

GLEN STEVEN MATTIOLI

Current Position and Address:

Director, Geodetic Infrastructure program, UNAVCO Inc., Boulder, CO
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Professional Preparation:

1988-1989: Research Fellow, University of California, Berkeley, CA
1986-1988: Dr. Chaim Weizmann Research Fellow, Caltech, Pasadena, CA
1982-1987: Ph.D., Northwestern University, Evanston, IL
1980-1982: M.S., Northwestern University, Evanston, IL
1976-1980: B.A. University of Rochester, Rochester, NY

Graduate Advisor and Post-Doctoral Sponsors:

Bernard J. Wood, Northwestern University (now at Oxford University) - PhD
Edward M. Stolper, Caltech; Ian Carmichael, UC Berkeley (deceased) – Post-doctoral

Previous Appointments:

2010-2015: Professor, Dept. Earth & Env. Scis., University of Texas at Arlington
2002-2010: Professor, Dept. Geosciences, University of Arkansas
2004-2007: Member of the UNAVCO Facility Standing Committee
2001-2002: Program Director, Geochemistry and Petrology, Division of Earth Sciences, Directorate of Geosciences, National Science Foundation
1995-2002: Executive Committee member and Co-Investigator, NASA-URC *Tropical Center for Earth and Space Studies*
1995-2014: Member of the International Science Team, Montserrat Volcano Observatory, Plymouth, Montserrat, BWI
1992-1994: Visiting Associate in Geology, California Institute of Technology
1992-2002: Asst., Assoc., and Professor of Geology, UPR Mayagüez Campus
1990-1991: Research Geologist, ARCO Oil and Gas Co., Plano, TX
1989-1990: Associate Scientist, Geology, California Institute of Technology

Products: ten selected recent publications (2010-present):

Mattioli, G.S., D.A. Phillips, K.M. Hodgkinson, C. Walls, D.J. Mencin and 15 others, 2020, The GAGE Data and Field Response to the 2019 Ridgecrest Earthquake Sequence, *Seismological Research Letters* Data Mine Focus Section on the 2019 Ridgecrest Earthquake Sequence, *Seismological Research Letters* (2020) 91 (4): 2075–2086. doi: <https://doi.org/10.1785/0220190283>
Hodgkinson K.M., D.J. Mencin, K. Feaux, C. Sievers, and G.S. **Mattioli**, 2020, Evaluation Of Earthquake Magnitude Estimation And Event Detection, Thresholds For Real-Time GNSS Networks: Examples From Recent Events Captured By The Network Of The Americas, *Seismological Research Letters* (2020) 91 (3): 1628–1645. doi: <https://doi.org/10.1785/0220190269>

- Husain, T., Elsworth, D., Voight, B., **Mattioli**, G., and P. Jansma, 2018, Influence of conduit flow mechanics on magma rheology and the growth style of lava domes, *Geophysical Journal International*, **213**, 1768–1784, doi: 10.1093/gji/ggy073.
- Cabral-Cano, E., X. Pérez-Campos, B. Márquez-Azúa, M. A. Sergeeva, L. Salazar-Tlaczani, C. DeMets, D. Adams, J. Galetzka, K. Hodgkinson, K. Feaux, Y. L. Serra, G. S. **Mattioli**, and M. Miller, 2018, TLALOCNet: A Continuous GPS-Met Backbone in Mexico for Seismotectonic and Atmospheric Research, *Seismological Research Letters*, **89**, 373–381, doi: 10.1785/0220170190.
- Im, K., D. Elsworth, Y. Guglielmi, and G.S. **Mattioli**, 2017, Geodetic imaging of thermal deformation in geothermal reservoirs – production, depletion and fault reactivation, *Journal of Volcanology and Geothermal Research*, **338**, 79–91, <https://doi.org/10.1016/j.jvolgeores.2017.03.021>
- Bilham, R., H. Ozener, D. Mencin, A. Dogru, S. Ergintav, Z. Cakir, A. Aytun, B. Aktug, O. Yilmaz, W. Johnson, and G. **Mattioli**, 2016, Surface creep on the North Anatolian Fault at Ismetpasa, Turkey, 1944–2016, *Journal of Geophys. Res. Solid Earth*, **121**, 7409–7431, doi:10.1002/2016JB013394.
- Odbert, H.M., G.A. Ryan, G.S. **Mattioli**, S. Hautmann, J. Gottsmann, N. Fournier, R. Herd, and A. Linde, 2014, Volcano geodesy at Soufrière Hills Volcano: a review, Chapter 11: The Eruption of Soufriere Hills Volcano, 15 years on, (G. Wadge, ed.), *Geological Society, London, Memoirs*, v. **39**; p195–217, doi: 10.1144/M39.11.
- Foroozan, R., D. Elsworth, B. Voight, and G.S. **Mattioli**, 2011, Magmatic-Metering Controls the Stopping and Restarting of Eruptions, *Geophys. Res. Lett.*, **38**, L05306, doi:10.1029/2010GL046591.
- Calais, E., A. Freed, G. **Mattioli**, F. Amelung, S. Jónsson, P. Jansma, S.-H. Hong, T. Dixon, C. Prépetit, and R. Momplaisir, 2010, The January 12, 2010, Mw 7.0 earthquake in Haiti: context and mechanism from an integrated geodetic study, *Nature Geosciences*, PUBLISHED ONLINE: 24 OCTOBER 2010 | DOI: 10.1038/NGEO992.
- Mattioli**, G.S., R.A. Herd, M.H. Strutt, G. Ryan, C. Widiwijayanti, and B. Voight, 2010, Long term surface deformation of Soufriere Hills Volcano, Montserrat from GPS geodesy: inferences from simple elastic inverse models, *Geophys. Res. Letters, Special Section on Montserrat*, **37**, L00E13, doi:10.1029/2009GL042268.

Synergistic Activities:

Associate Editor, *Tectonics* (2014–2020)

Chair, COCONet Advisory Committee to UNAVCO (2011–2012)

Director, CALIPSO Facility, Soufriere Hills volcano, Montserrat (NSF funded; 2006–2014)

Past Co-President of the World Organization of Volcano Observatories (2004–2008)

President-elect (VP) Sigma Xi, University of Arkansas Chapter (2006–2010)

Collaborators and Co-Editors:

Eric Calais, Ecole Normale Supérieure; Charles DeMets, Univ. of Wisconsin; Timothy Dixon, Univ. of South Florida; Derek Elsworth, Penn State, Pam Jansma, CU Denver; Alan Linde, Carnegie Institution; David Mencin, UNAVCO; Selwyn Sacks, Carnegie Institution; Alan Smith, CSU, San Bernardino; Barry Voight, Penn State

Thesis Advisor (principal advisor-completed degrees only) and Post-doc Sponsor:

Desmond Ihemedu (MS); Cathina Gunn de Rosas (PhD); Stephen James (MS); Anita Marshall (MS); Audeliz Matias (MS); Shane Matson (MS); Erin McPherson (MS); Jamie Miller (PhD); Lizzette Rodriguez (MS); Hector Rodriguez-Cesani (MS); Joseph Salazar (MS); Elizabeth Van Boskirk (MS); Henry Turner (MS, PhD); Richard Styron (MS); Ellen Howell (post-doc at UPRM); Donald Hooper (post-doc at UPRM)