

Morgan T. Page

CONTACT INFORMATION

U.S. Geological Survey
525 S. Wilson Ave.
Pasadena CA 91106 USA

Voice: (626) 583-6804
E-mail: pagem@caltech.edu
Web: www.its.caltech.edu/~pagem

RESEARCH INTERESTS

I am interested in earthquake source physics, probabilistic hazard analysis, and inverse problems in seismology. In particular my research has focused on statistical issues in seismology, including rigorously incorporating model uncertainty into hazard analysis, quantifying uncertainty in kinematic inversions, and analyzing nonstationarities in earthquake catalogs.

EDUCATION

University of California, Santa Barbara, California, USA

Advisor: Jean M. Carlson
Ph.D., Physics, 2007
M.A., Physics, 2005

Grinnell College, Grinnell, Iowa USA

B.A., Physics, *with honors*, 2002
B.A., Mathematics, 2002

HONORS AND AWARDS

Co-organizer, Source Inversion Validation exercise, with Martin Mai and Danijel Schorlemmer, 2008-present

Mendenhall Postdoctoral Fellowship, 2007

Best Student Presentation Award, Seismological Society of America, 2007

Key Scientist, Uniform California Earthquake Rupture Forecast

Referee, Bulletin of the Seismological Society of America

Referee, Journal of Geophysical Research

NEHRP Grant, coauthor with PIs Ralph Archuleta and Jean Carlson, 2006

National Science Foundation Graduate K-12 Education Fellowship, 2005

National Science Foundation Graduate K-12 Education Fellowship, 2004

Best Student Presentation Award, Seismological Society of America, 2004

Broida Fellowship, University of California, Santa Barbara, 2002

Eugene Cota-Robles Fellowship, University of California, Santa Barbara, 2002

Meritorious Rating, COMAP Mathematical Contest in Modeling, 2000

RESEARCH
EXPERIENCE

- U.S. Geological Survey**, Pasadena, California USA
Mendenhall Postdoctoral Fellow **2007-present**
Advisor: Dr. Ned Field
Geophysics
- University of California, Santa Barbara, Dept. of Physics**, Santa Barbara, California USA
Graduate Research Assistant **2003-2007**
Advisor: Dr. Jean M. Carlson
Geophysics
- Grinnell College, Dept. of Physics**, Grinnell, Iowa USA
Undergraduate Research Assistant **2000-2001**
Advisor: Dr. Charles Duke
Gamma-ray Astronomy
- Undergraduate Research Assistant* **Summer 1999**
Advisor: Dr. Mark Schneider
Modeling of a Low-Energy Positron Spectrometer

TEACHING
EXPERIENCE

- University of California, Santa Barbara**, Santa Barbara, California USA
Leaps Fellow **2005-2006**
Santa Barbara High School
- Leaps Fellow* **2004-2005**
Santa Barbara Junior High School
- The Leaps Fellowship program is part of an NSF GK-12 grant to UCSB and places graduate students in 8th and 9th grade science classrooms. As a Leaps fellow I taught lessons, designed curricula and demonstrations, and ran labs at the local schools. I also helped to arrange Family Science nights, field trips, and lab tours, with the goal of better integrating local science classrooms, UCSB, and the community.
- Calculus tutor* **1999-2001**
Grinnell College Math Lab

PUBLICATIONS

- Custódio, S., M. T. Page, and R. J. Archuleta. Constraining Earthquake Source Inversions with GPS Data 2: A Two-Step Approach to Combine Seismic and Geodetic Datasets. *J. Geophys. Res. - Solid Earth*. 114, B01315 (2009). doi:10.1029/008JB005746
- Page, M. T., S. Custódio, R. J. Archuleta, and J. M. Carlson. Constraining Earthquake Source Inversions with GPS Data 1: Resolution Based Removal of Artifacts. *J. Geophys. Res. - Solid Earth*. 114, B01314 (2009). doi:10.1029/2007JB005449
- Ma, Shuo, Ralph J. Archuleta, and Morgan 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. Seism. Soc. Am.* 97, 6 (2007). doi: 10.1785/0120070040
- Page, M. T. and J. M. Carlson. Methodologies for Earthquake Hazard Assessment: Model Uncertainty and the WGCEP-2002 Forecast. *Bull. Seism. Soc. Am.* 96, 5 (2006). doi: 10.1785/0120050195

Page, M. T., E. M. Dunham, and J. M. Carlson. Distinguishing Barriers and Asperities in Near-Source Ground Motion. *J. Geophys. Res. - Solid Earth*. 110, B11302 (2005).
doi:10.1029/2005JB003736

Petry, D., et al. The TeV spectrum of H1426+428. *Astrophys. J.* 580, 104 (2002). astro-ph/0207506

INVITED TALKS

Page, Morgan, Karen Felzer, Ray Weldon, Glenn Biasi, David Alderson, John Doyle, and Ned Field. Magnitude-frequency Statistics on a Single Fault: Gutenberg-Richter or Characteristic? U.S. Geological Survey, Menlo Park, 2009.

