

## Gregory Beroza

### Education

1989 Ph.D. Geophysics Massachusetts Institute of Technology

1982 B.S. Geophysics University of California at Santa Cruz

### Professional Experience

2003 - Present | Professor of Geophysics Stanford University

1994 - 2003 | Associate Professor of Geophysics Stanford University

1990 - 1994 | Assistant Professor of Geophysics Stanford University

1989 - 1990 | Postdoctoral Associate Massachusetts Institute of Technology

### Honors & Awards

2012 | IRIS/SSA Distinguished Lecturer

2011 | Distinguished Speaker, College of Science, Rochester Institute of Technology

2009 | Wayne Loel Professor of Earth Sciences

2008 | Fellow, American Geophysical Union

2008 | Brinson Lecturer, Carnegie Institute of Washington, Department of Terrestrial Magnetism

1991 | Presidential Young Investigator Award, NSF

1983 | Outstanding Undergraduate in Earth Science, University of California at Santa Cruz

1983 | Chancellor's Award for Undergraduates, University of California at Santa Cruz

1983 | ARCS Foundation Scholarship, University of California at Santa Cruz

1983 - 1987 | National Science Foundation Fellowship, NSF

1982 | Undergraduate Thesis Honors, University of California at Santa Cruz

1982 | Highest Honors in Major, University of California at Santa Cruz

### University Service

2008 - Present | Chair, Geophysics Department

2012 | Planning Committee for SES Campus

2011-2012 | Stanford Judicial Panel

2013 | Stanford Parent's Weekend, 1906 Earthquake Walking Tour of the Stanford Campus

2012 | Stanford Parent's Weekend, Talk on the Tohoku Earthquake

2011 | Organizer, Stanford Symposium on the Tohoku Disaster

2011 | Stanford Parent's Weekend, 1906 Earthquake Walking Tour of the Stanford Campus

2010 | Speaker, Fresno Stanford Alumni Association

2009-2010 | Geophysics Undergraduate Curriculum Committee

2008-2010 | Geophysics Department Space Committee

2009 | Speaker, Stanford Symposium on Commemorating Loma Prieta: the Future of Bay Area Earthquakes

2008 | Speaker, Reunion Homecoming Weekend

2008 | Speaker, Stanford Sierra Camp

2008 | Speaker, Stanford Summer Science Lecture Series

2008 - 2009 | Search Committee, Geological and Environmental Sciences

2007 - 2008 | Associate Chair, Geophysics Department

2006 - 2007 | Chair, Geophysics Department Faculty Search Committee

2006 | Lecturer: CTSA Extended Professional Development Course on "Stanford and the San Andreas Fault"

2006 - 2007 | Chair, Geophysics Fellowship Committee

2006 | Parents weekend lecturer on Stanford and the 1906 Earthquake

2006 | Lecturer, PEER Scholars Course, Stanford, CA

2006 - 2007 | Geophysics Admissions Committee

2004 - 2007 | Earth Sciences Council

2004 - 2006 | Stanford 1906 Earthquake Centennial Committee

2004 - 2005 | Associate Chair, Geophysics Department

2004 - 2005 | Chair, Geophysics Department Search Committee

2003 | Lecturer, PEER Scholars Course, Stanford, CA

2003 - 2004 | Chair, Geophysics Department Pre-Search Committee

2003 - 2009 | Member, School of Earth Sciences Computer Committee

2003 | Chair, Geophysics Strategic Planning Committee

2000 | Invited Lecturer, Stanford Mathematical Geophysics (Summer) School

2000 - 2002 | Chair, Geophysics Technology and Teaching Committee

1999 - 2001 | CGS Subcommittee on Minority Recruitment and Retention

1998 - 2003 | Organizing Committee, Stanford Mathematical Geophysics (Summer) School

1997 - 2001 | Resident Fellow, Rinconada Undergraduate Residence

1995 - 2001 | Undergraduate Advisor, Geophysics Department

1991 - 2007 | Freshman Advisor, Stanford University

## Professional Activities

2013-2014 | AGU Seismology Section, President-Elect.

2010 - Present | Board of Reviewing Editors, Science.

2007 - Present | Deputy Director, Southern California Earthquake Center.

2010 - Present | Chair, IRIS Planning Committee.

2013 - Present | Chair, Advanced National Seismic System Steering Committee.

2010 - Present | Member, IRIS Coordinating Committee.

2013 - Present | Member, California Earthquake Prediction Evaluation Council.

2013 - Present | Member, USGS Scientific Earthquake Studies Advisory Committee.

2010 - 2013 | Member, Scientific Review Panel of the Working Group on California Earthquake Probabilities for the Uniform California Earthquake Rupture Forecast: Version 3.

2013 | Invited Speaker, International Forum of Research Institutes for Disaster Risk Reduction, Kyoto, Japan.

2013 | Invited Speaker, AGU Meeting of the Americas, Special Session on " Tectonic Tremor and Slow-Slip Events", Cancun, Mexico.

