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EDUCATION

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

EMPLOYMENT HISTORY

2019/06-present Professor, 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

RESEARCH INTERESTS

Volcano Seismology Earthquake Relocation
Subduction Zone Earthquakes Seismic Velocity/Attenuation Tomography
Induced Seismicity Earthquake Interaction and Triggering

HONORS AND AWARDS

Provost's Research Award, University of Miami, 2020
SEEDS You Choose Leadership Award, University of Miami, 2013
Outstanding Student Paper Award in Seismology Section, Fall AGU Meeting, 2003
Scholarship of Chinese Academy of Sciences, Peking University, 2000
Prize for Excellent Academic Performance, Peking University, 2000

PUBLICATIONS

- **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.
- 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.
- **Lin, G.** (2020), Waveform cross-correlation relocation and focal mechanisms for the 2019 Ridgecrest earthquake sequence, *Seism. Res. Lett.*, 7, doi: 10.1785/0220190277.
- 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.
- 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.
- **Lin, G.** (2019), Spatiotemporal variations of in situ Vp/Vs ratio within the Salton Sea Geothermal Field, southern California, *Geothermics*.
- 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*.

- 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.
- **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.
- **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.
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- **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.
- 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.
- 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.
- **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.
- **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.
- **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.
- **Lin, G.** (2014), Three-dimensional compressional attenuation model (Qp) for the Salton Trough, southern California, *Bull. Seism. Soc. Am.*, 104, doi: 10.1785/0120140049.
- 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.
- **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.
- **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.
- 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.
- **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.
- **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.
- **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.
- 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.
- **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.

- 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.
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- **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.
- **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.
- 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.
- **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.
- **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.
- **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.
- **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.
- 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.
- **Lin, G.** and P. M. Shearer (2006), The COMLOC earthquake location package, *Seism. Res. Lett.*, 77, 440- 444.
- **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.
- 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.
- **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.