

Lauren Shumaker

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EDUCATION

Ph.D. student, Geosciences – Stanford University (*expected completion, autumn 2015*)

Bachelor of Arts, Earth Sciences & Anthropology, June 2009 – University of California, Santa Cruz
Cumulative GPA: 3.87

AWARDS & HONORS

- University Honors – June 2009
- Magna Cum Laude – June 2009
- Phi Beta Kappa – June 2009
- Highest honors in the major – June 2009
- Stevenson College Honors – June 2009
- Kathryn D. Sullivan Scholarship – Dec 2008

WORK EXPERIENCE

- **Post-Grad Intern**, Shell Oil, June 2012 – August 2012

Worked in Petrel 2011 to analyzed 3D seismic data from Taranaki Basin, New Zealand; extracted stratigraphic horizons to generate imagery of submarine shelf and slope depositional systems; quantified planform geometries of these systems and analyzed their temporal evolution in the context of Taranaki Basin depositional and tectonic history.

- **Laboratory Technician**, UCSC, March 2011 – June 2011

Maintained and organized all field-related equipment for the Earth and Planetary Sciences Department; catalogued and maintained teaching collections, including maps, rock samples, and instruments; assisted with lab preparation for visiting users.

- **Course Assistant, Introductory Field Geology**, UCSC, Sept 2010 – June 2011

Provided instruction and assistance on basic field techniques including mapping, stratigraphic and structural analysis, and interpretation of field data; prepared lesson plans and supervised weekly laboratories and office hours; assisted students during weekend field trips.

- **Lab Assistant**, Applied Paleomagnetism, Inc., Feb 2010 – March 2010

Helped prepare, label, and demagnetize paleomagnetic samples from drilled cores; identified lithologies and noted placement of fractures along core samples.

- **Geologist**, NAGT/USGS Cooperative Summer Internship, June 2009 – Oct 2009

Researched sedimentary basin/aquifer recharge potential and verified published geologic maps with field work in California and Nevada; analyzed mud logs and electronic well logs for lithologic and textural information; input data for interpretation in mapping and modeling software.

- **Instructional Assistant, California Geology**, UCSC, Sept 2008 – Dec 2008

Supervised weekly laboratory section of 20 undergraduates; prepared lesson plans and lectured on basic concepts of geology; held weekly office hours and two review sessions for 30-40 students.

RESEARCH AND PUBLICATIONS

- Sweetkind, D.S., Bova, S.C., Langenheim, V.E., **Shumaker, L.E.**, and Scheirer, D.S., 2013, Digital tabulation of stratigraphic data from oil and gas wells in Cuyama Valley and surrounding areas, central California: U.S. Geological Survey Open-File Report 2013-1084, 44 p., <http://pubs.usgs.gov/of/2013/1084/>.
- **Shumaker, L. E.**, Lippert, P.C., Darby, B.J., Ritts, B.D., and Coe, R.S., Dec. 2010, Post-

Cretaceous Sinistral Transpression in Southwest Alxa: Structural and Paleomagnetic Insights into the Long-Term Slip History of the Altyn Tagh Fault: EOS Trans AGU Fall Meet. Suppl., 91, Abstract T43B-2191, San Francisco, Calif., 13-17 Dec.

- Sweetkind, D.S., Langenheim, V.E., and **Shumaker, L.E.**, 2010, Configuration and lithology of Mesozoic basement beneath the Santa Maria basin, CA from analysis of borehole data: Geological Society of America Abstracts with Programs, v. 42. no. 4, p. 79.
- Taylor, E.M., Sweetkind, D.S., Garcia, A.G., and **Shumaker, L.E.**, 2010, Terrain analysis and geologic field investigations used to constrain drainage evolution and basin-filling history within and near the northern Salinas Valley groundwater basin, Central California Coast Range: Geological Society of America Abstracts with Programs, v. 42. no. 4, p. 79.
- Sweetkind, D.S., Tennyson, M.E., Langenheim, V.E., and **Shumaker, L.E.**, 2010, Digital tabulation of stratigraphic data from oil and gas wells in the Santa Maria Basin and surrounding areas, central California coast: U.S. Geological Survey Open-File Report – 1129, 11 p.
- Sweetkind, D.S., Faunt, C.C., Hanson, R.T., Taylor, E.M., Everett, R., and **Shumaker, L.E.**, Oct. 2009, Developing a 3-D subsurface map to evaluate water availability in Cuyama Valley, CA: Geological Society of America *Abstracts with Programs*, Vol. 41, No. 7, p. 280, Portland, Oregon, 18-21 Oct.
- **Shumaker, L.E.**, 2010, Paleomagnetism of Middle Cretaceous Xinminpu Group, West Hei Shan, Western China: Implications for long-term slip history of the Altyn Tagh Fault (Undergraduate Thesis); advised by Dr. Robert Coe and Peter Lippert, University of California at Santa Cruz, Santa Cruz, Calif.