

Justin Ross Brown, PhD

Visiting Assistant Professor of Geophysics
Department of Geology and Environmental Science
James Madison University
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Professional Preparation

University of Wisconsin-Madison	Physics, Geology and Geophysics	B.S. 2006
Stanford University	Geophysics	M.S. 2008
Stanford University	Geophysics	Ph.D. 2012

Appointments

Visiting Assistant Professor of Geophysics: James Madison University – 08/01/2014-present
NSF Earth Sciences Postdoctoral Scholar: Miami University of Ohio – 01/17/2014-05/31/2014
NSF Earth Sciences Postdoctoral Scholar: Caltech Seismological Laboratory - 2012-01/16/2014
PhD Candidate in Geophysics, Stanford University – 2008-2012
Research Assistant, U.S. Geological Survey Earthquake Science Centers- 2010
Undergraduate Research Assistant, Dept. of Geology and Geophysics, University of Wisconsin-Madison- 2003-2006
Undergraduate Research Assistant, Incorporated Research Institutions in Seismology, U.S. Geological Survey, Alaska Volcano Observatory- 2004

Published Manuscripts

Brown, J. R., S. G. Prejean, G. C. Beroza, J. S. Gombert, P. J. Haeussler, (2013). Low-Frequency Earthquakes within Tectonic Tremor along the Alaska-Aleutian Subduction Zone, *J. Geophys. Res.*, 118, doi:10.1029/2012JB009459.

Brown, J. R., G. C. Beroza, S. Ide, K. Ohta, D. R. Shelly, S. Y. Schwartz, W. Rabbel, M. Thorwart, and H. Kao, (2009). Deep Low Frequency Earthquakes in Tremor Localize to the Plate Interface in Multiple Subduction Zones, *Geophys. Res. Lett.*, 36, L19306, doi:10.1

Brown, J. R., G. C. Beroza, and D. R. Shelly, (2008). An autocorrelation method to detect low frequency earthquakes within tremor, *Geophys. Res. Lett.*, 35, L16305, <http://dx.doi.org/10.1029/2008GL034560>.

Manuscripts Submitted, in Revision or in Prep

Brown, J. R., (submitted), Low-Frequency Earthquakes within Tectonic Tremor Illuminate the Alaska-Aleutian-Pacific Subduction Interface

Brown, J. R., (in revision), Detecting Repeating Earthquakes during the 2012 Brawley, California Seismic Swarm

Brown, J. R., (in prep), Aftershock Detection for the March 2013 M 4.7 Earthquake near Anza, California

Brown, J. A., **J. R. Brown**, G.C. Beroza (in prep), Foreshock Detection for the 1999 M_w7.1 Hector Mine Earthquake Sequence

Awards

UW-Madison Chancellor Scholar 2002-2006

UW-Madison Undergraduate Research Fellow 2002-2004

Stanford University Earth Sciences Diversity Graduate Fellow 2006-2012

American Geophysical Union 2007 Tectonophysics Outstanding Student Presentation

Seismological Society of America 2008 Outstanding Student Presentation

American Geophysical Union NSF-MARGINS 2008 Outstanding Student Presentation

Seismological Society of America 2009 Outstanding Student Presentation

American Geophysical Union Outstanding Referee Award 2011- Geophysical Research Letters

Stanford University Geophysics Outstanding Citizenship Award 2012

Synergistic Activities

Session Convener: Fault mechanics at the Brittle-Ductile Transition of Subduction Zones- American Geophysical Union Fall Mtg. 2014

Session Convener: Integrated studies of Slow Earthquakes- American Geophysical Union Fall Mtg. 2013

Session Convener: Towards an Integrated Understanding of Slow Earthquakes: What We Know, What We Don't Know, and How to Move Forward- Seismological Society of America Annual Meeting 2013

Underrepresented Minority Recruiter: Incorporated Research Institutions in Seismology Undergraduate Summer Internship Program- 2009-present

USGS Haiti Outreach Team- 2013

Session Convener: Encouraging, Attracting and Retaining Underrepresented Minorities to Research Intensive Universities: Lessons Learned- American Geophysical Union Fall Mtg. 2010

Session Convener: Encouraging Success and Diversity through Minority Participation in Science- American Geophysical Union Fall Mtg. 2009

San Andreas Fault Field Trip leader- Minorities Striving in Pursuit of Higher Degrees of Success (MS PHDS)- 2008-2009

