

Jonathan P. Perkins

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EDUCATION

- 2015 (exp.) Ph.D., University of California Santa Cruz**
Unraveling the history of tectonics, magma chamber dynamics, and surface erosion recorded in the topography of volcanic landscapes
Principal Advisor: Prof. Noah J. Finnegan
Committee: E.E. Brodsky, D.M. Rubin, J.K. Hourigan
- 2007 B.S., Geology (magna cum laude), San Francisco State University**
Estimating bedrock incision rates using ^{21}Be and ^{26}Al derived from strath terrace gravels, Bullfrog Creek, Utah
Principal Advisor: Prof. Leonard Sklar

PROFESSIONAL EXPERIENCE

- 2009- *Research and Teaching Assistant, UC Santa Cruz*
2010 *Research Assistant, Long Valley Observatory, US Geological Survey*
2007-2009 *Junior Specialist, Cosmochemistry, UC Berkeley Space Sciences Lab*
2004-2007 *Research Assistant, SFSU/USGS Fault Creep Monitoring Project*
2005 *Research Assistant, SFSU/USGS 1906 Earthquake Centennial Fault Re-photographing Project*

AWARDS, HONORS, AND FELLOWSHIPS

- 2011-2013 University of California Mildred E. Mathias Grant
2009 & 2010 Honorable Mention, NSF Graduate Fellowship Program
2009 National Center for Airborne Laser Mapping Seed Proposal
2007 Departmental Honoree (Outstanding Senior), SFSU
2006-2007 Dowdy Undergraduate Research Grant, SFSU

PROFESSIONAL SERVICE AND ACTIVITIES

Press interviews

- "Zombie volcano or new super volcano?" *Discovery News*, 2011
"Rapidly inflating volcano creates growing mystery," *Yahoo! News*, 2011

PROFESSIONAL SERVICE AND ACTIVITIES (CONT.)

Education Outreach

Science Advisor, Levity Lab's Earth Primer interactive geology iPad app (release date early 2015 - <http://www.levitylab.com/blog/2011/10/geology-primer-trailer/>)

Author, "Zombie volcano or proto-pluton? Geomorphic insights into mid-crustal magmatic intrusion beneath Volcán Uturuncu, Bolivia," *UCSC EPS Department Newsletter*, 2013

Field Trip Leader, Tour of Glen Canyon and the Henry Mountains, NSF SF-ROCKS National Parks Program for under-represented high school students, June 2008

Invited Talks

"Bedrock canyon incision by wind: observations from the Central Andes and implications for the surface evolution of Mars," *California Institute of Technology Geology Club Seminar*, May 29, 2014

"Wind canyons and zombie volcanoes: extreme geomorphology in the Central Andes", *San Francisco State University Distinguished Alumni Lecture*, Feb. 2014; *Humboldt State University*, Oct. 2013

Conference Proceedings and Short Courses

Co-convener, AGU 2014 Session EP51F: Aeolian Geomorphic, Sedimentary, and Atmospheric Processes

Student Volunteer, Goldschmidt 2014

Utah State University OSL Summer School, 2011

UCSC

Graduate Student Representative, UCSC Faculty Search Committee for Open Position in Inorganic Geochemistry/Geodynamics, 2013

Graduate Student Representative to the Faculty, UCSC Dept. of Earth and Planetary Sciences, 2011-2013

TEACHING EXPERIENCE

TA

Introduction to Geologic Mapping	2010, 2014
Geomorphology	2011, 2012
Structural Geology	2013
Remote Sensing	2014
Advanced Field Geology and GIS	2012, 2014

Guest Lectures

"Sedimentary Structures," Intro to Field Geology	2014
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TEACHING EXPERIENCE (CONT.)

"Wind Erosion," UCSC Planetary Geology	2014
"Landslides," UCSC Environmental Geology	2012

Mentoring

Nakul Desphande, BS, 2013. Senior Thesis and 2012 AGU Poster title: "Debris flow control on fluvial hanging valley formation, South Fork Eel River, CA"

FIELD EXPERIENCE

Central Andes and Atacama Desert, *Dissertation research*, 2010-2013
Long Valley Caldera, CA, *Dissertation Research*, 2010-2013
Long Valley Caldera, CA, *USGS Campaign GPS deployment*, 2010
Bullfrog Creek, Utah, *B.S. Senior Thesis Research*, 2006, 2007, 2008, 2011
Western Montana, *Indiana University Field Camp (student)*, 2006
Greater Bay Area, CA, *Total station surveys of creeping faults (employee)*, 2004-2007

Assistant

Gabilan Mesa, CA, *Topographic and soil depth surveys*, 2014
Swiss Alps, *Seismometer deployment*, 2013
South Fork Eel River, CA, *Geochronology and shallow geophysics*, 2009, 2012
Arroyo Seco, CA, *Geochronology sampling*, 2012
Eastern Sierra Nevada, *Soil pit surveys*, 2008
Fossil Creek, AZ, *Magnetometer surveys of travertine dams*, 2006, 2007