

# SIMONE MANGANELLI

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## Profile

Master's and Bachelor's degree in geology from Stanford. Publications and research in geochronology and volcanology, with practical experience in geochronological lab techniques and field work in volcanology.

## Education

Stanford University, Stanford, CA — Master's Degree, Geological and Environmental Sciences, 2009. Relevant geology coursework: GEOPHYS 288 (Crustal Deformation), GES 215A (Advanced Structural Geology and Rock Mechanics), CEE 297H (Advanced Structural Geology and Rock Mechanics II), GEOPHYS 150 (General Geophysics and Physics of the Earth), GES 165 (Radiogenic Isotopes and Geochronology), GES 179 (Silicic Volcanism: Processes, Products, and Related Volcaniclastic Sequences)

Stanford University, Stanford, CA — Bachelor's Degree, double major in Geological and Environmental Sciences with honors and Mathematics, with a minor in Italian language, 2005. Relevant geology coursework: GES 185 (Volcanology), GES 161 (Geostatistics), GES 181 (Igneous and Metamorphic Processes), GES 131 (Fluvial Systems and Landscape Evolution), GEOPHYS 185E (Tectonics), GES 130 (Soil Physics and Hydrology), GES 122 (Water on Mars)

## Publications

"Iceland: A Geologic Field Guide", Field Guide, January 2011, co-author. [http://pangea.stanford.edu/groups/SAP/previous\\_expeditions/Iceland/Iceland\\_2009.html](http://pangea.stanford.edu/groups/SAP/previous_expeditions/Iceland/Iceland_2009.html)

"Thermochronologic Implications of Low-Temperature (100-300°C) Ar Diffusion in Basaltic Glass", Poster Presentation, AGU 2010, lead author.

"Ar Diffusion in Basaltic Glass and Implications for Thermochronology in Oceanic Ridge Settings", Oral Presentation by co-author, Goldschmidt 2010, lead author.

"New  $^{40}\text{Ar}/^{39}\text{Ar}$  ages reveal contemporaneous mafic and silicic eruptions during the past 160,000 years at Mammoth Mountain and Long Valley caldera, California", March 2010 GSA Bulletin, co-author.

"Low-Temperature (100-300°C)  $^{39}\text{Ar}$  Diffusion in Basaltic Glass Measured Using Image Furnace Methods", Stanford University Master's Thesis, December 2009, author.

"Linking Rhyolitic Eruptions and Basaltic Intrusions, and the Implications of the Java Islet Eruption in Mono Lake within the Long Valley Caldera/Mammoth Mountain/Inyo Craters Magmatic System", Stanford University Honors Thesis, May 2005, author.

## Experience

Member, Stanford Alpine Project. Helped organize, coordinate, and conduct 2.5-week geologic field trip to the Indian Himalayas, 2001.

Organized, developed, participated in, and led a 2-week field trip to Iceland, 2009.

President, Stanford Alpine Project, a Stanford student group, 2008-2009.