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Education

M.S. in Geophysics, University of Utah, 2007

Thesis: *Space-time Seismicity and Development of a Geographical Information System Database with Interactive Graphics for the Yellowstone Region*

B.S. in Geology, Utah State University, 2001

Senior Thesis: *Finding the Pre-Grand Canyon Colorado River: Petrology of the Muddy Creek Formation North of Lake Mead*

Professional Experience

Research Assistant, University of Utah, 2004 to present

Instructor, University of Utah, Earthquakes and Volcanoes, 2006 fall semester

Teaching Assistant, University of Utah, 2002 to 2004

Research Assistant, Utah State University, summer 2001

Affiliations

American Geophysical Union (AGU)

Seismological Society of America (SSA)

Geological Society of America (GSA)

American Association of Petroleum Geologists (AAPG)

Awards

Utah State University Dept. of Geology 2001 Outstanding Graduating Senior

Utah State University Dept. of Geology 2000 Field Camp Scholarship recipient

Publications

Farrell, J.M. (2007), Space-time seismicity and development of a geographical information system database with interactive graphics for the Yellowstone region, *M.S. Thesis*, Dept. of Geol. and Geophys., University of Utah, Salt Lake City, Utah, 167 pp.

Chang, W.L., R.B. Smith, C. Wicks, J.M. Farrell, and C.M. Puskas (2007), Accelerated uplift and magma intrusion of the Yellowstone caldera, 2004-2006, *Science*, 318, no. 5852, 952-956.

Velasco, A.A., C.J. Ammon, J. Farrell, and K. Pankow (2004), Rupture directivity of the 3 November 2002 Denali fault earthquake determined from surface waves, *Bull. Seism. Soc. Am.*, **94**, no. 6B, S293-S299.

Selected Conference Abstracts

Farrell, J., R.B. Smith, and G.P. Waite (2007), Temporal stress variations of the Yellowstone volcanic system: Seismic and magmatic contributions, *EarthScope National Meeting*, Monterey, CA, March 27-30, Poster 2.

Farrell, J., and R.B. Smith (2005), A geologic-GIS database for the Yellowstone-Teton volcanic and tectonic region, *Geological Society of America Abstracts with Programs*, **37**, No. 7, p. 206.

Farrell, J., and R.B. Smith (2005), A geologic-GIS database for the Yellowstone-Teton volcanic and tectonic region, *EarthScope in the Northern Rockies Meeting*, Bozeman, MT, Sept. 16-18.

Farrell, J., R.B. Smith, D. Kilb, and E. Morikawa (2005), The Yellowstone GEO-GIS database: Facilitating integrated research and data distribution for Yellowstone geoscience, *GEON All Hands Meeting*, San Diego, CA., May 5-6.

Farrell, J., S. Husen, and R.B. Smith (2005), Imaging the *b*-value distribution beneath the Yellowstone hydrothermal system, *EarthScope National Meeting*, Tamaya Resort, Santa Ana Pueblo, NM, March 28-31, Poster 058.

Farrell, J., S. Husen, and R.B. Smith (2004), *b*-value mapping of the Yellowstone volcanic and hydrothermal system, *Eos Trans. AGU*, **85(47)**, Fall Meet. Suppl., Abstract S13A-1030.

Farrell, J.M., G.P. Waite, R.B. Smith, C.M. Puskas, H. Heasler, B. Bartel, and C. Dietel (2003), Seismic and GPS monitoring of the 2003 Norris Geyser Basin hydrothermal disturbance, Yellowstone National Park, *Eos Trans. AGU*, **84(46)**, Fall Meet. Suppl., Abstract V31B-06.

Farrell, J., R.B. Smith, H.M. Benz, K.L. Pankow, and S. Husen (2002), Amplified ground response across the western U.S. interior from the M7.9 Denali earthquake, *Eos Trans. AGU*, **83(47)**, Fall Meet. Suppl., Abstract S72F-1358.