

**Guoqing Lin**  
**Curriculum Vitae**  
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Professor (Seismology/Geophysics)  
Department of Marine Geosciences  
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**EDUCATION**

2007/03      Ph.D. in Earth Sciences, SIO, University of California, San Diego  
2002/06      B.S. in Geophysics, Peking University, China

**EMPLOYMENT HISTORY**

2025/01-present      Associate Dean of Research, Rosenstiel School, University of Miami  
2019/06-present      Professor, University of Miami  
2015/06-2018/05      Graduate Program Director of Marine Geosciences, University of Miami  
2015/06-2019/05      Associate Professor, University of Miami  
2009/01-2015/05      Assistant Professor, University of Miami  
2007/07-2008/12      Postdoctoral Research Associate, University of Wisconsin-Madison  
2007/04-2007/06      Postdoctoral Research Associate, University of California, San Diego

**RESEARCH INTERESTS**

Volcano Seismology	Seismic Velocity/Attenuation Tomography
Subduction Zone Earthquakes	Earthquake Relocation
Environmental Seismology	Full Waveform Inversion
Induced Seismicity	Earthquake Nucleation and Triggering

**PUBLICATIONS** (\* denotes student first author)

57. Wu, S., **G. Lin**, and P. M. Shearer (2025), Seismic velocity monitoring reveals complex magma transport dynamics at Kīlauea volcano prior to the 2018 eruption, AGU advances.
56. Denlinger, R., D. R. H. O’Connell, **G. Lin**, S. Roecker, and N. Bennington (2024), An unprecedented experiment to map Kīlauea’s summit magma system, *Eos*, 105, <https://doi.org/10.1029/2024EO240392>.
55. **Lin, G.** and W. Fan (2024), Spatiotemporal variations of in situ Vp/Vs ratios during the 2019 Ridgecrest earthquake sequence suggest fault zone condition changes, *Geophys. Res. Lett.*, 51(10):e2024GL109171.
54. **Lin, G.** (2023), Detection and location of volcano-tectonic earthquakes, *Advances in Volcanology and Active Volcanoes of the World*, IAVCEI Book series.
53. Liu, T., J. Gong, W. Fan, and **G. Lin** (2023), In-situ Vp/Vs ratio reveals fault-zone material variation at the westernmost Gofar transform fault, East Pacific Rise, *J. Geophys. Res.*, 128(3):e2022JB025310.
52. Neves, M., Z. Peng, and **G. Lin** (2022), New microearthquake catalog for the Parkfield section of the San Andreas Fault, *Seism. Res. Lett.*, 1–15, doi: 10.1785/0220220206.
51. Fuis, G.S., R.D. Catchings, D.S. Scheirer, K. Bauer, M. Goldman, T.E. Earney, **G. Lin**, and E. Zhang (2022), New insights on subsurface geologic and fault structure at Loma Prieta, central California, *Bull. Seism. Soc. Am.*, 1–20, doi: 10.1785/0120220037.
50. Aziz Zanjani\*, F. and **G. Lin** (2022), Double seismic zones along the Eastern Aleutian-Alaska subduction zone revealed by a high-precision earthquake relocation catalog, *Seism. Res. Lett.*, 1–17, doi: 10.1785/0220210348.
49. Fan, W., Okuwaki, Ryo, A. J. Barbour, Y. Huang, **G. Lin**, and E. S. Cochran (2022), Fast rupture of the 2009 Mw 6.9 Canal de Ballenas earthquake in the Gulf of California dynamically triggers seismicity in California, *Geophys. J. Int.*, 230(1):528–541.

