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Research Profile

Small earthquake science, slow earthquakes, earthquake seismology, fault mechanics and rheology, data science and machine learning, strong ground motion, active tectonics, numerical analysis and modeling of geophysical data, planetary geophysics

Education

- Ph.D. Geophysics, University of California, Berkeley (December 2012)
- B.S. Civil Engineering (highest honors), Georgia Institute of Technology (May 2007)

Recognitions & Awards

- Katharina von Salis visiting faculty fellow, ETH Zurich (2022)
- NSF CAREER Award (2019-2024)
- Seismological Society of America Charles F. Richter Early Career Award (2018)
- Earthscope Distinguished Lecturer (2016-2017)
- National Science Foundation Postdoctoral Research Fellowship (2013-2015)
- G. D. Louderback Award for outstanding scholarship (2012)
- Seismological Society of America Best Student Presentation Award (2010)
- National Science Foundation Graduate Research Fellowship (2008-2011)
- Geological Society of America Graduate Research Award (2008)

Research Appointments

- Associate Professor, University of Oregon (September 2019-present)
- Assistant Professor, University of Oregon (August 2015-August 2019)
- National Science Foundation Postdoctoral Fellow, Stanford University (2013-2015)
- National Science Foundation Graduate Research Fellow, Berkeley Seismological Laboratory, University of California-Berkeley (2007-2012)
- Graduate Student Researcher, Tohoku University, Sendai, Japan (2009)
- Undergraduate Research Assistant, Department of Earth and Atmospheric Sciences, Georgia Institute of Technology (2006-2007)
- Undergraduate Research Assistant, Department of Geological Sciences, University of Colorado-Boulder (2005)

Submitted & Published Manuscripts

** Note: First authors contributed most of the analysis and writing of the paper. Junior group members are underlined. Asterisks indicate undergraduate authors.

1. **A. M. Thomas**, T. J. Newton, C. J. Chamberlain, S. Malone, and D. R. Toomey (202?) Evolution of microseismicity on a fast-moving translational landslide. Submitted to *Earth and Planetary Science Letters*.
2. Aslam, K., **A. M. Thomas**, and D. Melgar (202?) The effect of Fore-arc Deformation on Shallow Earthquake Rupture behavior in the Cascadia Subduction Zone. In revision in *Geophysical Research Letters*.
3. Inbal, A., **A. M. Thomas**, T. J. Newton, and R. Burgmann (202?) Complex Migration of Tremor near Cholame, CA, Resolved by Seismic Array Analysis. In revision in *JGR-Solid Earth*.
4. Lin, J.-T., D. Melgar, **A. M. Thomas**, and J. Searcy (202?) Early warning for great earthquakes from characterization of crustal deformation patterns with deep learning. In revision in *JGR-Solid Earth*.
5. Ramos, M., Y. Huang, T. Ulrich, D. Li., A.-A. Gabriel, and **A. M. Thomas** (202?) Assessing Margin-Wide Rupture Behaviors along the Cascadia Megathrust with 3-D Dynamic Rupture Simulations. *JGR-Solid Earth*. doi: 10.1029/2021JB022005.
6. **Thomas, A. M.**, A. Inbal, J. Searcy, D. R. Shelly, and R. Burgmann (2021) Identification of low-frequency earthquakes on the San Andreas fault with deep learning. *Geophysical Research Letters*. doi: 10.1029/2021GL093157.
7. Hughes, L., C. J. Chamberlain, J. Townend, and **A. M. Thomas** (2021) A Repeating Earthquake Catalog from 2003 to 2018 for the Raukumara Peninsula, Northern Hikurangi Subduction Margin, New Zealand. *G-Cubed*. doi: 10.1029/2021GC009670
8. Klimasewski, A., V. J. Sahakian, and **A. M. Thomas** (2021) Comparing artificial neural networks with traditional ground-motion models for small-magnitude earthquakes in Southern California. *Bulletin of the Seismological Society of America*. doi: 10.1785/0120200200
9. Delph, J., **A. M. Thomas**, A. Levander (2021) Subcretionary tectonics: Linking variability in the expression of subduction along the Cascadia forearc. *Earth and Planetary Science Letters*. doi: 10.1016/j.epsl.2020.116724.
10. Dunham, E. M., **A. M. Thomas**, T. W. Becker, et al. (2020) Modeling Collaboratory for Subduction RCN Megathrust Modeling Workshop Report. doi: 10.31223/X5730M.
11. Newton, T. J. and **A. M. Thomas** (2020) Stress orientations in the Nankai Trough constrained using seismic and aseismic slip. *JGR-Solid Earth*. doi: 10.1029/2020JB019841.
12. Lin, J.-T., K. Aslam, **A. M. Thomas**, and D. Melgar (2020) Overlapping regions of coseismic and transient slow slip on the Hawaiian décollement. *Earth and Planetary Science Letters*. doi: 10.1016/j.epsl.2020.116353.

