Hannah S. Rabinowitz

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EDUCATION

Lamont-Doherty Earth Observatory of Columbia University — New York, NY
Examining the seismogenic potential of subducting sediments — *September 2012–Present*
Ph.D. Candidate *(Expected graduation November 2017)*
Major: Tectonophysics
Advisory committee: Heather M. Savage, Ben K. Holtzman, Christopher H. Scholz

Washington University in St. Louis — St. Louis, MO
Reactivation of pseudotachylite-bearing faulted rocks (Undergraduate thesis) — *August 2008–May 2012*
Bachelor of Arts, May 2012
Major: Earth and Planetary Science, Geophysics Track
Minor: Economics

GRANTS AND AWARDS

Bruce C. Heezen Memorial Prize
Department of Earth and Environmental Science, Columbia University
Recipient of a departmental award for outstanding academic and research achievement in the Earth Sciences (2016)

National Science Foundation Graduate Research Fellowship
National Science Foundation (NSF)
Recipient of a 3-year fellowship from NSF, providing tuition and stipend support
Investigating fault strength during the 2011 Tohoku Earthquake (2014–2017)

Schlanger Ocean Drilling Fellowship Award
Integrated Ocean Drilling Program (IODP)
Recipient of a year-long $30,000 fellowship from IODP
Determining the Frictional Temperature Rise During the 2011 Tohoku Earthquake (2013–2014)

AGU Outstanding Student Presentation Award
American Geophysical Union
Recipient of an award for my poster presentation at the 2014 AGU Fall Meeting
Detecting seismic signatures in the rock record at the Japan Trench

Carl Storm Underrepresented Minority (CSURM) Fellowship
Gordon Research Conferences
Grant to attend the Gordon Research Conference in Rock Mechanics in August, 2012

The Courtney Werner Memorial Prize
Department of Earth and Planetary Sciences, Washington University in St. Louis
Prize awarded to an undergraduate who has demonstrated academic achievement (2012)

PUBLICATIONS

4. **Rabinowitz, H.S.**, P.J. Polissar, H.M. Savage, 2017. Reaction kinetics of alkenone and *n*-alkane thermal alteration at seismic timescales, G-cubed 18(1), 204–219. doi: 10.1002/2016GC006553
3. **Rabinowitz, H.S.**, H.M. Savage, T. Plank, P.J. Polissar, J.D. Kirkpatrick, C.D. Rowe, 2015. Multiple major faults at the Japan Trench: Chemostratigraphy of the plate boundary at IODP Exp. 343: JFAST. Earth and Planetary Science Letters 423, 57–66. doi: 10.1016/j.epsl.2015.04.010
2. Pope W.H., … **H.S. Rabinowitz**, …, G.F. Hatfull, 2011. Expanding the diversity of mycobacteriophages: insights into genome architecture and evolution. *PLoS One*, 6(1): e16329. doi:10.1371/journal.pone.0016329.
1. Pope, W.H., … **H.S. Rabinowitz**, …, G.F. Hatfull, 2011. Cluster K mycobacteriophages: Insights into the evolutionary origins of mycobacteriophage TM4. *PLoS One*, 6(10): e26750. doi:10.1371/journal.pone.0026750.

IN PREP

Rabinowitz, H.S., H.M. Savage, P.J. Polissar. Multiple shallow seismic faults in region of 2011 Tohoku-oki earthquake, *in prep*.

Rabinowitz, H.S., P. Skemer, T.M. Mitchell, J. Williams, V.G. Toy, G. Di Toro. Experimental reactivation of pseudotachylyte-bearing fault rocks, *in prep*.

ABSTRACTS

Rabinowitz, H.S., H.M. Savage, B.M. Carpenter, C. Collettini, M.J. Ikari. Frictional behavior of sediments in subduction zones. American Geophysical Union Fall Meeting, 2016 *(Poster)*

Rabinowitz, H.S., H.M. Savage, B.M. Carpenter, C. Collettini. Frictional behavior of carbonate-rich sediments in subduction zones. Southern California Earthquake Center, 2016 *(Poster)*

Rabinowitz, H.S., H.M. Savage, B.M. Carpenter, C. Collettini. Frictional behavior of carbonate-rich sediments in subduction zones. Gordon Research Conference, 2016 *(Poster)*

Rabinowitz, H.S., H.M. Savage, B.M. Carpenter, C. Collettini. Frictional behavior of carbonate-rich sediments in subduction zones. American Geophysical Union Fall Meeting, 2015 *(Talk)*

Rabinowitz, H.S., H.M. Savage, P.J. Polissar, T. Plank, C.D. Rowe, J.D. Kirkpatrick. Detecting seismic signatures in the rock record at the Japan Trench. American Geophysical Union Fall Meeting, 2014 *(Poster)*

Rabinowitz, H.S., H.M. Savage, P.J. Polissar, T. Plank, C.D. Rowe, J.D. Kirkpatrick. Detecting seismic signatures in the rock record at the Japan Trench. Gordon Research Conference in Rock Deformation, 2014 *(Poster)*

Rabinowitz, H.S., H.M. Savage, P.J. Polissar, T. Plank, C.D. Rowe, J.D. Kirkpatrick, 2013. Detecting the frictional temperature rise during the 2011 Tohoku Earthquake using the thermal maturity of biomarkers. American Geophysical Union Fall Meeting, 2013 *(Talk)*

Rabinowitz, H.S., H.M. Savage, P.J. Polissar, T. Plank, C.D. Rowe, J.D. Kirkpatrick, 2013. Detecting the frictional temperature rise during the 2011 Tohoku Earthquake using the thermal maturity of biomarkers. SCEC Annual Meeting, 2013 *(Poster)*

Rabinowitz, H., P. Skemer, T. Mitchell, G. Di Toro, 2011. Experimental Reactivation of Pseudotachylite-bearing Faulted Rocks. Gordon Research Conference 2012. *(Poster)*

Rabinowitz, H., P. Skemer, T. Mitchell, G. Di Toro, 2011. Experimental Reactivation of Pseudotachylite-bearing Faulted Rocks. American Geophysical Union Fall Meeting 2011. *(Poster)*

Rabinowitz, H., 2011. Experimental Reactivation of Pseudotachylite-bearing Faulted Rocks. Washington University Undergraduate Research Symposium. *(Talk)*

Rabinowitz H., P. Hynes, C. Rhyan, E. Sims, E. Weisser, B. Zhang, 2009. Isolation and Characterization of Mycobacteriophage Angelica. Washington University Undergraduate Research Symposium. *(Poster)*

TEACHING EXPERIENCE

Environmental Risks and Disasters — Spring 2013, Spring 2014

Professor: Göran Ekström

Teaching Assistant for an undergraduate course for which I led and developed material for weekly discussion sections and office hours and graded homework and exams.

Chemical Geology — Spring 2016

Professor: Denton Ebel

Teaching Assistant for a graduate-level course for which I led bi-weekly office hours and graded homework and exams.

FIELD EXPERIENCE

Southern California, Nevada, Italy — *2012–2016*

Sampled transects across faults for biomarker thermal maturity studies

Oklahoma — *2016*

Participated in a rapid deployment of seismometers after the 2016 M5.8 Pawnee earthquake