48. Fan, W., A. J. Barbour, J. J. McGuire, Y. Huang, **G. Lin**, E. S. Cochran, and R. Okuwaki (2022), Very low frequency earthquakes in between the seismogenic and tremor zones in Cascadia? AGU Advances, 3(2):e2021AV000607.
47. Brown, M.G., **G. Lin**, H. Matsuzawa, and K. Yoshizawa (2022), Recovery of Love wave overtone waveforms and dispersion curves from single-station seismograms using time-warping, *Geophys. J. Int.*, 230(1):70–83.
46. **Lin, G.**, Z. Peng, and M. Neves (2022), Comparison of in situ Vp/Vs ratios and seismic characteristics between northern and southern California, *Geophys. J. Int.*, 229(3):2162–2174.
45. **Lin, G.**, V. A. Huerfano, and W. Fan (2021), Crustal architecture of Puerto Rico using body-wave seismic tomography and high-resolution earthquake relocation, *Seism. Res. Lett.*, doi: <https://doi.org/10.1785/0220210223>.
44. **Lin, G.** and P. M. Shearer (2021), Spatiotemporal variations of stress field and in situ Vp/Vs ratio during the 2018 Kilauea eruption, *Geophys. Res. Lett.*, 48(18):e2021GL094636.
43. Aziz Zanjani\*, F., **G. Lin**, and C. H. Thurber (2021), Nested regional-global seismic tomography and precise earthquake relocation along the Hikurangi subduction zone, New Zealand, *Geophys. J. Int.*, 227(3):1567–1590.
42. Fan, W., A. J. Barbour, E. S. Cochran, and **G. Lin** (2020), Characteristics of frequent dynamic triggering of microearthquakes in Southern California, *J. Geophys. Res.*, doi: 10.1029/2020JB020820.
41. **Lin, G.** and P. G. Okubo (2020), Seismic evidence for a shallow detachment beneath Kilauea’s south flank during the 2018 activity, *Geophys. Res. Lett.*, doi: 10.1029/2020GL088003.
40. Zhang, Y., B. Wang, **G. Lin**, W. Wang, W. Yang, and Z. Wu (2020), Upper crustal velocity structure of Binchuan, Yunnan revealed by dense array local seismic tomography, *Chin. J. Geophys.*, doi: 10.6038/cjg2020N0455.
39. **Lin, G.** (2020), Waveform cross-correlation relocation and focal mechanisms for the 2019 Ridgecrest earthquake sequence, *Seism. Res. Lett.*, 7, doi: 10.1785/0220190277.
38. Zhang, Y., B. Wang, **G. Lin**, Y. Ouyang, T. Wang, S. Xu, L. Song, R. Wang (2020), Three-dimensional P-wave velocity structure of the Zhuxi ore deposit, South China, revealed by active source first arrival tomography, *Minerals*, 10(2):148.
37. Ge\*, S., **G. Lin**, F. Amelung, P. G. Okubo, D. A. Swanson, and Z. Yunjun (2019), The accommodation of the south flank’s motion by the Koa’e fault system, Kilauea, Hawai’i: insights from the June 2012 earthquake sequence, *J. Geophys. Res.*, 124, <https://doi.org/10.1029/2018JB016961>.
36. **Lin, G.** (2019), Spatiotemporal variations of in situ Vp/Vs ratio within the Salton Sea Geothermal Field, southern California, *Geothermics*, <https://doi.org/10.1016/j.geothermics.2019.101740>.
35. Rollins, C, R. S. Stein, **G. Lin**, and D. Kilb (2019), The Ridgecrest earthquakes: Torn ground, nested foreshocks, Garlock shocks, and Temblor’s forecast, *Temblor*, <http://doi.org/10.32858/temblor.039>.
34. Zhou, B., X. Liang, **G. Lin**, X. Tian, G. Zhu, J. Mechie, and J. Teng (2019), Upper crustal weak zone in central Tibet: an implication from three-dimensional seismic velocity and attenuation tomography results, *J. Geophys. Res.*, doi: 10.1029/2018JB016653.
33. **Lin, G.** (2018), The source-specific station term and waveform cross-correlation earthquake location package and its applications to California and New Zealand, *Seism. Res. Lett.*, doi: 10.1785/0220180108.
32. **Lin, G.** and B. Wu (2017), Seismic velocity structure and characteristics of induced seismicity at The Geysers geothermal field, eastern California, *Geothermics*, 71:225-233.
31. Zhang\*, Q., **G. Lin**, Z. Zhan, X. Chen, Y. Qin, and S. Wdowinski (2017), Absence of remote earthquake triggering inside geothermal production fields, *Geophys. Res. Lett.*, doi: 10.1002/2016GL071964.
30. **Lin, G.** and P. G. Okubo (2016), A large refined catalog of earthquake relocations and focal mechanisms for the entire island of Hawaii and their seismotectonic implications, *J. Geophys. Res.*, 121, doi:10.1002/2016JB013042.
29. Zhao, W., F. Amelung, M.-P. Doin, T. H. Dixon, Wdowinski, S., and **G. Lin** (2016), InSAR observations of lake loading at Yangzhuoyong Lake, Tibet: constraints on crustal elasticity, *Earth Planet. Sci. Lett.*, 449:240-245.