13. Wech, A. G., W. A. Thelen, and **A. M. Thomas** (2020) Deep long-period earthquakes generated by second boiling beneath Mauna Kea volcano. *Science*. doi: 10.1126/science.aba4798.
14. Goldberg, D. E., D. Melgar, V. J. Sahakian, **A. M. Thomas**, X. Xu, J. Geng, and B. W. Crowell (2020) Complex Rupture of an Immature Fault Zone: A Simultaneous Kinematic Model of the 2019 Ridgecrest, CA Earthquakes. *Geophysical Research Letters*. doi:10.1029/2019GL086382.
15. **Thomas, A. M.**, Z. Spica, M. Bodmer, W. H. Schultz, and J. R. Roering (2020) Using a dense seismic array to determine resonances and structure of the Two Towers earthflow in Northern California. *Seismological Research Letters*. doi: 10.1785/0220190206.
16. Lin, J.-T., W. Chang, D. Melgar, **A. M. Thomas**, and C. Chiu (2019) Quick Determination of Earthquake Source Parameters from GPS Measurements: Cases of Taiwan Earthquakes. *Geophysical Journal International*. doi: 10.1093/gji/ggz359.
17. *Littel, G., **A. M. Thomas**, and A. S. Baltay (2018) Using tectonic tremor to constrain seismic-wave attenuation in Cascadia. *Geophysical Research Letters*. doi: 10.1029/2018GL079344.
18. Hawthorne, J. C., **A. M. Thomas**, and J.-P. Ampuero (2018) The rupture extent of low frequency earthquakes near Parkfield, CA. *Geophysical Journal International*. doi: 10.1093/gji/ggy429.
19. Parker, L., C. H. Thurber, X. Zeng, N. Lord, D. Fratta, H. F. Wang, M. Robertson, **A. M. Thomas**, M. Karplus and K. L. Feigl (2018) Active-Source Seismic Tomography at the Brady Geothermal Field, Nevada, with Dense Nodal and Fiber-Optic Seismic Arrays. *Seismological Research Letters*. doi: 10.1785/0220180085.
20. Bletery, Q., **A. M. Thomas**, A. W. Rempel, and Jeanne L. Hardebeck (2017) Imaging shear strength along subduction faults. *Geophysical Research Letters*. doi: 10.1002/2017GL075501.
21. Beeler, N. M., **A. M. Thomas**, R. Burgmann, and D. R. Shelly (2017) Constraints on friction, dilatancy, diffusivity, and effective stress from low-frequency earthquake rates on the deep San Andreas Fault. *JGR-Solid Earth*. doi: 10.1002/2017JB015052.
22. **Thomas, A. M.**, N. M. Beeler, Q. Bletery, R. Burgmann, and D. R. Shelly (2017) Using low frequency earthquake families on the San Andreas fault as deep creepmeters. *JGR-Solid Earth*. doi:10.1002/2017JB014404.
23. Bletery, Q., **A. M. Thomas**, J. C. Hawthorne, R. M. Skarbak, A. W. Rempel, & R. D. Krogstad (2017) Characteristics of secondary slip fronts associated with slow earthquakes in Cascadia. *Earth and Planetary Science Letters*. doi:10.1016/j.epsl.2017.01.046.

