

Marika Piirak Dalton
106 West South Avenue
Houghton, Michigan 49931
mpdalton@mtu.edu
(906) 281-6201

Education

Michigan Technological University Expected July 2009
Houghton, MI

Doctor of Philosophy, Geology
Dissertation research: Degassing mechanisms investigated
by remote sensing of volcanic plumes with UV imagery and
coincident seismicity

Michigan Technological University 2006
Houghton, MI

Master of Science, Geology
Thesis title: "Investigation of the 2002 Reventador, Ecuador
Eruption Using Satellite-Based Remote Sensing"

Vassar College
Poughkeepsie, NY
Bachelor of Arts, Geology 2000
Thesis title: "A Study in Avalanches: The Validity of GIS
Prediction Modeling and a Submarine Landslide Analogy"

Appointments

2003 – present	Michigan Technological University, Research Assistant
2002	Hawaiian Volcano Observatory, Student Volunteer
2000 – 2001	Weiss Associates, Staff Geologist
1999 – 2000	Vassar College, Geology Department Academic Intern

Publications and Presentations

Dalton, M.P., I.M. Watson, P.A. Nadeau, C. Werner, & W. Morrow (in USGS
review) Calibration of the UV camera SO₂ retrieval for point source plumes.
Dalton, M.P., G.P. Waite, P.A. Nadeau, I.M. Watson (2008) Comparing SO₂
emissions to seismic and acoustic records: the value and limitations of the
new UV camera technique, AGU Fall Meeting Supplement, Abstract V51E-
2094
Dalton, M.P. (2006) Investigation of the 2002 Reventador, Ecuador Eruption
Using Satellite-Based Remote Sensing. M.S. thesis, Mich Tech U.

- Dalton, M.P., G.J.S. Bluth, A.J. Prata, I.M. Watson, S.A. Carn (2006) Ash, SO₂, and Aerosol Analysis of the November 2002 Eruption of Reventador Volcano, Ecuador Using TOMS, HIRS, and MODIS Satellite Sensors, presentation at Cities on Volcanoes 4, Quito, Ecuador.
- Dalton, M.P., Head, E.M., Bluth, G.J.S., Rose, W.I., Molina, E., Toorongian, J.E. (2003) Integration of Seismic and Video Records of Eruptive Activity on Santiaguito Volcano, Guatemala, Eos. Trans, AGU, 84(46), Fall Meet. Suppl., Abstract V52B-0431.
- Head, E.M., Dalton, M.P., Bluth, G.J.S., Rose, W.I. (2003) Santiaguito Volcano, Guatemala: A Study of Vent Dynamics Over the Past 50 Years, Eos. Trans, AGU, 84(46), Fall Meet. Suppl., Abstract V42B-0362.
- McAdoo, B.G., Dalton, M., (2000) Snow avalanches and submarine landslides, Mt. Washington (NH) and the Eel River basin, Abstracts with Programs- Geological Society of America. 32, no.7:373

Awards

- 2008 MTU Nancy Schofield Scholarship
2006 MTU Charles DeVlieg Foundation Fellowship
2000 Vassar Erminnie A. Smith Award