

Maria Brumm
(510) 282-0844
maria.brumm@gmail.com

3005 NW Market St. #A101
Seattle, WA 98107

Education

M.S., Earth and Planetary Science May 2008
University of California, Berkeley Berkeley, CA
Thesis title: *Ground water in tectonically active areas: Implications for heat flow and the triggered eruption of mud volcanoes*

B.S., Geophysics June 2003
California Institute of Technology Pasadena, CA

Experience

Graduate Student Researcher 2006-2008
University of California, Berkeley Berkeley, CA

- Used spring temperatures and stable isotope compositions to investigate the hydrogeology of a mountain basin
- Created a new seismic attenuation relationship for Indonesia
- Investigated relationships between seismic liquefaction, mud rheology, and mud volcano eruption

Graduate Student Instructor Fall 2006
"Earthquakes in Your Backyard" Fall 2007
University of California, Berkeley Berkeley, CA

- Presented information on seismic hazards and mitigation to a general audience
- Developed curriculum material, including PHP programming for web-based homework

Staff Geohydrologist July 2003 – May 2005
GEOSCIENCE Support Services, Inc. Upland, CA

- Developed an ArcView application to assess liquefaction hazard
- Conducted drinking water source protection evaluations and water quality sampling
- Analysis and technical writing for a variety of projects related to ground water resources evaluation and management, including project EIRs.

Additional Experience: Undergraduate teaching assistant, web designer, bench clerk for At the Crossroads of Law and Technology conference, summer undergraduate research fellowship in the history of astronomy

Technical Skills

Software experience: ArcView/ArcGIS, 3D Analyst, Spatial Analyst, Groundwater Vistas (MODFLOW 2000), Adobe Illustrator, Adobe Photoshop, Microsoft Access, Microsoft Excel, Microsoft Word, LaTeX. Proficient with all major operating systems including Unix/Linux.

Development experience: ESRI Avenue, MATLAB, PHP, Perl, HTML/XHTML/CSS.

Publications

M. Brumm, C.-Y. Wang, and M. Manga (2008) Spring temperatures in the Sagehen Basin, Sierra Nevada, California: Implications for heat flow and ground water circulation. *Geofluids* (in review).
M. Brumm, M. Manga, and M.L. Rudolph (2008) Earthquake triggering of mud volcanoes: a review. *Marine and Petroleum Geology* (in review).
R. Davies, M. Brumm, M. Manga, R. Rubiandini, and R. Swarbrick (2008) The East Java mud volcano (2006 to present): an earthquake or drilling trigger? *Earth and Planetary Science Letters* (in press).