

BIOGRAPHICAL SKETCH - KATE C. MILLER

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PROFESSIONAL PREPARATION:

1982 A.B., magna cum laude, Geological and Geophysical Sciences, Princeton University, Princeton, New Jersey.
1988 M.S., Geophysics, Stanford University, Stanford, California.
1991 Ph.D., Geophysics, Stanford University, Stanford, California.

APPOINTMENTS:

9/02- Professor, University of Texas at El Paso, El Paso, Texas.
9/98-8/02 Associate Professor, University of Texas at El Paso, El Paso, Texas.
9/93-8/98 Assistant Professor, University of Texas at El Paso, El Paso, Texas.
1/92-8/93 Visiting Assistant Professor, University of Texas at El Paso, El Paso, Texas.
9/91-12/91 Research Associate, University of Texas at El Paso, El Paso, Texas.
1/87-8/91 Research Assistant, Department of Geophysics, Stanford University.
1/89-3/89 Teaching Assistant, Department of Geophysics, Stanford University.
6/88-9/88 Summer Geophysicist, Amoco Production Co., New Orleans, Louisiana.
6/87-9/87 Summer Geophysicist, Amoco Production Co., New Orleans, Louisiana.
3/88-6/88 Teaching Assistant, Department of Geophysics, Stanford University.
6/84-9/86 Exploration Geophysicist, Amoco Production Co., New Orleans, Louisiana.
8/82-6/84 Development Geologist, Amoco Production Co., New Orleans, Louisiana.

AWARDS: Elected to Sigma Xi, 1982; Geological Society of America Fellow, 1997; University of Texas Chancellor's Council Outstanding Teaching Award, 2001.

FIVE RELEVANT PUBLICATIONS:

- Miller, K. C., T. Carrick, C. Martínez-Sussmann, R. Levine, C. L. Andronicos, R. P. Langford, 2007, *Effectiveness of a Summer Experience for Inspiring Interest in Geoscience Among Hispanic-American High School Students*, *Journal of Geoscience Education*, v. 55, pp. 596-603.
- J. M. Hamblock, C. L. Andronicos, K. C. Miller, C. G. Barnes, M-H. Ren, M. G. Averill, and E. Y. Anthony, 2007, *A Composite Geologic and Seismic Profile Beneath The Southern Rio Grande Rift, New Mexico, Based on Xenolith Mineralogy, Temperature, and Pressure*, *Tectonophysics*, v. 442, pp. 14-48, doi:10.1016/j.tecto.2007.04.006.
- Snelson, C. M., T. M. Brocher, K. C. Miller, T. L. Pratt, and A. M. Tréhu, 2007, *Seismic Amplification Within the Seattle Basin, Washington State: Insights from SHIPS Seismic Tomography Experiments*, *Bull. Seism. Soc. Am.*, v. 97, pp. 1432-1448, doi: 10.1785/0120050204.
- Magnani, M. B., K. C. Miller, A. Levander, and K. E. Karlstrom, 2004, *The Yavapai-Mazatzal boundary: a long-lived assembly structure in the lithosphere of southwestern North America*, *Geol. Soc. Am. Bull.*, v. 116, pp. 1137-1142.
- Miller, K. C., 2002, *Geophysical Evidence for Miocene Extension and Mafic Magmatic Addition in the California Continental Borderland*, *Geological Society of America Bulletin*, v. 114, pp. 497-512.