2013 | Invited Speaker, New Mexico Museum of Natural History and Science, Albuquerque, New Mexico.

2013 | Invited Speaker, Cascadia Anniversary Public Lecture, North Bend, Oregon.

2010 - 2012 | Resource Expert, Nuclear Regulatory Commission Senior Seismic Hazard Analysis Committee.

2010 - 2012 | Chair, AGU Seismology Section Fellowship Committee.

2007 - Present | USGS-NEHRP External Program Southern California Proposal Review Panel.

2012 | Invited Speaker, JASON Fall Meeting, McLean, VA.

2012 | Invited Speaker, International Workshop of Special Project for Reducing Vulnerability for Urban Mega-Earthquake Disasters, Matsushima, Japan.

2012 | Invited Speaker, IRIS Open House, Washington, DC.

2012 | Invited Speaker, Oregon Museum of Science and Industry, Portland, OR.

2012 | Invited Speaker, Central Washington University, Ellensburg, WA.

2012 | Invited Speaker, Geophysical Institute, University of Alaska, Fairbanks, AK.

2012 | Science Committee: ECGS Workshop on "Earthquake Source Physics at Various Scales"

2012 | Invited Speaker, Southern California Earthquake Center, "Research Year in Review," Palm Springs, California.

2012 | Invited Speaker, "Anticipated Science to Meet New Challenges," IRIS Workshop, Boise, Idaho.

- 2012 | Invited Speaker, University of California Santa Cruz, Whole Earth Seminar.
- 2012 | Invited Speaker, University of British Columbia, Earth and Ocean Science Colloquium.
- 2012 | Invited Speaker, Penn State University, Earth Sciences Colloquium.
- 2012 | Invited Speaker, ARCS Foundation "Frontiers of Science", San Francisco.
- 2010-2011 | Chair, Review Committee for the Yucca Mountain Extreme Ground Motion Report.
- 2011 | Rochester Institute of Technology, Distinguished Speaker.
- 2011 | Invited Speaker, NSF Research Exposition, "Which Hazards are in Your Backyard?" National Science Foundation, Arlington, VA.
- 2011 | Invited Speaker, National Science Foundation Hazards Research Showcase, Washington, DC.
- 2011 | Invited Speaker, Southern California Earthquake Center, "Research Year in Review," Palm Springs, California.
- 2011 | Stanford Center for Position, Navigation, and Time, 5th Annual Symposium on "PNT Challenges and Opportunities", Stanford, California.
- 2011 | Invited Speaker, US Geological Survey, Earthquake Science Center, Menlo Park, California.
- 2011 | Invited Speaker, KAUST-IAMCS Workshop on Multiscale Modeling, Advanced Discretization Techniques, and Simulation of Wave Propagation, Thuwal, Saudi Arabia.
- 2011 | Invited Speaker, KAUST, Earth Sciences and Engineering Seminar, Thuwal, Saudi Arabia.
- 2011 | Invited Speaker, Earthquake Early Warning Summit: Delivering Earthquake Warnings to the US West Coast, UC Berkeley.
- 2011 | Invited Speaker, Stanford University Symposium on the Great Tohoku, Japan Disaster.
- 2010 | Science Committee, EarthScope Institute on "Transient Fault Slip and the Spectrum of Tectonic Slip Behaviors", Portland, Oregon.
- 2010 | Invited Speaker, Stanford Computational Sciences Seminar.
- 2010 | Invited Speaker, Next Generation Attenuation for CEUS (NGA-East) SSHAC Workshop, UC Berkeley.
- 2010 | Invited Speaker, Workshop for Geophysical Hazards and Plate Boundary Processes in Central America, Mexico and the Caribbean, Heredia, Costa Rica.
- 2010 | Invited Speaker, Hokudan Symposium on Active Faulting, Awaji City, Japan
- 2010 | Invited Speaker, 3rd SCEC-ERI Joint Workshop on "Earthquake Hazards in Urban Areas", Tokyo, Japan
- 2010 | Invited Speaker, Earth and Space Sciences Colloquium, University of Washington
- 2010 | Invited Participant, National Science and Technology Council Subcommittee on Disaster Reduction Workshop on "Rebuilding for Resilience: How Science and Engineering Can Inform Haiti's Reconstruction," Coral Gables, FL
- 2010 | Convenor, Special Session on "Triggering, Tremor, and Transient Slip", IRIS Workshop, Snowbird, Utah

2010 | Invited Speaker, Earthscope Institute on the Spectrum of Fault Slip, Portland, Oregon

2010 | Invited Speaker, Workshop for Geophysical Hazards and Plate Boundary Processes in Central America, Mexico and the Caribbean, Heredia, Costa Rica

2009 | Invited Speaker, Earth and Planetary Science Colloquium, University of California, Berkeley

2009 | Invited Speaker, 6th International Workshop on Statistical Seismology, Granlibakken, California.

2009 | Invited Speaker, NSF Workshop on "Vision for Research and Development in Simulation-Based Engineering and Science in the Next Decade", Washington, D.C.