24. Bostock, M. G., **A. M. Thomas**, A. M. Rubin, and N. I. Christensen (2017) On corner frequencies, attenuation, and low-frequency earthquakes. *JGR-Solid Earth*. doi:10.1002/2016JB013405.
25. Hawthorne, J. C., M. G. Bostock, A. Royer, and **A. M. Thomas** (2016) Variations in slow slip moment rate associated with rapid tremor reversals in Cascadia. *GCubed*. doi:10.1002/2016GC006489.
26. Bletery, Q., **A. M. Thomas**, L. Karlstrom, A. W. Rempel, A. Sladen and L. De Barros (2016) Mega-earthquakes rupture flat megathrusts. *Science*. doi:10.1126/science.aag0482.
27. **Thomas, A. M.**, G. C. Beroza and D. R. Shelly (2016) Constraints on the Source Parameters of Low-Frequency Earthquakes on the San Andreas Fault. *Geophysical Research Letters*. doi:10.1002/2015GL067173.
28. Beeler, N. M., G. H. Hirth, **A. M. Thomas**, and R. Burgmann (2015) Effective pressure, friction and deep crustal faulting. *JGR-Solid Earth*. doi: 10.1002/2015JB012115.
29. Bostock, M. G., **A. M. Thomas**, G. Savard, L. Chuang, and A. Rubin (2015) Magnitudes and moment-duration scaling of low-frequency earthquakes beneath southern Vancouver Island. *JGR-Solid Earth*. doi:10.1002/2015JB012195.
30. **Thomas, A. M.** and M. G. Bostock (2015) Identifying low-frequency earthquakes in central Cascadia using cross-station correlation. *Tectonophysics*. doi:10.1016/j.tecto.2015.07.013.
31. Kyriakopoulos, C., A. V. Newman, **A. M. Thomas**, M. Moore-Driskell, and G. T. Farmer (2015) A new seismically constrained subduction interface model for Central America. *JGR-Solid Earth*. doi:10.1002/2014JB011859.
32. Plourde, A., M. G. Bostock, P. Audet, and **A. M. Thomas** (2015) Low-frequency earthquakes at the southern Cascadia margin. *Geophysical Research Letters*. doi:10.1002/2015GL064363.
33. Royer, A., **A. M. Thomas**, and M. G. Bostock (2014) Tidal Modulation of Low Frequency Earthquakes and triggering of secondary events in Northern Cascadia. *JGR-Solid Earth*. doi:10.1002/2014JB011430.
34. Thurber, C. H., X. Zeng, **A. M. Thomas**, and P. Audet (2014) Phase-Weighted Stacking Applied to Low-Frequency Earthquakes. *Bulletin of the Seismological Society of America*. doi:10.1785/0120140077.
35. *Culha, C., A. Hayes, M. Manga, and **A. M. Thomas** (2014) Double ridges on Europa accommodate some of the missing surface contraction. *JGR-Planets*. doi:10.1002/2013JE004526.
36. Beeler, N. M., **A. M. Thomas**, R. Burgmann, and D. R. Shelly (2013) Inferring fault rheology from low frequency earthquakes on the San Andreas fault. *JGR-Solid Earth*. doi:10.1002/2013JB010118.