28. Li\*, P. and **G. Lin** (2016), Local earthquake tomography with the inclusion of full topography and its application to Kilauea volcano, Hawaii, *J. Volcanol. Geotherm. Res.*, 316:12–21.
27. **Lin, G.**, F. Amelung, P. M. Shearer, and P. G. Okubo (2015), Location and size of the shallow magma reservoir beneath Kilauea caldera, constraints from near-source Vp/Vs ratios, *Geophys. Res. Lett.*, 42, doi:10.1002/2015GL065802.
26. **Lin, G.**, P. M. Shearer, F. Amelung, and P. G. Okubo (2015), Seismic tomography of compressional wave attenuation structure for Kilauea volcano, Hawaii, *J. Geophys. Res.*, 120, doi:10.1002/2014JB011594.
25. **Lin, G.** (2015), Seismic velocity structure and earthquake relocation for the magmatic system beneath Long Valley Caldera, eastern California, *J. Volcanol. Geotherm. Res.*, 296:19-30.
24. **Lin, G.** (2014), Three-dimensional compressional attenuation model (Qp) for the Salton Trough, southern California, *Bull. Seism. Soc. Am.*, 104, doi: 10.1785/0120140049.
23. Zhang\*, Q. and **G. Lin** (2014), Three-dimensional Vp and Vp/Vs models in the Coso geothermal field, California: seismic characterization of the magmatic system, *J. Geophys. Res.*, 119, doi:10.1002/2014JB010992.
22. **Lin, G.**, P. M. Shearer, R. S. Matoza, P. G. Okubo, and F. Amelung (2014), Three-dimensional seismic velocity structure of Kilauea and Mauna Loa volcanoes from local seismic tomography, *J. Geophys. Res.*, 119, 1-16, doi:10.1002/2013JB010820.
21. **Lin, G.** (2014), Three-dimensional compressional wave attenuation tomography for the crust and uppermost mantle of northern and central California, *J. Geophys. Res.*, 119, 3462-3477, doi:10.1002/2013JB010621.
20. Li\*, P. and **G. Lin** (2014), Adaptive ambient noise tomography and its application to the Garlock fault, southern California, *Geophys. J. Int.*, doi:10.1093/gji/ggu073.
19. **Lin, G.**, F. Amelung, Y. Lavallée, and P. G. Okubo (2014), Seismic evidence for a crustal magma reservoir beneath the upper east rift zone of Kilauea volcano, Hawaii, *Geology*, doi:10.1130/G35001.1.
18. **Lin, G.** (2013), Three-dimensional seismic velocity structure and precise earthquake relocations in the Salton Trough, Southern California, *Bull. Seism. Soc. Am.*, 103, doi:10.1785/0120120286.
17. **Lin, G.** (2013), Seismic investigation of magmatic unrest beneath Mammoth Mountain, California using waveform cross-correlation, *Geology*, 41, 847-850, doi:10.1130/G34062.1.
16. Matoza, R., Shearer, P. M., **Lin, G.**, Wolfe, C., and Okubo, P. (2013). Systematic relocation of seismicity on Hawaii Island from 1992 to 2009 using waveform cross-correlation and cluster analysis. *J. Geophys. Res.*, 118(1-14):doi:10.1002/jgrb.50189.
15. **Lin, G.** and C. H. Thurber (2012), Seismic velocity variations along the rupture zone of the 1989 Loma Prieta Earthquake, California, *J. Geophys. Res.*, 117, B09301, doi:10.1029/2011JB009122.
14. Shao, L., J. Wang, and **G. Lin** (2010), Earthquake relocations in Huoshan area, Anhui province, by applying the Source-Specific Station Term method, *Chinese J. Geophys.*, 53(6), 1440-1450, doi:10.3969/j.issn. 0001-5733.
13. Dixon, T., F. Amelung, C. Harrison, S. Wdowinski, and **G. Lin** (2010), Rebuilding Haiti smarter. *Science*, 327(5971), 1325-1325.
12. **Lin, G.**, C. H. Thurber, H. Zhang, E. Hauksson, P. Shearer, F. Waldhauser, T. M. Brocher, and J. Hardebeck (2010), A California statewide three-dimensional seismic velocity model from both absolute and differential times, *Bull. Seism. Soc. Am.*, 100, 225-240.
11. **Lin, G.**, and P. M. Shearer (2009), Evidence for water-filled cracks in earthquake source regions, *Geophys. Res. Lett.*, 36, L17315, doi:10.1029/2009GL039098.
10. Shearer, P. M. and **G. Lin** (2009), Evidence for Mogi doughnut behavior in seismicity preceding small earthquakes in southern California, *J. Geophys. Res.*, 114, B01318, doi:10.1029/2008JB005982.
9. **Lin, G.**, P. M. Shearer, and E. Hauksson (2008), A search for temporal variations in station terms in southern California from 1984 to 2002, *Bull. Seism. Soc. Am.*, 98, 2118-2132.
8. **Lin, G.**, P. M. Shearer, and E. Hauksson (2007), Applying a three-dimensional velocity model, waveform cross correlation, and cluster analysis to locate southern California seismicity from 1981 to 2005, *J. Geophys. Res.*, 112, B12309, doi:10.1029/2007JB004986.