2009 | NSF, Cyber-Enabled Discovery and Innovation Proposal Review Panel

2009 | Invited Speaker, Scripps Institution of Oceanography Earth Science Section Seminar

2009 | Invited Speaker: Loma Prieta Earthquake Commemorative Symposium, San Francisco.

2009 | Invited Speaker: Department of Earth Sciences, University of California Santa Barbara

2008 | Invited Speaker, Gordon Research Conference on "Real Time Rheology"

2008 | Brinson Lecturer, Carnegie Institute of Washington, Department of Terrestrial Magnetism

2008 | Invited Speaker, Los Alamos National Laboratory, Earth and Environmental Sciences "Frontiers in Science" Colloquia

2008 | Invited Speaker, University of Southern California

2008 | Convenor, Special Session on Episodic Tremor and Slip, IRIS Workshop, Stevenson, Washington

2008 | Invited Speaker, (Summer) Science Lecture Series, Stanford University

2008 | Invited Speaker, Caltech Seismological Laboratory

2008 | Invited Speaker, Workshop on Long Range Science Plan for Seismology, Lakewood, Colorado

2008 - Present | AGU Seismology Committee

2008 | Convenor, AGU Special Session on Borehole Geodetic and Seismic Networks: Techniques and Results

2008 | Convenor, AGU Union Session on Episodic Tremor and Slip: Insights into a Newly Discovered Process

2008 - 2009 | Seismological Society of America, Annual Meeting Organizing Committee, Monterey, California

2008 | Invited Speaker, 7th U.S. Japan Natural Resource Panel on Earthquake Research, Seattle, Washington.

2008 | Invited Speaker, Earthquake Research Institute, University of Tokyo

2008 | Invited Speaker, Shimizu Corporation, Tokyo, Japan

2007 | Invited Speaker, Caltech Seismological laboratory

2007 | Invited Speaker, Special Session on "Integrated Borehole Geodetic and Seismic

Networks: A Developing Tool for Earth Science", Seismological Society of America Meeting, Hawaii

2007 | Invited Presentation, "Ground Motion in the 1906 Earthquake", San Mateo County Council of Cities, Menlo Park, CA

2007 | Invited Speaker, Earth Science Colloquia, Lamont Doherty Earth Observatory

2007 | Invited Speaker, Earth and Environmental Sciences, New Mexico Tech

2007 | Invited Speaker, Extreme Ground Motion Workshop, Southern California Earthquake Center Annual Meeting, Palm (Spring)s

2007 | Invited Participant: NSF CyberInfrastructure Workshop on

2007 | Invited Speaker, AGU Special Session on "Integrated Geodetic and Seismic Networks: Science and Data"

2007 | Invited Speaker, AGU Special Session on "Global Adventures in Earthquake Predictability Experiments"

2006 | Plenary Speaker, SSA/EERI 100th Anniversary Earthquake Conference, San Francisco, California

2006 | Invited Speaker, Cafe Scientifique, Palo Alto, California

2006 | Invited Speaker, SCEC-ERI Joint Workshop on Strong Ground Motion Prediction, Oxnard, California

2006 | Invited Speaker, U.S. Geological Survey, Menlo Park

2006 | Invited Speaker, California Press Association, San Francisco

2006 - 2008 | Guest Editor, Seismological Society of America Bulletin on the Centennial of the 1906 San Francisco Earthquake

2006 | Invited Speaker, I| GPP UC Santa Cruz

2006 | Convenor, AGU (Fall) Meeting Special Session on "Global Strike-Slip Fault Systems: Oblique Divergence, Oblique"

2004 | USGS-NEHRP External Program Review Panel

2004 | Invited Speaker, US Geological Survey, Menlo Park, California

2004 | Invited Speaker, University of Southern California

2004 | Invited Speaker, Berkeley Seismological Laboratory, University of California, Berkeley

2004 | Invited Speaker, I| GPP, Scripps Institution of Oceanography

2004 | Convenor, AGU Session on "Earth Structure From Crust to Core: Twenty Years of Science During the IRIS Era"

2003 | Invited Speaker, University of California, Riverside

2003 | Invited Speaker, SIAM Conference on Computational Science and Engineering, San Diego

2003 - 2005 | American Geophysical Union Index Committee

2003 | Invited Speaker, NAS Japanese-American Frontiers of Science Meeting, Kanagawa, Japan

