

## Current

2011 – Present      **Assistant Professor**  
Department of Earth and Planetary Science  
University of California, Berkeley, CA

**Faculty Scientist**  
Earth Sciences Division  
Lawrence Berkeley National Laboratory, Berkeley, CA

## Education

1999 – 2005      **Harvard University**, Cambridge, MA      **Ph.D., Physics**  
Thesis: Holography and related topics in string theory

1995 – 1999      **Yale University**, New Haven, CT      **B.S./M.S., Physics**  
Magna cum laude      **B.S., Mathematics**

## Postdoctoral positions

2008 – 2010      **Research Associate**  
Department of Earth and Planetary Sciences, Harvard University, MA

2006 – 2008      **Environmental Fellow**  
Center for the Environment, Harvard University, MA

2005 – 2006      **Postdoctoral Fellow**  
Woods Hole Research Center, MA

## Publications

2011      D.M. **Romps**, “Convective momentum transport and its parameterization,”  
Journal of the Atmospheric Sciences, in review, 2011

2011      D.M. **Romps**, Z. Kuang, “A transient matrix for moist convection,”  
Journal of the Atmospheric Sciences, vol. 68, no. 9, 2009–2025, 2011

2011      D.M. **Romps**, “Response of tropical precipitation to global warming,”  
Journal of the Atmospheric Sciences, vol. 68, no. 1, 123–138, 2011

2010      P.N. Blossey, Z. Kuang, D.M. **Romps**, “Isotopic composition of water in the tropical  
tropopause layer in cloud-resolving simulations of an idealized tropical circulation,”  
Journal of Geophysical Research, vol. 115, D24309, 2010

2010      D.M. **Romps**, “A direct measure of entrainment,”  
Journal of the Atmospheric Sciences, vol. 67, no. 6, 1908–1927, 2010

2010      D.M. **Romps**, Z. Kuang “Nature versus nurture in shallow convection,”  
Journal of the Atmospheric Sciences, vol. 67, no. 5, 1655–1666, 2010

2010      D.M. **Romps**, Z. Kuang “Do undiluted convective plumes exist in the upper tropical  
troposphere?,” Journal of the Atmospheric Sciences, vol. 67, no. 2, 468–484, 2010

2009      D.M. **Romps**, C.D. Holmes, K.Z. House, B.G. Lee, M.T. Winkler, “The case against  
nuclear reprocessing,” Bulletin of the Atomic Scientists, vol. 65, no. 6, 36–41, 2009

- 2009 D.M. **Romps**, Z. Kuang, “Overshooting convection in tropical cyclones,”  
Geophysical Research Letters, vol. 36, L09804, 2009
- 2008 D.M. **Romps**, “The dry-entropy budget of a moist atmosphere,”  
Journal of Atmospheric Sciences, vol. 65, no. 12, 3779–3799, 2008
- 2005 A. Simons, A. Strominger, D.M. Thompson (**Romps**), X. Yin, “Supersymmetric  
branes in  $\text{AdS}_2 \times \text{S}^2 \times \text{CY}_3$ ,” Physical Review D, vol. 71, no. 6, 066008, 2005,  
hep-th/0406121
- 2004 D.M. Thompson (**Romps**), “AdS solutions to the 2D type 0A effective action,”  
Physical Review D, vol. 70, no. 10, 106001, 2004, hep-th/0312156
- 2004 A. Strominger, D.M. Thompson (**Romps**), “Quantum Bousso bound,”  
Physical Review D, vol. 70, no. 4, 044007, 2004, hep-th/0303067
- 2002 D.M. Thompson (**Romps**), “Descent relations in type 0A/0B,”  
Physical Review D, vol. 65, no. 10, 106005, 2002, hep-th/0105314