37. **Thomas, A. M.**, R. Burgmann, and D. S. Dreger (2013) Incipient faulting near Lake Pillsbury, CA and the role of accessory faults in plate boundary evolution. *Geology*. doi:10.1130/G34588.1.
38. McLaskey, G. C., **A. M. Thomas**, S. D. Glaser, R. M. Nadeau (2012) Fault healing promotes high frequency earthquakes in the laboratory and on natural faults. *Nature*. doi:10.1038/nature11512.
39. **Thomas, A. M.**, R. Burgmann, D. R. Shelly, N. M. Beeler, and M. L. Rudolph (2012) Tidal sensitivity of low frequency earthquakes near Parkfield, CA: implications for fault mechanics within the brittle-ductile transition. *JGR-Solid Earth*. doi:10.1029/2011JB009036.
40. **Thomas, A.M.**, R. M. Nadeau, and R. Burgmann (2009) Tremor-tide correlations and near-lithostatic pore pressure on the deep San Andreas fault. *Nature*. doi:10.1038/nature08654.
41. Ghosh, A., A. V. Newman, **A. M. Thomas**, and G. T. Farmer (2008) Interface locking along the subduction megathrust from b-value mapping near Nicoya Peninsula, Costa Rica, *Geophysical Research Letters*, doi:10.1029/2007GL031617.

Thesis

1. **Thomas, A. M.** (2013) Fact or friction: Inferring rheology from low-frequency earthquakes on the San Andreas fault. University of California, Berkeley Ph.D. Dissertation.

Lectures & Conference Presentations

** Note: This list includes only presentations within the *last 5 years* on which the first author was either myself or a junior advisee. Asterisks denote upcoming presentations.

- **Towards a comprehensive earthquake catalog for the Pacific Northwest** (A. Thomas, J. Searcy, D. Toomey)
2021 talk at the University of Washington
2021 talk at the Seismological Society of America meeting (*INVITED*)
- **Overlapping regions of coseismic and transient slow slip on the Hawaiian décollement** (A. Thomas, T. Lin, K. Aslam, D. Melgar)
2020 talk at the University of Utah
- **Relating Microseismicity to Fault Geometry at the Rattlesnake Ridge Landslide** (T. Newton, A. M. Thomas, S. DeLong, A. Pickering, D. R. Toomey)
2019 poster at the American Geophysical Union, San Francisco, CA
- **The seismic expression of hydration in the crust and mantle of the Cascadia margin** (J. R. Delph, A. M. Thomas, A. Levander)
2019 talk at the American Geophysical Union, San Francisco, CA
2019 poster at the MCS workshop, Eugene, OR
2019 poster at SAGE/GAGE workshop, Portland, OR

- 2019 talk at the Geological Society of America workshop, Phoenix, AZ
- **Rapid Magnitude Assessment of Large Earthquakes from Machine Learning** (T. Lin, D. Melgar, A. M. Thomas)
2021 talk at the Seismological Society of America meeting
2019 poster at the American Geophysical Union, San Francisco, CA
2019 poster at the MCS workshop, Eugene, OR
2019 poster at the Seismological Society of America meeting, Seattle, WA
2018 poster at the American Geophysical Union, Washington, D.C.
2018 talk at the University of Oregon Machine Learning Symposium, Eugene, OR
 - **Stress Regime of the Nankai Trough** (T. Newton, A. M. Thomas)
2019 poster at the MCS workshop, Eugene, OR
2019 poster at the SAGE/GAGE workshop, Portland, OR
2019 poster at the Seismological Society of America meeting, Seattle, WA
2018 poster at the International Joint Workshop on Slow Earthquakes, Fukuoka, Japan
 - **Multinomial logistic regression applied to identify tectonic tremor in Northern South America by using the Colombian National Seismic Network** (M. Gomez-Ospina, A. M. Thomas, G. Monsalve)
2018 poster at the American Geophysical Union, Washington, D.C.
 - **Machine learning applied to some outstanding problems in earthquake science** (A. M. Thomas, T. Lin, M. Gomez-Ospina, D. Melgar, G. Monsalve)
2018 seminar at the University of Texas, Austin, Austin, TX
 - **Using Tectonic Tremor to Constrain Seismic-wave Attenuation in Cascadia** (G. Littel, A. M. Thomas, A. Baltay)
2018 poster at the Undergraduate Research Opportunity Program symposium, Eugene, OR
2017 poster at the American Geophysical Union, New Orleans, LA
2017 poster at the Undergraduate Research Opportunity Program symposium, Eugene, OR
 - **Using low frequency earthquake families on the San Andreas fault as deep creepmeters** (A. M. Thomas, N. Beeler, Q. Bletery, R. Burgmann, D. Shelly)
2017 talk at the American Geophysical Union, New Orleans, LA (*INVITED*)
 - **Characterization of aftershock sequences from large strike-slip earthquakes along geometrically complex faults** (E. Sexton, A. M. Thomas, B. Delbridge)
2017 poster at the American Geophysical Union, New Orleans, LA
 - **Tidal sensitivity of declustered low frequency earthquake families and inferred creep episodes on the San Andreas Fault** (A. Babb, A. M. Thomas)
2017 poster at the American Geophysical Union, New Orleans, LA
 - **Stress orientations in the Nankai Trough region of Japan** (T. Newton, A. M. Thomas, Q. Bletery)
2017 poster at the American Geophysical Union, New Orleans, LA
 - **Dense array studies of volcano-tectonic and long-period earthquakes beneath Mount St. Helens** (M. Glasgow, S. Hansen, B. Schmandt, A. M. Thomas)