- 2003 - 2006 | Associate Editor, G-Cubed (Geochemistry, Geophysics, Geosystems)
- 2003 | Co-Chair, IRIS/UNAVCO Workshop on Sampling Across the Frequency Spectrum, Yosemite
- 2003 | Invited Speaker, Southern California Earthquake Center Annual Meeting, Oxnard, California.
- 2003 - 2006 | Stanford Earth Science Representative, 1906 Earthquake Centennial Alliance
- 2003 - 2006 | Berkeley Seismological Laboratory Advisory Committee
- 2003 | Invited Speaker, Seismic Energy Scaling Workshop, Livermore, California.
- 2003 | Invited Speaker and Panelist, SCEC Workshop on Converting Advances in Seismology into Earthquake Science, Caltech, Pasadena.
- 2003 | Southern California Earthquake Datacenter Advisory Committee
- 2003 - 2006 | Incorporated Research Institutions in Seismology (IRIS) Executive Committee
- 2003 - 2005 | Program Committee, AGU Chapman Conference on Radiated Energy and the Physics of Faulting
- 2003 - 2006 | Chair, IRIS Publications and Meetings Subcommittee
- 2003 - 2008 | Plate Boundary Observatory Standing Committee
- 2002 - 2005 | Co-Chair, Earthquake Source Physics Committee, Southern California Earthquake Center
- 2002 - 2003 | NRC Committee to Develop a Long-Term Research Agenda for the Network for Earthquake Engineering Simulation
- 2002 | Invited Speaker, SCEC Fault and Rock Mechanics Workshop
- 2002 - 2007 | Vice Chair, Executive Committee, Southern California Earthquake Center
- 2002 | Invited Speaker, US-Japan Cooperative Research for Urban Earthquake Disaster Mitigation, Kyoto, Japan
- 2001 | Invited Speaker, Disaster Prevention Research Institute, Kyoto, Japan
- 2001 - 2006 | California Integrated Seismic Network Advisory Committee
- 2001 | Invited Speaker: Strong Motion Prediction Workshop: US-Japan Urban Earthquake Hazards Program, Tokyo, Japan
- 2001 - 2002 | Guest Editor, Earth and Planetary Sciences, Special Volume on Slip and Flow Processes Near the Base of the Seismogenic Zone
- 2000 | Invited Speaker: International School on Geophysics, 17th Course: Fault Interaction by Stress Transfer: New Horizons for Understanding Earthquake Occurrence, Erice, Sicily
- 2000 | Invited Speaker: US-Japan Workshop on the Relation between Foreshocks and Mainshock Initiation, Kyoto, Japan
- 2000 | Invited Speaker: Third Bi-Annual U.S.-Japan Natural Resources Panel on Earthquake Research, Menlo Park, California
- 2000 | Plate Boundary Observatory, San Andreas Fault Component Review Panel
- 2000 - 2001 | Local Organizing Committee and Chair of Scientific Program Committee,

Seismological Society of America 95th Annual Meeting, San Francisco, California

2000 - 2007 | Board of Directors, Southern California Earthquake Center

2000 - 2002 | Secretary, Seismology Section of the American Geophysical Union

1999 | Invited Speaker: USGS, Menlo Park

1999 | Invited Speaker: California Institute of Technology

1999 | Invited Speaker: Symposium on Earthquake Processes, Centennial Meeting of the Cordilleran Section of the GSA, Berkeley, California

1999 | Invited Speaker: IRIS Special Session, The Science of Earthquakes, Fish Camp, California

1999 | Invited Speaker: University of California, Berkeley

1999 | Invited Speaker: University of Southern California, Los Angeles

1999 | Invited Speaker: American Geophysical Union Meeting, Special Session on Dynamic Fracturing of Rock and Rock-Like Materials, San Francisco, California

1999 | Invited Speaker: American Geophysical Union Meeting, Special Session on The Loma Prieta Earthquake, 10th Anniversary, San Francisco, California

1999 | Convenor, SSA Special Session, Earthquake Sources and Fault Mechanics: Observations and Insights, Seattle, Washington

1999 | Lecturer, Pacific Engineering Research Workshop for Undergraduate Civil Engineering Students

1999 - 2001 | Local Organizing Committee, Seismological Society of America Meeting

1999 - 2002 | USGS-NEHRP External Program Review Panel

1998 | Invited Speaker: SCEC Workshop on Earthquake Source Physics, Snowbird, Utah

1998 | Invited Speaker: Structural Engineers World Conference, Special Session, Near-Source Ground Motion for the Analysis of Structural Response, San Francisco, California

1998 | Convenor, AGU Session, Earthquake Dynamics

1998 | Chair, Best Student Paper Award Selection Committee, AGU Seismology Section

1998 - 2000 | Panelist, National Science Foundation Seismology and Geophysics Proposal Review Panel

1997 - 2001 | Consulting Editor for Geophysics: 9th Edition of the Encyclopedia of Science and Technology, McGraw Hill

1996 - 2000 | Consulting Editor in Geophysics, McGraw-Hill Yearbook of Science and Technology

1996 - 2001 | NRC Committee on the Science of Earthquakes

1996 - 1998 | Associate Editor, Journal of Geophysical Research

1990 - 2007 | IRIS (Incorporated Research Institutions for Seismology) Board of Directors