Stanford University Graduate Student Council co-Chair- 2010-2011

Stanford Earth Sciences Council Chair- 2010-2011

Stanford Graduate Rep. to the Faculty Senate- 2010-2011

Grants

University of Wisconsin Undergraduate Hilldale Scholar-2003

University of Wisconsin Sophomore Honors Scholar-2004
Incorporated Research Institutions in Seismology Early Career Investigator Mini-Grant 2013-
present
National Science Foundation Postdoctoral Scholar-2012-present

Invited Talks

NIED/Japanese Meteorological Agency Earthquake Preparedness Seminar-2008
Univ. of Alaska Fairbanks Geophysical Institute Seminar- 2009
Incorporated Research Institutions in Seismology Meeting- 2010
University of California- Berkeley Seismological Laboratory Seminar- 2010
USGS Alaska Science Center Seminar- 2010
Universidad de los Andes Department of Physics- 2010
Geophysical Institute: U. Texas- 2011
Caltech Seismological Laboratory Dix Seminar- 2011
UC Santa Cruz IGPP Seminar- 2012
Univ. Southern California Earthquake Physics Seminar- 2012
Miami Univ. of Ohio Earth Sciences Seminar- 2013
USGS-Menlo Park Earthquake Science Seminar- 2013
Geophysical Institute: University of Alaska Fairbanks- 2013
University of Maryland Dept. of Geology- 2013
UC San Diego Scripps Institution of Oceanography IGPP Seminar- 2014
University of Houston-Clear Lake Department of Physics Special Seminar- 2014
Elizabeth City State Natural Sciences Seminar- 2014
UCLA Seismo-Tectonics Seminar-2014
University of Maryland Dept. of Geology- 2014
Lamont-Doherty Earth Observatory at Columbia University- 2014

Students Advised

Jeremy A. Brown- Stanford University
Tudor Cristea-Platon- California Institute of Technology and Cambridge University
Dana Peterson- University of Wisconsin-Madison

Collaborators and Other Affiliations

Geoffrey Abers- Research Professor- Lamont-Doherty Earth Observatory at Columbia Univ.
Jean-Paul Ampuero- Assistant Professor, California Institute of Technology
Ana C. Aguiar- PhD candidate, Stanford University
Gregory C. Beroza- Professor of Geophysics, Stanford University
Lindsay Birt- PhD candidate, Purdue University
Adrienne S. Block- Research Scientist, Exxon Mobile
Michael R. Brudzinski- Associate Professor, Miami University of Ohio
Harmony Colella- Visiting Lecturer, California State University Fullerton

Marine Denolle- Green Postdoctoral Scholar, Scripps Institution of Oceanography
Joan S. Gomberg- Research Geophysicist, U.S. Geological Survey
Peter J. Haeussler- Research Geologist, U.S. Geological Survey
Susan Hough- Geophysicist, U.S. Geological Survey
Satoshi Ide- Associate Professor of Earth and Planetary Sciences, University of Tokyo
Ambrose Jearld- Woods Hole Partnership Educational Program Director
Honn Kao- Research Scientist, Geological Survey of Canada
Timothy I. Melbourne- Associate Professor of Geology, University of Central Washington
Kazuaki Ohta- PhD candidate, University of Tokyo
Stephanie G. Prejean- Research Geophysicist, U.S. Geological Survey
German Prieto- Assistant Professor of Seismology, M.I.T.
Wolfgang Rabbel- Professor of Geophysics, Christian-Albrechts-Universität
Susan Y. Schwartz- Professor of Geophysics, University of California-Santa Cruz
David R. Shelly- Research Geophysicist, U.S. Geological Survey
Martin Thorwart- Research Associate, Christian-Albrechts-Universität
Clifford H. Thurber- Professor of Geosciences, University of Wisconsin-Madison
James Tindall- Research Scientist, U.S. Geological Survey

Postdoctoral Mentors

Michael R. Brudzinski- Associate Professor, Miami University of Ohio
Jean-Paul Ampuero- Assistant Professor, California Institute of Technology
Susan E. Hough- Geophysicist, U.S. Geological Survey

Graduate Advisor

Gregory C. Beroza- Wayne Loel Professor of Geophysics, Stanford University

Thesis Advisors

Gregory C. Beroza- Professor of Geophysics, Stanford University (M.S. thesis, PhD thesis)
Clifford H. Thurber- Professor of Geosciences, University of Wisconsin-Madison (Honors B.S. thesis)