FIVE ADDITIONAL PUBLICATIONS:

- Velasco, A. A., V. L. Gee, C. A. Rowe, D. Grujic, L. S. Hollister, D. Hernandez, K. C. Miller, T. Tobgay, M. Fort, and S. Harder, 2007, Using Small, Temporary Seismic Networks for Investigating Tectonic Deformation: Brittle Deformation and Evidence for Strike-Slip Faulting in Bhutan, *Seism. Res. Lett.*, v. 78, p. 446-453, DOI: 10.1785/gssrl.78.4.446.
- Snelson, C. M., G. R. Keller, K. C. Miller, H.-M. Rumpel, and C. Prodehl, 2005, *Regional crustal structure derived from the CD-ROM 99 seismic refraction/wide-angle reflection profile: The lower crust and upper mantle*, in Lithospheric Structure and Evolution of the Rocky Mountain Region, K. E. Karlstrom, and G. R. Keller, eds., Am. Geop. Un. Monograph 154, pp. 271-292.
- Amarante, J. F. A., S. A. Kelley, M. T. Heizler, M. Barnes, K. C. Miller, and E. Y. Anthony, 2005, *Characterization and age of the Mesoproterozoic Debaca sequence in the Tucumcari basin, New Mexico*, in Lithospheric Structure and Evolution of the Rocky Mountain Region, K. E. Karlstrom, and G. R. Keller, eds., Am. Geop. Un. Monograph 154, pp. 185-200.
- Parsons, T., A. M. Trehu, J. H. Luetgert, K. Miller, F. Kilbride, R. E. Wells, M. A. Fisher, E. Flueh, U. S. ten Brink, and N. I. Christensen, 1998, *A new view into the Cascadia subduction zone and volcanic arc in southwest Washington*, *Geology*, v. 26, pp. 199-202.
- O'Donnell, T. M. Jr., K. C. Miller, and J. C. Witcher, 2001, *A Seismic and Gravity Study of the McGregor Geothermal System, Southern New Mexico*, *Geophysics*, v. 66, pp.1002-1014.

SYNERGISTIC ACTIVITIES:

- Associate Dean, College of Science, 9/04-5/08; Department Chair, 9/98-8/04
- Member, IRIS (Incorporated Research Institutions for Seismology) Board of Directors, 2003-2005, Planning Committee – 2006 - present.
- Member, Southern California Earthquake Center External Advisory Board, 2005-present
- Lead investigator of NSF-OEDG funded program to introduce more Hispanic, high school students, their teachers, and college students to the geosciences through a summer program and research experience.
- Lead investigator of NSF-GK-12 funded program that partners graduate fellows with middle school science teachers to teach environmental science.
- Lead investigator of MaST (Math and Science Teachers) Academy, a program funded by ADP Inc. to support training of future high school math and science teachers.

COLLABORATORS AND OTHER AFFILIATIONS:

Collaborators:

C. Andronicos, Cornell; M. Barnes, Texas Tech; C. Barnes, Texas Tech; T. Brocher, U. S. Geological Survey; R. Clowes, Univ. British Columbia; M. Ducea, Univ. Arizona; K. Dueker, Univ. Wyoming; E. Erslev, Univ. Wyoming; J. Hole, Va Tech; L. Hollister, Princeton Univ.; K. Karlstrom, Univ. New Mexico; G. R. Keller, Univ. Oklahoma; A. Sheehan, Univ. Colorado; G. Spence, Univ. Victoria; G. Zandt, Univ. Arizona

Graduate Advisor: G. A. Thompson, Stanford University

Thesis Advisees:

D. Adams, PhD. 1995; W. Belzer, M.S. 1999; J. Chang, M.S., 1994; J. C. Chang, MS., 2008; O. Dena, Ph.D., 2008; O. Elebiju, M.S., 2005; M. Averill, Ph.D., 2007; B. Hiatt, M.S. 2000; T. Eshete, Ph.D., 2001; F. Kilbride, Ph.D. 2000; T. Maciejewski, M.S. 1996; T. O'Donnell, M.S. 1998; D. Popovich, M.S. 2002; K. Schramm, M.S. 2004; D. Smith, M.S. 2002; C. Snelson, M.S., 1998, Ph.D, 2001; J. Whitelaw, Ph.D., 1996.

Current Graduate Advisees: S. Carley

Undergraduate Advisees: J. Arellano, B. Drenth, B. Reno, M. Sandoval