## Courses Taught



2012 (Winter) | GP 385L Earthquake Seismology Seminar [Enrolled 11]  
2012 (Fall) | GP 110 Earth on Edge: Introduction to Geophysics [Enrolled 18]  
2012 (Fall) | GP 130 Introductory Seismology [Enrolled 7]  
2012 (Fall) | GP 201 Frontiers of Geophysical Research at Stanford [Enrolled 13]  
2012 (Fall) | GP 385L Earthquake Seismology Seminar [Enrolled 11]  
2012 (Spring) | GP 113 Earthquakes and Volcanoes [Enrolled 15]  
2012 (Spring) | GP 385L Earthquake Seismology Seminar [Enrolled 9]  
2012 (Winter) | GP 385L Earthquake Seismology Seminar [Enrolled 6]  
2011 (Fall) | GP 110 Earth on the Edge: Introduction to Geophysics [Enrolled 4]  
2011 (Fall) | GP 130 Introductory Seismology [Enrolled 3]  
2011 (Fall) | GP 201 Frontiers of Geophysical Research at Stanford [Enrolled 16]  
2011 (Fall) | GP 385L Earthquake Seismology Seminar [Enrolled 10]  
2011 (Spring) | GP 113 Earthquakes and Volcanoes [Enrolled 15]  
2011 (Spring) | GP 385L Earthquake Seismology Seminar [Enrolled 9]  
2011 (Winter) | GP 385L Earthquake Seismology Seminar [Enrolled 9]  
2011 (Fall) | GP 110 Earth on the Edge: Introduction to Geophysics [Enrolled 4]  
2011 (Fall) | GP 130 Introductory Seismology [Enrolled 3]  
2011 (Fall) | GP 201 Frontiers of Geophysics [Enrolled 16]  
2011 (Fall) | GP 385L Earthquake Seismology Seminar [Enrolled 4]  
2010 (Spring) | GP 385L Earthquake Seismology Seminar [Enrolled 10]  
2010 (Winter) | GP110 Earth on the Edge: Introduction to Geophysics [Enrolled 4]  
2010 (Winter) | GP385L Earthquake Seismology Seminar [Enrolled 10]  
2010 (Fall) | GP 201 Frontiers of Geophysics [Enrolled 14]  
2010 (Fall) | GP281 Geophysical Inverse Theory (w/Segall) [Enrolled 14]  
2010 (Fall) | GP385L Earthquake Seismology Seminar [Enrolled 9]  
2009 (Spring) | GP113 Earthquakes and Volcanoes [Enrolled 32]  
2009 (Spring) | GP385L Earthquake Seismology Seminar [Enrolled 4]  
2009 (Winter) | GP385L Earthquake Seismology Seminar [Enrolled 8]  
2009 (Fall) | GP201 Frontiers of Geophysics [Enrolled 14]  
2009 (Fall) | GP385L Earthquake Seismology Seminar [Enrolled 7]  
2008 (Spring) | GP113 Earthquakes and Volcanoes [Enrolled 45]  
2008 (Spring) | GP385L Quake Seismology & Stress [Enrolled 9]  
2008 (Winter) | GP 287 Earthquake Seismology [Enrolled 12]

2008 (Winter) | GP385L Quake Seismology & Stress [Enrolled 9]  
2008 (Fall) | GP 201 Frontiers of Geophysics [Enrolled 15]  
2008 (Fall) | GP281 Geophysical Inverse Theory [Enrolled 15]  
2008 (Fall) | GP385L Earthquake Seismology Seminar [Enrolled 9]  
2007 (Fall) | GP 113 Earthquakes and Volcanoes [Enrolled 41]  
2007 (Fall) | GP 385L Seismology and Fault Mechanics [Enrolled 6]  
2006 (Winter) | GP287 Earthquake Seismology [Enrolled 10]  
2006 (Winter) | GP385L Quake Seismology & Stress [Enrolled 5]  
2006 (Fall) | GP 180 Inverse Problems (with Segall) [Enrolled 11]  
2006 (Fall) | GP 385L Seismology and Fault Mechanics [Enrolled 4]  
2005 (Winter) | GP 30Q 1906 San Francisco Earthquake [Enrolled 11]  
2005 (Fall) | GP 287 Earthquake Seismology [Enrolled 4]  
2005 (Fall) | GP 180 Inverse Problems (with Segall) [Enrolled 7]  
2005 (Fall) | GP 160 Waves (with Claerbout, Harris) [Enrolled 6]  
2005 (Fall) | GP 185L/385L Seismology and Fault Mechanics [Enrolled 7]  
2005 (Fall) | GP 3 Earthquakes and Volcanoes (with Segall) [Enrolled 11]  
2005 (Winter) | 113 Earthquakes and Volcanos [Enrolled 21]  
2004 | 185L/385L Quake Seismology and Stress [Enrolled 1]  
2004 (Spring) | GP 180 Geophysical Inverse Problems (w/ Segall) [Enrolled 7]  
2004 (Spring) | GP 30Q 1906 San Francisco Earthquake [Enrolled 7]  
2004 | GP 3/ ES 113 Earthquakes and Volcanoes [Enrolled 16]  
2004 | GP 385L Quake Seismology and Stress [Enrolled 6]  
2003 | GP3/ES113 Earthquakes and Volcanoes [Enrolled 11]  
2003 | GP 385L Quake Seismology and Stress [Enrolled 6]  
2003 | GP030Q 1906 San Francisco Earthquake [Enrolled 6]  
2002 | GP003 Earthquakes and Volcanoes (with Segall) [Enrolled 11]  
2002 (Fall) | GP160 Waves in the Earth [Enrolled 5]  
2002 (Fall) | GP 385L Seismology and Fault Mechanics (with Segall, Zoback) [Enrolled 16]  
2001 | GP004 Natural Hazards (with Segall) [Enrolled 14]  
2001 | GP385 Quake Seismology (with Segall, Zoback) [Enrolled 11]  
2001 | GP287 Earthquake Seismology [Enrolled 12]  
2001 | GP160 Waves (with Claerbout and Harris) [Enrolled 10]  
2001 | GP030 The 1906 Earthquake [Enrolled 7]

