

Adam Charles Curry

Chemin de Grange-Canal 16 • Chêne-Bougeries, Switzerland • +33 6 26 45 51 77 • adam.curry@unige.ch

Education

- 2016 - Ph.D. (*in progress*), Earth Sciences, University of Geneva, Switzerland
Dissertation: Understanding the chemical, thermal, and physical processes of four large ignimbrites in rapid succession in the Southern Rocky Mountain Volcanic Field, Colorado, USA
Advisor: Luca Caricchi
- 2013 M.S., Geological Sciences, University of North Carolina, Chapel Hill, NC
Thesis: The role of shear heating in producing crystal-poor obsidian
Advisor: Allen Glazner
- 2010 B.A., Geology, Pomona College, Claremont, CA
Senior Thesis: Geochemical investigation of the Red Cinder Peak area of Makushin Volcano, Unalaska, AK
Advisor: Jade Star Lackey

Research experience

- 2016 - Research Assistant, Department of Earth Sciences, University of Geneva, Switzerland
Supervised by Luca Caricchi
- 2011-13 Research Assistant, Department of Geological Sciences, University of North Carolina, Chapel Hill, NC
Supervised by Allen Glazner
- 2010 Research Assistant, Department of Earth Sciences, University of Oregon, Eugene, OR
Supervised by Ilya Bindeman
- 2010 Research Assistant, Geology Department, Pomona College, Claremont, CA
Supervised by Jade Star Lackey and Eric Grosfils

Professional Experience

- 2013-16 Professional Geologist, AECOM
(07/2015 – 05/2016) Deputy project manager, Austin, TX
(11/2013 – 06/2015) Staff geologist and field supervisor, Raleigh, NC
- 2010-11 Environmental Field Scientist, Professional and Technical Support Services, Baton Rouge, LA

Teaching Experience

- 2016-17 Teaching Assistant, University of Geneva: Magmatic Petrology
- 2017-18 Teaching Assistant, University of Geneva: Physical Volcanology (with Field Course)
- 2012-13 Teaching Assistant, UNC: Petrology and Plate Tectonics
- 2012 Head Teaching Assistant, UNC: Introduction to Geology

2011 Graduate Research Consultant, UNC: Geology of California
2011 Teaching Assistant, UNC: Introduction to Geology

Professional Certificates

- North Carolina Professional Geologist, license #2434
- Texas Professional Geoscientist, license #12213
- OSHA 40-hour HAZWOPER
- OSHA 8-hour HAZWOPER Supervisor

Technical Experience

- Scanning electron microscopy, electron probe microanalyzer, secondary-ion mass spectrometry, and laser ablation-inductively coupled plasma-mass spectrometry
- Chemical abrasion-isotope dilution-thermal ionization mass spectrometry
- COMSOL Multiphysics finite-element modelling software
- Matlab, R, Fortran
- ArcGIS
- GeoProbe drill rigs 7730, 6620, and 54 TR, and GeoProbe direct sensing EC, MIP, and HPT probes

Field Camps

2010 International Volcanology Field School, Institute of Volcanology and Seismology, Kamchatka, Russia
2009 Frontiers Abroad Field Camp, Frontiers Abroad, New Zealand
2008 Field Methods in Volcanology, University of Hawaii, Hilo, HI

Grants

2012 Valentine Eastern Sierra Reserve Student Research Grant (\$500), University of California
2012 Grant-In-Aid-Of-Research (\$400), Sigma Xi

Honors

2013 Walter H. Wheeler Teaching Award, UNC Chapel Hill
2010 Richard E. Strehle Award, Pomona College
2010 Isabel F. Smith and Donald H. Zenger Award, Pomona College

Professional Affiliations

2010 - Geological Society of America
2010 - American Geophysical Union
2010 - Sigma Xi

Professional Research Talks

2017 International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI), Portland, OR
2013 Anadarko Research Symposium, Chapel Hill, NC
2010 Keck Research Symposium, Houston, TX

Publications

Papers (In prep)

Curry, A.C. and Caricchi, L., Physical and chemical processes controlling four large ignimbrites in the central San Juan Caldera Cluster, Southern Rocky Mountain Volcano Field, Colorado.

Curry, A.C., Glazner, A.F., Grosfils, E.B., The role of shear heating in the formation of obsidian.

Chapters

Curry, A., 2010, Geochemical Investigation of the Red Cinder Point Area of Makushin Volcano, Unalaska, Alaska, in Keck Geology Consortium Proceedings of the Twenty-Third Annual Keck Research Symposium in Geology, 328-334, <https://keckgeology.org/files/pdf/symvol/23rd/Unalaska/Curry.pdf>.

Abstracts

Curry, A.C., Caricchi, L., and Lipman, P., 2017, Determining the physical and chemical processes behind four caldera-forming eruptions in rapid succession in the San Juan caldera cluster, Colorado, USA, Abstract V11C-0364 presented at 2017 Fall Meeting, AGU, New Orleans, Louisiana, 11-15 December.

Curry, A.C., Caricchi, L., and Lipman, P., 2017, Determining the physical and chemical processes behind four caldera-forming eruptions in rapid succession in the San Juan caldera cluster, Colorado, USA, Abstract ME42A-1 presented at 2017 IAVCEI Scientific Assembly, Portland, Oregon, 14-18 August.

Curry, A.C., Caricchi, L., and Lipman, P., 2017, Determining the physical processes behind four large eruptions in rapid sequence in the San Juan caldera cluster (Colorado, USA), Geophysical Research Abstracts, vol. 19, EGU2017-18630, EGU General Assembly 2017, Vienna, Austria.

Curry, A.C., 2013, The role of shear heating in obsidian formation within volcanic conduits, Abstract V21B-2716 presented at 2013 Fall Meeting, AGU, San Francisco, California, 9-13 December.

Curry, A.C., 2013, The role of shear heating in the formation of obsidian: Geological Society of America Abstracts with Programs, v. 45, no. 6, 14-15

Nicolaysen, K.E., **Curry, A.C.**, Goldberg, A., Wobus, R.A., Lackey, J.S., Hazlett, R.W., and Bindeman, I.N., 2010, Thermobarometry, argon dating and oxygen isotope geochemistry of the Pleistocene Pt. Tebenkof ignimbrite, Makushin Volcano, AK, Abstract V11D-2334 presented at 2010 Fall Meeting, AGU, San Francisco, California, 13-17 December.