

## LYDIA K. FOX

Department of Geological & Environmental Sciences  
University of the Pacific  
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### PRESENT POSITIONS:

Associate Professor, Department of Geological and Environmental Sciences, University of the Pacific,  
Stockton, CA 95211

Director of Undergraduate Research, University of the Pacific, Stockton, CA 95211

Director of Environmental Studies Program, University of the Pacific, Stockton, CA 95211

### PROFESSIONAL EXPERIENCE:

#### Administrative:

Director of Undergraduate Research, University of the Pacific (2010-present)

Director, Environmental Studies Program, University of the Pacific (2004-present)

Chair, Department of Geological & Environmental Sciences, University of the Pacific (1998-2014)

#### Academic:

Associate Professor, Geological & Environmental Sciences, University of the Pacific (1995-present)

Assistant Professor, Department of Geology & Geography, Univ. of the Pacific (1990-1995)

Visiting Assistant Professor, Dept. of Geological Sciences, Calif. State Univ., Northridge, (1988-1990)

Teaching Associate, Department of Geological Sciences, UC Santa Barbara (Fall 1987)

Teaching Assistant, Department of Geological Sciences, UC Santa Barbara (1984-1988)

#### Non-Academic:

Geologist, U. S. Geological Survey, Menlo Park, CA 92540 (1985-1989)

Physical Science Technician, U. S. Geological Survey, Menlo Park, CA (1983-85)

Geological Field Assistant, U. S. Geological Survey, Menlo Park, CA (1982-83)

Field Engineer, Schlumberger Well Services, Opelousas, LA (1981-82)

### EDUCATION:

Ph.D., Geological Sciences, University of California, Santa Barbara, 1989

Dissertation title: Albitization of Jurassic plutons in the southern Bristol Mountains, east-central Mojave Desert, southeastern California.

B.S.E., Geological Engineering, Princeton University, 1981

Senior Thesis: Compositional variations and implications of petrogenesis of the Kernville pluton, southern Sierra Nevada, California.

### RESEARCH EXPERIENCE

My main area of research has been granite geochemistry, in particular Cordilleran Mesozoic granites and albitization of granites. I have also been involved in pedagogical work of various forms. I am also active in faculty development work related to undergraduate research and have facilitated numerous faculty workshops in this area for new and future faculty over the past 20 years.

### SELECTED RECENT PUBLICATIONS/ABSTRACTS:

Fox, L. K., 2019, Incorporating GeoHealth into the Curriculum When There is not Room for a New Course, Geological Society of America Abstracts with Programs, v. 51, no. 5, doi: 10.1130/abs/2019AM-335329

Fox, L. K., Fortner, S. K., Kraal, E., and Wilson, C., 2018, Designing Course-based Undergraduate Research Experiences (CURES) to address science literacy. Geological Society of America *Abstracts with Programs*, vol. 50, No. 6, doi: 10.1130/abs/2018AM-322439.

- Fox, L. K., 2017, Less is More: The transformative impact of the 2003 “Teaching Petrology in the 21<sup>st</sup> Century” “On the Cutting Edge” Workshop, Geological Society of America *Abstracts with Programs*, vol. 49, No. 6, doi: 10.1130/abs/2017AM-304103
- Barth, A.P, Wooden, J.L., Miller, D.M, Howard, Fox, L.K., Schermer, E.R., and K. A., Jacobsen, C. E., Regional and temporal variability of melts during a Cordilleran magma pulse: Age and chemical evolution of the Jurassic arc, eastern Mojave Desert, California. Geological Society of America Bulletin, March 2017, v. 129, no. 3-4, p. 429-448, doi:10.1130/B31550.1)
- Fox, L. K., 2016, Writing to Learn: Use of informal writing assignments to deepen comprehension in geology and environmental science courses, Geological Society of America Abstracts with Programs, vol. 48, No. 7, doi: 10.1130/abs/2016AM-279750
- Fox, L. K., 2015, Putting research in context: an environmental policy project in a writing-intensive capstone course, Geological Society of America Abstracts with Programs, vol. 47, No. 7.
- Fox, L.K., and Guertin, L. A., 2013, Faculty development workshops to support establishing and sustaining undergraduate research programs in the earth sciences, presented (invited) at the 2013 Fall meeting of the American Geophysical Union, San Francisco, 10 December (ED23E-05)
- Fox, L.K., Guertin, L.A., Manley, P.L., and Pollock, Meagen., (2013) Undergraduate research as effective pedagogy supported by the Geosciences Division of the Council on Undergraduate Research, Geological Society of America *Abstracts with Programs*, vol 45, no 7, p. 733

#### **HONORS/AWARDS:**

- Distinguished Faculty Award, University of the Pacific (2018)
- Fellow of the Geological Society of America (elected 2016)
- Faye & Alex Spanos Distinguished Teaching Award, University of the Pacific (2009)
- Thomas J. Long Foundation Core Fellowship, University of the Pacific (2007-2008)

#### **HONOR SOCIETY MEMBERSHIPS:**

- Phi Kappa Phi
- Sigma Gamma Epsilon
- Sigma Xi

#### **PROFESSIONAL SOCIETY AFFILIATIONS:**

- American Association for the Advancement of Science (AAAS)
- American Association of Colleges & Universities (AAC&U)
- American Geophysical Union (AGU)
- Association of Women Geoscientists (AWG)
- Council on Undergraduate Research (CUR)
- Geological Society of America (GSA)
- Mineralogical Society of America (MSA)
- National Association of Geoscience Teachers (NAGT)

#### **SELECTED GRANTS:**

- National Science Foundation, Robert Noyce Teacher Scholarship Program (1852939), “Recruiting, Preparing, and Retaining STEM Teachers in San Joaquin County, California”, (\$1,447,587). 2019-2024
- National Science Foundation, CCLI (Course, Curriculum and Laboratory Improvement) (0841267), “Faculty development workshops to support engagement in undergraduate research” (\$49,000), 2009-2013