- 2001 | GP180 Inverse Problems (with Segall) [Enrolled 16]
- 2001 (Fall) | GP 185 Seismology and Fault Mechanics [Enrolled 2]
- 2000 | GP030 The 1906 Earthquake [Enrolled 2]
- 2000 | GP004 Natural Hazards (with Segall) [Enrolled 27]
- 2000 | GP160 Waves (w/Harris, Claerbout) [Enrolled 9]
- 2000 | GP385 Earthquake Seismology (with Segall, Zoback) [Enrolled 8]
- 1999 | GP004 Natural Hazards (with Segall) [Enrolled 29]
- 1999 | GP030 Earthquake Prediction [Enrolled 4]
- 1999 | GP160 Waves (w/Harris, Claerbout) [Enrolled 9]
- 1999 | GP180 Geophysical Inverse Problems (with Segall) [Enrolled 15]
- 1999 | GP287 Earthquake Seismology [Enrolled 8]
- 1999 | GP385 Earthquake Seismology (with Segall, Zoback) [Enrolled 17]

## Publications

- 2013 \*+ | Baltay, A., G. C. Beroza, and S. Ide, Radiated Energy of Great Earthquakes from Teleseismic Empirical Green's Function Deconvolution, *Pure Appl. Geophys.*, (submitted).
- 2013 \*+ | Prieto, G. A., M. Florez, S. A. Barrett, F. Ferri, G. C. Beroza, and CGS Working Group, Seismic evidence for a thermal runaway during intermediate-depth earthquake rupture, *Science*, (submitted).
- 2013 \*+ | Brown, J. R., S. G. Prejean, G. C. Beroza, J. S. Gombert, and P. J. Haeussler, Deep low-frequency earthquakes in tectonic tremor along the Alaska Aleutian subduction zone, *J. Geophys. Res.*, (in press).
- 2013 \*+ | Denolle, M., E. M. Dunham, G. A. Prieto, and G. C. Beroza, Ground motion prediction of realistic earthquake sources using the ambient seismic field, *J. Geophys. Res.*, **118**, 1-17, doi: 10.1029/2012JB009603.
- 2013 | Beroza, G. C., Did you feel it? review of The Earthquake Observers: Disaster Science from Lisbon to Richter, by D. Coen, *Science*, **340**, 274-275, doi: 10.1126/science.1235758.
- 2013 \*+ | Baltay, A. S., T. C. Hanks, and G. C. Beroza, Stable stress drop measurements and their variability: implications for ground motion prediction, *Bull. Seismol. Soc. Am.*, **103**, 211-222, doi:10.1785/0120120161.
- 2012 \*+ | Prieto, G. A., G. C. Beroza, S. A. Barrett, G. López, and M. Florez, Earthquake nests as natural laboratories for the study of intermediate-depth earthquakes, *Tectonophysics*, **570**, 42-56, doi: 10.1017/j.tecto.2012.07.019.
- 2012 \* | Hanks, T. C., G. C. Beroza, and S. Toda, Have recent earthquakes exposed flaws in or misunderstandings of probabilistic seismic hazard analysis? *Seismol. Res. Lett.* **83**, 759-764, doi: 10.1785/0220120043.
- 2012 \*+ | Denolle, M., E. Dunham, and G. C. Beroza, Solving the surface-wave eigenfunction problem with spectral collocation, *Bull. Seismol. Soc. Am.* **102**, 1214-1223, doi:10.1785/0120110183.

2012 | McGuire, J. J. and G. C. Beroza, A rogue earthquake off Sumatra, *Science*, **336**, 1118-1119, doi:10.1126/science.1223983.

2012 \* | Toda, S., R. S. Stein, G. C. Beroza, and D. Marsan, Aftershocks halted by static stress shadows, *Nature Geosciences* **5**, 410-413, doi:10.1038/ngeo1465.

2012 \* | Ma, S., and G. C. Beroza, Ambient-field Green's functions from asynchronous seismic observations, *Geophys. Res. Lett.*, **39**, L06301, doi:10.1029/2011GL050755.