- 2017 poster at the American Geophysical Union, New Orleans, LA
- **Imaging shear strength along subduction zones** (Q. Bletery, A. M. Thomas, A. W. Rempel, J. L. Hardebeck)
2017 poster at the CIDER workshop, Berkeley, CA
2017 talk at the Seismological Society of America meeting, Denver, CO (*INVITED*)
 - **Mega-earthquakes and fault properties** (Q. Bletery, A. M. Thomas, A. W. Rempel, A. Sladen, B. Delouis, M. Simons)
2017 seminar at the Berkeley Seismological Laboratory, Berkeley, CA
2017 seminar at the United States Geological Survey Earthquake Science Center, Menlo Park, CA
2017 seminar at the Institut de Physique du Globe, Strasbourg, France
2017 seminar at the Ecole Normale Supérieure, Paris, France
2016 seminar at the Cascades Volcano Observatory, Vancouver, WA
 - **Source properties of LFEs in Parkfield and Cascadia** (A. M. Thomas, M. Bostock, G. Beroza, A. Rubin, D. Shelly, G. Savard, L. Chuang)
2018 seminar at the University of Texas, Austin, Austin, TX
2016 seminar at the University of California, Davis, Davis, CA
2016 seminar at the SCEC Annual Meeting, Palm Springs, CA (*INVITED*)
2016 seminar at the University of New Mexico, Albuquerque, NM
2016 seminar at Harvard University, Boston, MA
2016 seminar at Oregon State University, Corvallis, OR
2016 seminar at University of Washington, Seattle, WA
2016 seminar at Scripps Institution of Oceanography, San Diego, CA
 - **How fault geometry controls earthquake magnitude** (Q. Bletery, A. M. Thomas, A. W. Rempel, L. Karlstrom, A. Sladen, L. De Barros)
2016 poster at the American Geophysical Union, San Francisco, CA
2016 talk at the UJNR meeting, Napa, CA (*INVITED*)
2016 poster at the SCEC meeting, Palm Springs, CA
 - **Past and future great earthquakes in Cascadia** (A. M. Thomas)
2017 seminar at the Oakridge Public Library, Oakridge, OR
2016 seminar for the Lane League of Women Voters, Eugene, OR
 - **Constraints on source properties of LFEs in Parkfield, CA** (A. M. Thomas, G. Beroza, D. Shelly)
2016 talk at the AGU Chapman conference on slow slip, Ixtapa, Mexico
2016 talk at the Japanese Geophysical Union meeting, Chiba, Japan (*INVITED*)
2015 talk at the Earthscope National Meeting, Stowe, VT (*INVITED*)
 - **Catalog and Characteristics of Earthquake Swarms in Northern California** (S. Chlorini, A. M. Thomas, V. Lekic)
2016 poster at the American Geophysical Union, San Francisco, CA
 - **Automated detection of secondary slip fronts in Cascadia** (Q. Bletery, A. M. Thomas, R. D. Krogstad, J. C. Hawthorne, R. M. Skarbek, A. W. Rempel, M. G. Bostock)
2016 talk at the American Geophysical Union, San Francisco, CA (*INVITED*)
2016 poster at the AGU Chapman conference on slow slip, Ixtapa, Mexico

