

## Curriculum Vitae: Heather L. Lehto, Ph.D.

Department of Physics and Geosciences  
Angelo State University  
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### EDUCATION

- 2007-2012    **Ph.D. in Volcano Seismology**  
*University of South Florida, Tampa, FL*  
Advisor: Diana C. Roman, Ph.D.  
Dissertation title: "Investigation of Stress Changes at Mount St. Helens, Washington, and Receiver Functions at the Katmai Volcanic Group, Alaska, with an Additional Section on the Assessment of Spreadsheet-based Modules.
- 2005-2007    **Master of Science in Volcanology**  
*University of South Florida, Tampa, FL*  
Advisor: Charles B. Connor, Ph.D.  
Thesis Title: "Self-Potential Anomalies and CO<sub>2</sub> Flux at Active Volcanoes: Insights from Time and Spatial Series at Masaya, Telica, and Cerro Negro, Nicaragua"
- 1999-2001    **Bachelor of Science in Geological Sciences**  
*University of California Santa Barbara, Santa Barbara, CA*

### TEACHING EXPERIENCE

- Angelo State University, San Angelo, TX*  
**Associate Professor**, Fall 2019-Present  
**Assistant Professor**, Fall 2013-Spring 2019  
**Instructor**, Fall 2012- Summer 2013
- University of South Florida, Tampa, FL*  
**Lecturer**, Fall 2008-Spring 2011  
**Laboratory Instructor**, Fall 2005-Summer 2008
- Hillsborough Community College, Plant City, FL*  
**Adjunct Lecturer**, Fall 2011 – Summer 2012

### PUBLICATIONS

- 2013    **Lehto, H.L.**, Roman, D.C., & Moran, S.C. Source mechanisms of persistent shallow earthquakes during eruptive and non-eruptive periods. *Journal of Volcanology and Geothermal Research*, 256, 1-15.
- 2012    **Lehto, H.L.** and Vacher, H.L. SSAC 4: Evidence that Spreadsheet-based Modules Teach Math and that Spreadsheets do not Hinder Learning in an Introductory Physical Geology Course, *Numeracy*, 5, 2, 5.
- 2012    Pearson, S.C.P., Kiyosugi, K., **Lehto, H.L.**, Saballos, J.A., Connor, C., Sanford, W. Integrated Geophysical and Hydrothermal Models of Flank Degassing and Fluid Flow at Masaya Volcano, Nicaragua, *GEOCHEMISTRY, GEOPHYSICS, GEOSYSTEMS*, 13, 5.
- 2010    **Lehto, H. L.**, Roman, D. C., & Moran, S. C. Temporal Changes in Stress Preceding the 2004-2008 Eruption of Mount St. Helens, Washington, *Journal of Volcanology and Geothermal Research*, 198, 1-2, 129-142.

- 2009      **Lehto, H. L.** How Much Water is in Crater Lake? – Using Prisms to Calculate Volume. Spreadsheets Across the Curriculum module, SSACgnp2009.GB1601.HL1.1.  
[http://serc.carleton.edu/sp/ssac/national\\_parks/examples/crater\\_lake\\_volume.html](http://serc.carleton.edu/sp/ssac/national_parks/examples/crater_lake_volume.html)

## ABSTRACTS

- 2022      Lehto, H. L., Robledo, A., Madero, F. L., Garza, J., Brown, J., Battistini, A., Daniel, J. Institutionalizing a Culturally Responsive Approaches to Serving Hispanic Students (CRASH) Course for Faculty at a Small HSI, Geological Society of America North-Central/Southeastern Joint Section Meeting, Cincinnati, OH.
- 2020      Wickliffe, S., **Lehto, H. L.**      Searching for Long Period, Long Duration Events in the Fort Worth Basin, Angelo State University Undergraduate Research Symposium, San Angelo, TX.
- 2019      Naegeli, K.M., **Lehto, H. L.**, Carrell, K. The Gravitational Effects of Volcanism of Io, Angelo State University Undergraduate Research Symposium, San Angelo, TX.
- 2019      Doggett, T. A., **Lehto, H.L.** T\* Ranch Sedimentology, Angelo State University Undergraduate Research Symposium, San Angelo, TX.
- 2018      Worcester, D., **Lehto, H. L.** Preliminary Study of Mantle Fault Zone Earthquakes Beneath Hawaii, AGU Annual Meeting, Washington D.C.
- 2017      Naegeli, K. M., Kintzel, M. C., Ramon, I. A., **Lehto, H. L.** Investigation of Longitudinal Cracks Along Kickapoo Dam, Bronte, TX Using Resistivity Surveys, GSA Annual Meeting, Seattle, WA.
- 2017      Ward, J. W., Langmanson, M., **Lehto, H.** Including Stakeholders in Hydro-Geophysics Education: ASU Industry Appreciation Days 2016, GSA Annual Meeting, Seattle, WA.
- 2017      Graves, W., Ramon, I. A., **Lehto, H. L.**, Understanding the geometry of the mafic sills within Dagger Mountain using magnetometry, Angelo State University Undergraduate Research Symposium, San Angelo, TX.
- 2016      **Lehto, H. L.**, Ward, J. W. Inquiry-based learning transitions to interdisciplinary research at a small primarily undergraduate institution, AGU Annual Meeting, San Francisco, CA
- 2016      Reed, W. P., Foust, M., **Lehto, H. L.**, Ward, J. W., Payne, J. Evaluation of Geophysical Techniques in the Determination of a Salt Contaminated Environment, AAPG Southwest Section Meeting, Abilene, TX.
- 2015      Raines, L. N., **Lehto, H.L.**, Abnormal Earthquake Behavior in the High Velocity Zones Beneath Italy, Angelo State University Undergraduate Research Symposium, San Angelo, TX.

## GRANTS

- 2018      **Lehto, H.L.** and Ebeling, C. Building Stronger STEM Courses Workshop, \$2500, Faculty Learning Common Grant, Angelo State University, 2018-2019.
- 2019      **Lehto, H.L.**, Lozano, N., Wegner, J., Swets, P. Building Capacity: Increasing STEM Success through Mentoring, Faculty Development, and Financial Support, \$2,392,228, National Science Foundation, Not funded.

## AWARDS

- Chancellor's Council Distinguished Teaching Award Winner, Texas Tech University, 2020
- Faculty Excellence in Teaching Award Winner, ASU, 2020
- Faculty Excellence in Teaching Nominee, ASU, 2019
- Faculty Excellence in Leadership/Service Nominee, ASU, 2017

- Faculty Excellence in Leadership/Service Nominee, ASU, 2015
- Outstanding Teaching Assistant, Department of Geology, USF, 2009
- Outstanding Teaching Assistant, Department of Geology, USF, 2011

**PROFESSIONAL ACTIVITIES**

- Program Director, C.R.A.S.H. Core Values Program, 2022-Present
- Facilitator and Coach, C.R.A.S.H Core Values Program, 2022
- ESCALA Program Coach, 2022
- Faculty advisor for Sigma Gamma Epsilon, 2019-present
- Served as faculty liason for Girl Scout STEM Conference, 2014-2019
- Participated in Science Days Outreach by teaching elementary school kids about volcanoes
- Presented workshops on various geoscience topics for multiple school and camp groups
- Volunteer for ASU Cat Coalition

**PROFESSIONAL MEMBERSHIPS**

- American Geophysical Union
- Geological Society of America
- Association for Women Geoscientists
- National Association of Geoscience Teachers
- Sigma Gamma Epsilon