

Lisa Kant

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University of Wyoming Department of Geology and Geophysics

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Education:

PhD Student, Geology, University of Wyoming, Laramie, WY

Utilizing U-Th series isotopes along with other geochemical methods to examine the processes and timescales of magmatism in continental arcs, particularly the Northern Volcanic Zone of the Andes (adviser: Dr. Ken Sims)

BS Geology, University of Puget Sound, Tacoma, WA, May 2013

- Magna Cum Laude with Honors in Geology
- 3.8 GPA overall; 3.97 within major
- Senior Thesis: “The Eocene Basalt of Summit Creek, Central Cascades, Washington: Magmatism Associated with Farallon Slab Breakoff” (adviser: Dr. Jeff Tepper)

Previous Research:

Senior Thesis at the University of Puget Sound: “The Eocene Basalt of Summit Creek, Central Cascades, Washington: Magmatism Associated with Farallon Slab Breakoff”

- Conducted a geochemical and isotopic study of the Basalt of Summit Creek to determine the causes of compositional diversity and the tectonic setting in which it formed, with the overall goal of gaining further understanding of Pacific Northwest tectonics during the Eocene
- Analyzed samples by ICP-OES and SEM-EDS at the University of Puget Sound and performed Sr and Nd isotopic separations at the University of Washington
- Preparing a manuscript for publication

Incorporated Research Institutions for Seismology and Oregon State University; Summer Research Intern 2011

- Built a crustal velocity model for Pleasant Valley, NV, based on p-wave travel times from local, regional and global earthquakes
- Installed an array of broadband seismometers in north-central NV

Teaching Experience:

Teacher’s Assistant, Physical Geology Lab, University of Wyoming, Fall 2015

- Taught and supervised lab sessions for the introductory geology course
- Worked with students to make sure they understood the material
- Graded assignments

Professional Experience:

Wellsite Geologist, Columbine Logging, Denver, CO, July 2014-March 2015

- Analyzed cuttings lithology and monitored other parameters such as gas levels and gamma during drilling to create a mudlog detailing downhole geology
- Prepared detailed reports for the client 1-2 times each shift
- Gained familiarity with the stratigraphy of the Denver-Julesburg, Uintah and Powder River basins

Intern, Walsh Ecuador, Quito, Ecuador, September 2013-January 2014

- Assisted with preparation of environmental impact assessments and management plans for projects related to oil and gas development, tourism, and conservation
- Played a leadership role in the planning, field work and initial report writing for a study assessing the hydrological, geomorphological and biological impacts of sewage discharge on a sensitive fish habitat
- Vastly improved my proficiency in Spanish (speaking and reading), including my understanding of technical and scientific documents

Presentations:

- Kant, L.B., Tepper, J.H. and Eddy, M.P. (2015), Basalt of Summit Creek: Eocene Magmatism Associated with Slab Break Off, Abstract V23C-03 presented at the 2015 Fall Meeting, AGU, San Francisco, CA, 14-18 Dec.
- Kant, L.B., Sims, K.W.W., Matthews, T.P., Scott, S.R., Garrison J.M., Yogodzinski, G.M., Blichert-Toft, J., Reagan, M.R., Hidalgo, S., Mothes, P.A., and Hall, M. (2015), Using U-Series Isotopes to Investigate the Effects of Thick Continental Crust on Arc Volcanics: Insights from Reventador Volcano, Ecuador, presented at the GeoPRISMS Subduction Cycles and Deformation Theoretical and Experimental Institute, Redondo Beach, CA, 11-14 Oct.
- Kant, L.B., Tepper, J.H. and Nelson, B.K. (2012), Petrology of the Basalt of Summit Creek: A [Slab] Window into Pacific Northwest Tectonics during the Eocene, Abstract T23E-2732 presented at 2012 Fall Meeting, AGU, San Francisco, CA, 3-7 Dec.
- Kant, L.B., Nabelek, J. and Braunmiller, J. (2011) Crustal Structure beneath Pleasant Valley, Nevada from Local and Regional Earthquake Travel Times, Abstract S41A-2149 presented at 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec.

Honors and Awards:

- Wyoming Women in Science and Engineering Travel Grant, Fall 2015
- Women and Minorities Graduate Assistantship, University of Wyoming, Fall 2015-Fall 2016
- Norman R. Anderson Award for University of Puget Sound outstanding geology major, 2013
- Wiseman Scholarship for academic achievement in geology, University of Puget Sound, 2012
- University of Canterbury (NZ) Study Abroad Scholarship, Spring 2012
- NSF REU award through the Incorporated Research Institutions for Seismology Internship Program, 2011
- Geological Society of America Subaru Minority Student Scholarship, Cordilleran Section, 2011
- Coy and Nadine Mobley Geology Scholarship, University of Puget Sound, 2010
- Dean's List, University of Puget Sound, Fall 2009 and Fall 2010

Affiliations:

- American Geophysical Union, Geological Society of America, Association of Women Geoscientists, Phi Kappa Phi, Phi Beta Kappa, Phi Eta Sigma