Earth Sciences

http://earthsciences.uoregon.edu
Samantha Hopkins, Department Head

100 Cascade Hall
1272 University of Oregon
Eugene, OR 97403-1272
541-346-5976

Earth science applies the basic sciences of physics, biology, chemistry, and mathematics to understanding processes that have shaped the earth through the last 4.5 billion years. Here at the UO, we are well positioned to study these processes using the natural laboratory found in Oregon, where subduction drives volcanoes and earthquakes, which uplift mountains and inspire surface processes of erosion and deposition. These in turn have in turn fostered an unparalleled fossil record of the age of mammals.

Faculty

Ilya N. Bindeman, professor (stable isotope geochemistry, volcanology). BS, 1988, Moscow; PhD, 1998, Chicago. (2004)

Edward B. Davis, associate professor (vertebrate paleontology). BS, 1999, Tennessee, Knoxville; PhD, 2005, California, Berkeley. (2013)

Rebecca J. Dorsey, professor (sedimentology, basin analysis). BS, 1983, Vermont; MA, 1986, PhD, 1989, Princeton. (1997)

Josef Dufek, professor (volcanology). BS, 2000, Chicago; MS, 2004, PhD, 2006, Washington (Seattle). (2017)

Brittany Erickson, assistant professor (computational science). PhD, 2010, Santa Barbara (2018)

Thomas Giachetti, assistant professor (volcanology). MS, 2006, PhD, 2010, Université Blaise Pascal, Clermont-Ferrand. (2015)

Emilie Hooft Toomey, associate professor (marine geophysics). BSc, 1990, Trinity College, Toronto; PhD, 1997, Massachusetts Institute of Technology and Woods Hole Oceanographic Institution. (1999)

Samantha Hopkins, associate professor (paleontology). See **Robert Donald Clark Honors College**.

Qusheng Jin, associate professor (biogeoscience). BS, 1994, Nanjing; MS, 1997, Chinese Academy of Sciences; PhD, 2003, Illinois, Urbana-Champaign. (2005)

Leif A. Karlstrom, assistant professor (volcanology, geomorphology, fluid mechanics). BS, 2006, Oregon; PhD, 2011, California, Berkeley. (2011)

Diego Melgar, assistant professor (earthquake seismology, tsunamis, geodetic imaging). BEng., 2009, Universidad Nacional Autonoma de Mexico; MS, 2010, PhD, 2014, Scripps College. (2017)

Marli B. Miller, associate teaching professor (structural geology). BA, 1982, Colorado College; MS, 1987, PhD, 1992, Washington (Seattle). (1997)

Matthew Polizzotto, associate professor (soil and environmental hydrogeochemistry). BS, BA, 2001, Rochester; PhD, 2007, Stanford. (2016)

Alan W. Rempel, professor (geomechanics and applied mathematics). BASc, 1991, MSc, 1995, British Columbia; PhD, 2001, Cambridge. (2004)

Gregory J. Retallack, professor (paleobotany, paleosols). BA, 1973, Macquarie; PhD, 1978, New England University, Australia. (1981)

Joshua J. Roering, professor (surface processes, geomorphology). BS, 1994, MS, 1995, Stanford; PhD, 2000, California, Berkeley. (2000)

Valerie Sahakian, assistant professor (tectonics, ground seismology, marine geophysics). BS, 2009, Rhode Island; MS, 2010, PhD, 2015, Scripps College. (2018)

David A. Sutherland, associate professor (physical oceanography). BA, 2001, North Carolina, Wilmington; PhD, 2008, Massachusetts Institute of Technology and Woods Hole Oceanographic Institution. (2011)

Amanda M. Thomas, associate professor (earthquake seismology and fault mechanics). BS, 2007, Georgia Institute of Technology; PhD, 2012, California, Berkeley. (2015)

Douglas R. Toomey, professor (seismology, tectonics, midocean ridges). BS, 1981, Pennsylvania State; PhD, 1987, Massachusetts Institute of Technology and Woods Hole Oceanographic Institution. (1990)

Meredith Townsend, assistant professor (volcanology). BS, 2011, Washington and Lee, PhD, 2017, Stanford (2019)

Paul J. Wallace, professor (igneous petrology, volcanology, geochemistry). BS, 1986, George Washington University; PhD, 1991, California, Berkeley. (2001)

James M. Watkins, associate professor (experimental petrology, geochemistry, volcanology). BS, 2005, Wisconsin, Eau Claire; PhD, 2010, Cailfornia, Berkeley. (2012)

Research Staff

Andrew Hadlock, research assistant. BS, 2018, Florida (2019)

Sara Meyer, field technician. BS, 2010, California, Santa Cruz; IT specialist certification, 2015, Alaska, Fairbanks. (2017)

Leland O'Driscoll, seismic field technician. PhD, 2012, Oregon (2015)

James Palandri, research associate. PhD, 2000, Oregon. (2001)

Silas Thoms, research assistant. BS, 2019, Oregon State (2019)

Lucy Walsh, research assistant. MS, 2012, Oregon. (2017)

Emeriti

Eugene D. Humphreys, professor (seismology, regional tectonics). BS, 1974, MS, 1978, California, Riverside; PhD, 1985, California Institute of Technology. (1985)

A. Dana Johnston, professor (experimental petrology, geochemistry). BS, 1976, Bates; MS, 1978, PhD, 1983, Minnesota. (1986)

M. Allan Kays, professor emeritus. BA, 1956, Southern Illinois; MA, 1958, PhD, 1960, Washington (St. Louis). (1961)

William N. Orr, professor emeritus. BS, 1961, Oklahoma; MA, 1963, California, Riverside and Los Angeles; PhD, 1967, Michigan State. (1967)

Mark H. Reed, professor (mineral deposits, aqueous geochemistry). BA, 1971, Carleton; MS, 1974, PhD, 1977, California, Berkeley. (1979)

Jack M. Rice, professor emeritus. AB, 1970, Dartmouth College; MS, 1972, PhD, 1975, Washington (Seattle). (1977)

Norman M. Savage, professor emeritus. BSc, 1959, Bristol; PhD, 1968, Sydney. (1971)

Ray J. Weldon, professor (neotectonics, structural and quaternary geology). BA, 1977, Pomona; PhD, 1986, California Institute of Technology. (1987)

The date in parentheses at the end of each entry is the first year on the University of Oregon faculty.

Undergraduate Programs

Major - Bachelor's Degree

- Earth Sciences (BA/BS) (https://catalog.uoregon.edu/arts-sciences/natural-sciences/earth-sci/ug-earth-sciences/)

Minor

- Earth Sciences (https://catalog.uoregon.edu/arts-sciences/natural-sciences/earth-sci/min-earth-sciences/)

Graduate Programs

Major - Master's Degree

- Earth Sciences (MS) (https://catalog.uoregon.edu/arts-sciences/natural-sciences/earth-sci/mas-earth-sciences/)

Major - Doctoral Degree

- Earth Sciences (PhD) (https://catalog.uoregon.edu/arts-sciences/natural-sciences/earth-sci/phd-earth-sciences/)