2012 | Beroza, G. C., How many great earthquakes should we expect? *Proceedings of the National Academy of Sciences*, **109**, 651-652.

2011 \*+ | Prieto, G.A., M. Denolle, J. F. Lawrence, and G. C. Beroza, On amplitude information carried by the ambient seismic field, *Imaging and Monitoring with Seismic Noise, Comptes Rendus Geoscience*, **343**, 600-614.

2011 \*+ | Ide, S., A. Baltay, and G. C. Beroza, Shallow Dynamic Overshoot and Energetic Deep Rupture in the 2011 Mw 9.0 Tohoku-Oki Earthquake, *Science*, **332**, (6036), 1426-142.

2011 \*+ | Baltay, A., S. Ide, G.A. Prieto, and G.C. Beroza, Variability in earthquake stress drop and apparent stress, *Geophys. Res. Lett.*, **38**, L06303, doi:10.1029/2011GL046698.

2011 \* | Beroza, G. C. and S. Ide, and, Non-Volcanic Tremor and Slow Earthquakes, *Annu. Rev. Earth Planet. Sci.*, **39**, 271-296, doi:10.1146/annurev-earth-040809-152531.

2010 \*+ | Baltay, A., G. Prieto, and G. C. Beroza, Radiated seismic energy from coda measurements indicates no scaling in apparent stress with seismic moment, *J. Geophys. Res.*, **115**, B08314, doi:10.1029/2009JB006736

2010 \* | Maceira, M., C. A. Rowe, G. Beroza, and D. Anderson, Identification of low-frequency earthquakes in non-volcanic tremor using the subspace detector method, *Geophys. Res. Lett.*, **37**, L06303, doi:10.1029/2009GL041876.

2010 | Beroza, G. C., 15 Years Later: The Growing Legacy of the 1995 Kobe Earthquake, *Seismological Research Letters* **81(1)**: 5-6, doi:10.1785/gssrl.81.1.5.

2009 \*+ | Prieto, G. A., J. F. Lawrence, and G. C. Beroza, Anelastic Earth structure from the coherency of the Ambient seismic field, *J. Geophys. Res.*, **114**, B07202, doi:10.1029/2008JB006067

2009 \* | Uchide, T., S. Ide, and G. C. Beroza, Dynamic High-Speed Rupture from the Onset of the 2004 Parkfield, California, Earthquake, *Geophys. Res. Lett.*, **36**, L04307, doi:10.1029/2008GL036824.

2009 | Beroza, G. C., and S. Ide, Deep tremor and slow quakes, *Science*, **234**, 1025-1026, 10.1126/science.1171231.

2009 \*+ | Brown, J. R., G. C. Beroza, S. Ide, K. Ohta, D. R. Shelly, S. Y. Schwartz, W. Rabbel, M. Thorwart, and H. Kao, Deep Low Frequency Earthquakes in Tremor Localize to the Plate Interface in Multiple Subduction Zones, *Geophys. Res. Lett.*, **36**, L19306, doi:10.1029/2009GL040027.

2008 \*+ | Song, S. G., G. C. Beroza, and P. Segall, A unified source model for the 1906 San Francisco earthquake, *Bull. Seismol. Soc. Am.*, **98**, 823-831.

2008 \*+ | Ma, S., and G. C. Beroza, Rupture dynamics on a bi-material interface for dipping faults, *Bull. Seismol. Soc. Am.*, **98**, p. 1642-1658; DOI: 10.1785/0120070201.

2008 | Beroza, G. C., Slow Earthquakes, 299-301, McGraw Hill Yearbook of Science and Technology, McGraw Hill, New York.

- 2008 \* | Aagaard, B. T., and G. C. Beroza, The 1906 San Francisco earthquake a century later: introduction to the special section, *Bull. Seismol. Soc. Am.*, **98**, 817-822.
- 2008 \*+ | Ide, S., K. Imanishi, Y. Yoshida, G. C. Beroza, and D. R. Shelly, Bridging the gap between seismically and geodetically detected slow earthquakes, *Geophys. Res. Lett.*, **35**, L10305, doi:10.1029/2008GL034014.
- 2008 \*+ | Prieto, G. A., and G. C. Beroza, Earthquake Ground Motion Prediction Using the Ambient Seismic Field, *Geophys. Res. Lett.*, **35**, L14304, doi:10.1029/2008GL034428.
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## Advisee Degrees

2012 Justin Brown: Detecting Low Frequency Earthquakes within Deep Tectonic Tremor, Ph.D. (Postdoctoral Associate, Caltech)

2011 Annemarie Baltay: Precise Earthquake Source Parameter Determination, Ph.D. (Postdoctoral Associate, US Geological Survey)

2008 Justin R. Brown: An Autocorrelation Technique to Detect Earthquakes Within Tremor, M.S. (Postdoctoral Associate, Caltech)