7. **Lin, G.**, P. M. Shearer, E. Hauksson, and C. H. Thurber (2007), A three-dimensional crustal seismic velocity model for southern California from a composite event method, *J. Geophys. Res.*, 112, B11306, doi:10.1029/2007JB004977.
6. **Lin, G.** and P. M. Shearer (2007), Estimating local  $V_p/V_s$  ratios within similar earthquake clusters, *Bull. Seism. Soc. Am.*, 97, 379-388.
5. Guzofski, C. A., J. H. Shaw, **G. Lin**, and P. M. Shearer (2007), Seismically active wedge structure beneath the Coalinga anticline, San Joaquin basin, California, *J. Geophys. Res.*, 112, B03S05, doi:10.1029/2006JB004465.
4. **Lin, G.** and P. M. Shearer (2006), The COMLOC earthquake location package, *Seism. Res. Lett.*, 77, 440- 444.
3. **Lin, G.**, P. M. Shearer, and Y. Fialko (2006), Obtaining absolute locations for quarry seismicity using remote sensing data, *Bull. Seism. Soc. Am.*, 96, 722-728.
2. Shearer, P., E. Hauksson, and **G. Lin** (2005), Southern California hypocenter relocation with waveform cross-correlation, part 2: results using source-specific station terms and cluster analysis, *Bull. Seism. Soc. Am.*, 95, 904-915.
1. **Lin, G.**, and P. M. Shearer (2005), Tests of relative earthquake location techniques using synthetic data, *J. Geophys. Res.*, 110, B04304, doi:10.1029/2004JB003380.

## **PROFESSIONAL**

### **I. Editorial Responsibilities:**

Associate Editor, *Journal of Geophysical Research: Solid Earth*, 2024-present  
 Associate Editor, *Bulletin of the Seismological Society of America*, 2010-2015

### **II. Professional and Honorary Organizations:**

Member of International Professionals for the Advancement of Chinese Earth Sciences (IPACES, by invitation only, 2018-present)  
 Member of International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI, 2013-present)  
 Member of Seismological Society of America (SSA, 2003-present)  
 Member of American Geophysical Union (AGU, 2002-present)

### **III. Honors and Awards**

Provost's Research Award, University of Miami, 2024  
 IRIS/SSA Distinguished Lecturer, 2021  
*(IRIS: Incorporated Research Institutions for Seismology; SSA: Seismological Society of America)*  
 Provost's Research Award, University of Miami, 2020  
 SEEDS You Choose Leadership Award, University of Miami, 2013

### **IV. Other professional activities:**

IRIS Data Services Standing Committee (DSSC), 2015-2018  
 UM Representative at IRIS/EarthScope Consortium, 2011-present

## **TEACHING**

### **I. Teaching Specialization (courses taught at UM):**

**Graduate:** Introduction to Seismology (2010-present, every Fall)  
 Advanced Seismology (2011-present, every Spring)  
 Geodynamics (2012-2019, every other Fall)

**Undergraduate:** Geophysics (2014-present, every Fall)  
 Structural Geology (2010-present, every Spring)

## **II. Advising**

### **a. Postdoc Scholars**

1. Xusong Yang, 2024/02-present

### **b. Ph.D. Dissertations**

6. Elizabeth Vinarski, MGS, expected defense date Summer 2027
5. Yidan Wang, MGS, expected defense date Summer 2026
4. Farzaneh Aziz Zanjani, MGS, 2021/12
3. Shuangyu Ge, MGG, 2019/08
2. Peng Li, MGG, 2015/11
1. Qiong Zhang, MGG, 2014/06

### **c. M.S. Theses**

2. Elizabeth Vinarski, MGS, 2021-2022 (transferred to PhD Program)
  1. Khang Vo, MGS, 2024/03
- (MGG: Marine Geology and Geophysics; MGS: Marine Geosciences)*