouds and climate?” (exit seminar)
Department of Earth and Planetary Science, UC Berkeley
McCone Hall, Berkeley, CA
- April 19, 2018 “FiTT or FAT? Anvil clouds and the tropopause in radiative-convective equilibrium”
33rd Conference on Hurricanes and Tropical Meteorology
Sawgrass Marriott, Ponte Vedra, FL

January 10, 2018 “Disentangling anvil clouds from the tropopause” (invited)
Department of the Geophysical Sciences, University of Chicago
Henry Hinds Laboratory, Chicago, IL

December 13, 2017 “On the existence of tropical anvil clouds”
American Geophysical Union (AGU) Fall Meeting 2017
Ernest N. Morial Convention Center, New Orleans, LA
Winner, “Outstanding Student Paper Award (OSPA)”

June 27, 2017 “A new paradigm for tropical anvil clouds”
21st Conference on Atmospheric and Oceanic Fluid Dynamics
Marriott Portland Downtown Waterfront, Portland, OR
Winner, “Best oral presentation by a student”

April 18, 2016 “The shape of CAPE: undilute parcel buoyancy in the tropics”
32nd Conference on Hurricanes and Tropical Meteorology
The Condado Hilton Plaza, San Juan, PR

Teaching

Fall 2017, 2018 **Graduate Student Reader**
EPS 7: Climate Change (UC Berkeley)

Spring 2015 **Graduate Student Instructor**
L&S 70b: Global Warming (UC Berkeley)

Fall 2014 **Graduate Student Instructor**
EPS 181: Atmospheric Physics and Dynamics (UC Berkeley)

Fall 2012 **Teaching Assistant**
PHYS 213: Thermal Physics (University of Illinois at Urbana-Champaign)