- **Investigating tidal triggering of induced seismicity in Oklahoma using Schuster Spectra** (K. M. Pearson, A. M. Thomas, V. Lekic)
2018 talk at the Seismological Society of America meeting, Miami, FL
2016 poster at the Eastern Section Seismological Society of America meeting, Reston, VA

External funding

Current

- \$284,149 - (PI) USGS: Improving seismic and infrasound constraints on surface flows on Cascade Volcanoes
- \$75,000 - (PI) Binational Science Foundation: High-resolution imaging of slow earthquake source processes resulting from the Cholame Dense Array Experiment (with coPI Asaf Inbal)
- \$591,575 - (PI) National Science Foundation: CAREER: Using the Rattlesnake Ridge landslide as a natural laboratory to study earthquake and landslide processes
- \$427,189 - (coPI) National Aeronautics and Space Administration: Machine learning for rapid magnitude and hazard characterization of large earthquakes with HR-GNSS (with coPI Diego Melgar)

Previous

- \$207,000 - (coPI) New Zealand Marsden Fund VUW1702: The straw that didn't break the Camel's back: what variations in loading rate can faults withstand? (with PI Calum Chamberlain and coPI John Townend)
- \$92,340 - (coPI) National Science Foundation PREEVENTS-1663769: Cascadia scenario earthquakes: source, path, and earthquake early warning (with PI Yihe Huang and coPI Marine Denolle)
- \$100,470 - (PI) USGS NEHRP- G18AP00045: Using large N to better understand slow earthquake processes
- \$8,719 - (PI) National Science Foundation EAR-1824223: RAPID: Deploying a Dense Seismic Network to Record Seismicity at the Rattlesnake Ridge Landslide
- \$6,935 - (PI) Incorporated Research Institutions in Seismology 9002-002: Preliminary diagnosis of tectonic tremor in Colombia using broad-band seismological data
- \$240,000 - (PI) National Science Foundation EAR-1520238: Exploring the influence of Tidal Stress Changes on the Generation of Secondary Slip Fronts during Slow Slip Events in Cascadia (with coPI Alan Rempel)
- \$22,000 - (PI) Southern California Earthquake Center-16053: Using low frequency earthquakes families on the San Andreas as deep creepmeters (with coPI Nicholas Beeler, Roland Burgmann, David Shelly)

\$361,416 - (coPI) United States Geological Survey-283270:

Implementation and Development of US West Coast ShakeAlert: Collaborative Research with University of California at Berkeley, California Institute of Technology, University of Washington, and University of Oregon (with PI Douglas Toomey)

\$170,000 - (PI) National Science Foundation EAR-1249775: Spectral morphology and source characteristics of low-frequency earthquakes near Parkfield, CA