2008 Annemarie Baltay: Energy Estimates from the Seismic Coda: Comparing a Coda Calibration Method to the Empirical Green's Function Method, M.S. (Postdoctoral Associate, US Geological Survey)

2007 David R. Shelly: The Mechanics of Subduction Zone Tremor and Slow Slip in Japan, Ph.D. (Research Scientist, US Geological Survey, Menlo Park)

- 2007 Seok Goo Song: Source Characteristics of Large Strike-Slip Earthquakes, Ph.D. (Research Scientist, ETH Zurich)
- 2006 Justin Rubinstein: Using Microearthquakes as Probes of Larger Earthquake Rupture, Ph.D. (Research Scientist, US Geological Survey, Menlo Park)
- 2003 Eva Zankerka: Towards an Understanding of Seismic Triggering Through Precise Earthquake Locations, Ph.D. (Program Manager Geophysics, Geoinformatics, and Cyberinfrastructure, NSF, Arlington, VA)
- 2002 Xyoli Perez-Campos: A Comprehensive Study of the Radiated Seismic Energy, Ph.D. (Professor, Universidad Nacional Autonoma de Mexico)
- 2002 Justin Rubinstein, M.S. (Research Scientist, US Geological Survey, Menlo Park)
- 2001 P. Martin Mai: Characterizing Earthquake Source Complexity for Improved Strong Motion Prediction, Ph.D. (Professor, KAUST, Thuwal, Saudi Arabia)
- 2001 David P. Schaff: 4D High Resolution Seismology: Repeating Events and Large Scale Relocation, Ph.D. (Research Scientist, Lamont-Doherty Earth Observatory)
- 2000 Mariagiovanna Guatteri: Inferring fault rupture dynamics from strong motion data, Ph.D. (Director | ILS Trading, Swiss Re Capital Markets Corp., New York, NY)
- 2000 Martin Mai, M.S. (Professor, KAUST, Thuwal, Saudi Arabia)
- 1999 Xyoli Perez-Campos, M.S. (Professor, Universidad Nacional Autonoma de Mexico)
- 1999 Mariagiovanna Guatteri, M.S. (Director | ILS Trading, Swiss Re Capital Markets Corp., New York, NY)
- 1998 Karen Felzer, B.S. (Research Scientist, US Geological Survey, Pasadena)
- 1996 Douglas A. Dodge: Micro-Earthquake Studies Using Cross Correlation Derived Hypocenters, Ph.D. (Research Geophysicist, Lawrence Livermore National Laboratory)
- 1995 Brian Cohee: Imaging Earthquake Rupture, Ph.D. (Chief Technology Officer, Mixpo.com)
- 1995 Martijn Verwoerd, M.S. (Shell)

## Advisee Publications

- 2009 \*+ | Prieto, G. A., R. L. Parker, F. L. Vernon, A FORTRAN 90 library for multitaper spectrum analysis, *Computers and Geosciences*, **35**, 1701-1710. doi:10.1016/j.cageo.2008.06.007.
- 2009 \*+ | Harris, R. A., M. Barall, R. Archuleta, E. Dunham, B. Aagaard, J.P. Ampuero, H. Bhat, V. Cruz-Atienza, L. Dalguer, P. Dawson, S. Day, B. Duan, G. Ely, Y. Kaneko, Y. Kase, N. Lapusta, Y. Liu, S. Ma, D. Oglesby, K. Olsen, A. Pitarka, S. Song, and E. Templeton, The SCEC/USGS dynamic earthquake-rupture code verification exercise, *Seismol. Res. Lett.*, **80**, 119-126, doi: 10.1785/gssrl.80.1.119.
- 2009 \*+ | Prieto, G. A., R. L. Parker, F. L. Vernon., A Fortran 90 library for multitaper spectrum analysis, *Computers and Geosciences*, doi:10.1016/j.cageo.2008.06.007.
- 2008 \*+ | Ma, S., S. Custodio, R. J. Archuleta, and P. Liu, Dynamic modeling of the Mw 6.0 Parkfield, California, earthquake, *J. Geophys. Res.*, **113**, B02301, doi:10.1029/2007JB005216.
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2007 \*+ | Prieto, G. A., D. J. Thomson, F. L. Vernon, P. M. Shearer and R. L. Parker (2007), Confidence intervals of earthquake source parameters, *Geophys. J. Int.*, **168**, 1227-1234. doi: 10.1111/j.1365- 246X.2006.03257.x.

2007 \*+ | O'Connell, D.R.H., S. Ma, and R. J. Archuleta, Influence of dip and velocity heterogeneity on reverse- and normal-faulting rupture dynamics and near-fault ground motions, *Bull. Seismol. Soc. Am.*, **97**, 1970-1989, doi: 10.1785/0120070040.

2007 \*+ | Ma, S., R. J. Archuleta, and M. T. Page, Effects of large-scale surface topography on ground motions, as demonstrated by a study of the San Gabriel Mountains, Los Angeles, California, *Bull. Seismol. Soc. Am.*, **97**, 2066-2079; DOI: 10.1785/0120070040.

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