Page, Morgan, Karen Felzer, Ray Weldon, Glenn Biasi, David Alderson, John Doyle, and Ned Field. The Evidence for Gutenberg-Richter Statistics on Individual Faults. University of Southern California, 2009.

Page, Morgan, Karen Felzer, Ray Weldon, Glenn Biasi, David Alderson, John Doyle, and Ned Field. Magnitude-frequency statistics on a single fault: Does Gutenberg-Richter scaling apply? SCEC Annual Meeting, 2009.

Page, Morgan, Karen Felzer, Ray Weldon, Glenn Biasi, David Alderson, John Doyle, and Ned Field. Testing the Characteristic Earthquake Hypothesis. 6th International Workshop on Statistical Seismology, 2009.

Page, Morgan, Karen Felzer, Ray Weldon, Glenn Biasi, David Alderson, and John Doyle. Seismicity in Major Fault Zones in Southern California: Gutenberg-Richter or Characteristic? Tectonics Observatory Seminar, California Institute of Technology, 2009.

Page, Morgan, Karen Felzer, Ray Weldon, and Glenn Biasi. The Magnitude-Frequency Distribution of the Southern San Andreas Fault: Resolving Apparent Deviations from Power-Law Behavior. Complex Systems and Condensed Matter Seminar, University of California, Santa Barbara, 2009.

Page, Morgan, David Alderson, John Doyle, and Andrew Michael. Nonstationarities in the California Catalog. Post-doc Colloquium, U.S. Geological Survey, Menlo Park, 2008.

Page, Morgan, Susana Custódio, Ralph J. Archuleta, and J. M. Carlson. Strategies for Uncertainty Assessment in Source Inversions. Source Inversion Workshop, Seismological Society of America Annual Meeting, 2008.

Page, Morgan, Susana Custódio, Ralph J. Archuleta, and J. M. Carlson. GPS Inversions: What Can They Resolve? Dix Seismo Lab Seminar, California Institute of Technology, 2007.

Page, Morgan, Susana Custódio, Ralph J. Archuleta, and J. M. Carlson. Constraining Earthquake Source Inversions with GPS Data: Resolution Based Removal of Artifacts. U.S. Geological Survey, Menlo Park, 2007.

Page, Morgan, Susana Custódio, Ralph J. Archuleta, and J. M. Carlson. Using Resolution Information to Eliminate Artifacts in Earthquake Source Inversions. University of Southern California, 2007.

Page, Morgan, Susana Custódio, Ralph J. Archuleta, and J. M. Carlson. Resolution of Slip from Inversions of GPS Data. Lamont-Doherty Earth Observatory, 2007.

Page, Morgan, Susana Custódio, Ralph J. Archuleta, and J. M. Carlson. Resolution of GPS Data from the 2004 Mw6.0 Parkfield Earthquake. 6th Joint Meeting of UJNR Panel on Earthquake Research, Tokushima, Japan, 2006.

Page, Morgan, and J. M. Carlson. Quantifying Spatial Resolution and Uncertainty in Kinematic Inversions. Connections II Workshop, California Institute of Technology, 2005.

Page, Morgan. Predicting the Unpredictable: A Look at Earthquakes. Condensed Matter Seminar, University of California, Santa Barbara, 2004.

CONFERENCE
PRESENTATIONS

Talk, American Geophysical Union Fall Meeting, 2008.

Poster, Southern California Earthquake Center Annual Meeting, 2008.

Talk, Seismological Society of America Annual Meeting, 2008.

Poster, American Geophysical Union Fall Meeting, 2007.

Poster, Southern California Earthquake Center Annual Meeting, 2007.

Poster, Seismological Society of America Annual Meeting, 2007.

Poster, American Geophysical Union Fall Meeting, 2006.

Poster, Southern California Earthquake Center Annual Meeting, 2006.

Poster, International Workshop on Comparative Studies of the North Anatolian Fault and the San Andreas Fault, 2006.

Poster, Seismological Society of America Annual Meeting, 2006.

Poster, Southern California Earthquake Center Annual Meeting, 2006.

Talk, American Geophysical Union Fall Meeting, 2005.

Poster, Southern California Earthquake Center Annual Meeting, 2005.

Poster, Friction, Fracture, and Earthquake Physics Conference, 2005.

Poster, Seismological Society of America Annual Meeting, 2005.

Poster, Southern California Earthquake Center Annual Meeting, 2004.

Poster, Seismological Society of America Annual Meeting, 2004.

Poster, Southern California Earthquake Center Annual Meeting, 2003.

OUTREACH

Keynote Speaker, Girl Scouts Family Science Festival, 2008.

Co-chair and Webmaster, Women in Physics Group, UCSB, 2005-2007.

Judge, Santa Barbara Junior High Science Fair, 2004, 2005, 2006.

Volunteer, Science and Technology Day, University of California, Santa Barbara, 2005.

Graduate Mentor, Women in Science and Engineering, University of California, Santa Barbara, 2004-2007.

Coordinator, Grinnell Women in Physics Lunches, Grinnell College, 2000-2001.

Volunteer, Saturday Science Outreach Program, Grinnell College, 2000-2001.

Teaching Assistant, Summer Astronomy Program, Grinnell College, 2000.