Teaching History

- University of Oregon EARTH 353: *Geologic Hazards* (S2021)
- University of Oregon EARTH 610: *Advanced Computational Earth Science—Machine learning and data science* (F2018, S2020)
- University of Oregon GEOL 467: *Fault Mechanics* (W2016, S2018)
- University of Oregon GEOL 601: *Introduction to Scientific Computing* (F2016)
- University of Oregon GEOL 201: *Earth's Interior Heat and Dynamics* (F2015, F2016, F2017, F2018, W2019, W2020, F2020)
- University of Oregon GEOL 199: *Volcanoes in Your Backyard* (F2014)
- University of California, Berkeley EPS 12: *The Planets* (2012)
- University of California, Berkeley EPS 116: *Structural Geology* (2011)
- University of California, Berkeley EPS 39: *Geological Influences in California* (2010, 2012)
- University of California, Berkeley EPS 122: *Physics of the Earth* (2008)
- Georgia Institute of Technology Math 1711: *Finite Mathematics* (2006)
- Georgia Institute of Technology Math 2401: *Multivariable Calculus* (2006)
- Georgia Institute of Technology Math 1501: *Single Variable Calculus* (2005)

Professional Service

Scientific community

- Coauthor and main contributor to an NSF white paper on development of an “Earthquake Center” on the Cascadia Subduction Zone (2020)
- Session chair at AGU (2012), JpGU (2016), SSA (2019, 2021)
- Member, IRIS Data Services Committee (2017-2020)
- Member, Subduction Zone Modelling RCN Steering Committee (2017-present) and organizer of Megathrust Earthquake Modeling workshop held at UO October 6-9, 2019
- Referee for manuscripts submitted to *Geophysical Research Letters*, *Earth and Planetary Science Letters*, *G-Cubed*, *Geosphere*, *Science*, *Journal of Geophysical Research*, *Nature Geoscience*, *Science Advances*, *Terra Nova*, and proposals submitted to the *National Science Foundation* and *United States Geological Survey*

University community

- Undergraduate Research Opportunities Program (UROP) Faculty Advisory Group (2017-2018)
- University of Oregon state and federal relations delegate tasked with testifying and promoting Earthquake Early Warning to Congressman Peter DeFazio, Senator Jeff Merkeley, and other Oregon legislators (the overarching goal of this effort is to promote EEW on the west coast and to secure recurring investment by the State of Oregon in seismic monitoring) (2015)
- Aided in lobbying the State of Oregon to purchase 15 Transportable Array stations that were due to be decommissioned in summer of 2015. This, to my knowledge, is the first investment in seismic monitoring by the State of Oregon (2014)

Department community

- *Graduate admissions committee (2018-present)*
- *Earth Science geophysics track advisor (2019-present)*
- Earth Science weekly Seismology Seminar Organizer (2017-present)
<https://geophysics.uoregon.edu/seismogroup.html>
- Wrote and maintain the University of Oregon geophysics group webpage:
<http://geophysics.uoregon.edu/>
- Geodesy Position Search Committee member (2017)
- Organized seminar for graduate students on applying to national fellowship programs and provided feedback on several research and personal statements of graduate students in the Geological Sciences Department (2015 and 2016)
- Developed a new Freshman Interest Group (FIG) course called Volcanoes in Your Backyard designed to recruit undergraduates into geology (2014)

Advising

- Undergraduate students: Mariana Gomez (UNC-Medellin, IRIS Intern Summer 2018), Ty Amorsano (McGill University, IRIS Intern Summer 2018), Geena Littel (UO, 2015-spring 2018), Shane Cooper (UNR, IRIS Intern Summer 2014), Cansu Culha (UC-Berkeley, 2011-2012)
- Graduate Students (primary advisor): Tyler Newton (Ph.D., current), Tim Lin (Ph.D., current), Avery Connor (Ph.D., current), Renee Nassif (Ph.D., current), Yu-Sheng Sun (Ph. D., current), Alex Babb (M.S., 2018), Emily Sexton (M.S., 2018)
- Graduate Students (committee member): Sydney Dybing (Ph.D., current), Lexie Klimasewski (Ph.D., current), Brennah McVey (M.S. 2019), and Karen Pearson (Ph.D., U. Maryland, current)
- Postdoctoral scholars: Khurram Aslam, Jonathan Delph, Quentin Bletery, Rob Skarbek