

Curriculum Vitae

Fan-Chi Lin

University of Utah
Geology and Geophysics
271 FASB, 115 S 1460 E
Salt Lake City, UT 84112
(Phone) (801) 581-4373

Citizenship: Taiwan
Date of Birth: May 31, 1978
(Web) <http://noise.earth.utah.edu>
(Email) FanChi.Lin@utah.edu

Google Scholar: <https://scholar.google.com/citations?user=236h7IEAAAJ&hl=en>

Research Interests

Ambient noise seismology; interferometry; seismic surface waves; seismic tomography; crust and upper mantle structure; wave propagation; seismic anisotropy; seismic attenuation; surface wave amplification; density tomography; inner core structure; Yellowstone; volcanic system; hydrothermal system; and geothermal system.

Education

2005 to 2009 Ph.D. University of Colorado at Boulder, USA.

Advisor: Michael Ritzwoller

2003 – 2005 M.S. Drexel University, USA.

Advisor: Guoliang Yang and Steve McMillan

1996 – 2000 B.S. National Tsing Hua University, Taiwan.

Positions Held

2013 – current Assistant Professor, Department of Geology and Geophysics, The University of Utah.

2015 – current Visiting Associate in Geophysics, Seismological Laboratory, California Institute of Technology.

2011 – 2013 Post Doctoral Scholar, Seismological Laboratory, California Institute of Technology.

2009 – 2011 Research Associate, Department of Physics, University of Colorado at Boulder.

2006 – 2009 Research Assistant, Department of Physics, University of Colorado at Boulder.

2005 – 2006 Teaching Assistant, Department of Physics, University of Colorado at Boulder.

2004 – 2005 Research Assistant, Department of Physics, Drexel University.

2003 – 2004 Teaching Assistant, Department of Physics, Drexel University.

2002 – 2003 Research Assistant, Institute of Molecular Biology, Academia Sinica, Taiwan.

Honors and Awards

National Science Foundation CAREER Award, 2018

IRIS Early Career Investigators Colloquium Travel Funds, 2018

EarthScope Speaker Series, 2015-2016

SSA Charles F. Richter Early Career Award, 2015

Director's Post Doc Fellowship, Seismological Laboratory, Caltech, 2011

AGU Fall Meeting Outstanding Student Paper Award 2009

Geophysical Journal International Student Author Award 2008.

SEG Denver Geophysical Society Scholarship 2008-2009

SEG GSH/Charlie & Jean Smith Scholarship 2008-2009

External Professional Services

Member of IRIS Data Services Standing Committee (DSSC; 2018 – present)

Associate Editor for JGR-Solid Earth (2016 – present)

SSA Honors Committee (2016 – present)

Session Convener of the DEEP-2018 International Symposium

Special Session Convener /Chair of the 2018 AOGS Annual Meeting

Special Session Convener /Chair of the 2018 SSA Annual Meeting

Instructor of 2017 IRIS USArray Advanced Short Course

Session Convener/Chair of the 2017 AGU Fall Meeting

Special Session Chair of the 2017 SSA Annual Meeting

Member of Transportable Array Advisory Committee (TAAC; 2014 – 2016)

Node Owner/ User Group Meeting Organizer of the 2016 AGU meeting

Selection Committee of the 2016 IRIS Wavefields Demonstration Experiment

Plenary Session Organizer of the 2016 IRIS Workshop

Committee Member of the 2015 National EarthScope Meeting

Peer reviewer for journals (Science, GJI, GRL, JGR, BSSA, EPSL, SRL, Geophysics, Geology, Science Advances, JASA, and Encyclopedia of Exploration Geophysics), book proposals (Cambridge University Press), and grant proposals (New Zealand Marsden Fund, UK Natural Environment Research Council, Swiss National Science Foundation, and NSF)

Liaison and Judge for AGU Outstanding Student Paper Award

Convener and Chair for Seismology Special Session, WPGM 2010

Internal Services

SEG Student Chapter Faculty Advisor (2014 – present)

Distinguished Lecture Series (DLS) Organizer (Fall 2014)

Hosting 2014 SEG distinguished Lecturer

Member of Department Committees (e.g. Graduate Affairs, Undergraduate Affairs, Geophysics course/special fund, Computer, PICP, and Library Liaison)

Funding History

I. Ongoing sponsored projects

NSF-CAREER: “Advanced Subsurface Imaging Across USArray and Intermountain Seismic Belt Using Dense Seismic Arrays” (PI; 7/1/18 – 6/30/23, \$545,048)

NSF-RAPID: “Seismic deployment in response to the 2018 Kilauea Lower East Rift Zone eruption and summit explosions” (PI; 6/15/18 – 5/31/19, \$48,510)

NSF-CyberSEES: “Collaborative Research: Real-time Ambient Noise Seismic Imaging for Subsurface Sustainability” (PI; 1/15/15 – 1/14/19, \$404,312 to Utah)

Southern California Earthquake Center (SCEC): “Determination of Shallow Crustal Structure in Southern California and SCEC Community Model Validation Using Ambient-noise-derived Rayleigh Wave Ellipticity” (PI; 05/1/2017-9/30/2018, \$30,000)

II. Completed sponsored projects

University of Utah Research Incentive Seed Grant Program: “Imaging the Cascadia Subduction Zone with unprecedented detail using receiver function and dense geophone arrays” (PI; 01/01/2017-06/30/2018, \$ 17,383)

KAUST Office of Competitive Research Funds: “Collaborative Research: Mapping Faults and Scatterers by Natural Migration of Surface Waves in Earthquake, Exploration, and Engineering Data” (PI; 01/01/2015 - 12/31/2017, \$659,510 to Utah)

USGS EHP: “Collaborative Research: Analysis of a New Broadband Seismic Survey Across the Los Angeles Basin to Determine Velocity and Structure” (PI; 01/01/2017-12/31/2017, \$31,264 to Utah)

State of Utah: “Quantifying Subsurface Flux Between the North and South Arms of the Great Salt Lake: Solving the Causeway Puzzle” (Co-PI; 07/01/14 - 06/30/15, \$ 70,518)

Caltech sub-award, originally from NSF-EarthScope: “Extracting Seismic Core Phases with Array Interferometry” (PI; 07/01/13 - 06/30/16, \$ 40,742)

DOE/NETL: “Enhanced Geothermal System Concept Testing and Development (Phase 2A&B)” (Co-I; 10/1/16 – 3/15/18)

III. Research Gifts

Signal Hill Petroleum: “General Research on Seismic Interferometry” (One Time Research Gift; 8/01/2014, \$50,000)

Publications (PDF files and an up-to-date list available at <http://noise.earth.utah.edu/>)

(*denotes graduate advisee; **denotes postdoctoral advisee)

Citation statistics from Google Scholar: Total citations = 3718; h-index = 25; i10-index: 34.

I. Peer-Reviewed Papers

52. Xie, L., Y. Xie, S.-M. Wu*, **F.-C. Lin**, & W. Song, Communication efficient signal detection for distributed ambient noise imaging. Asilomar, 2018.
51. Jiang, C., Schmandt, B., Farrell, J., **Lin, F.-C.** and Ward**, K.M., Seismically anisotropic magma reservoirs underlying silicic calderas. *Geology*, doi: <https://doi.org/10.1130/G45104.1>, 2018.
50. Justin, R.S., K.R. Anderson, S. Bilek, M. Brudzinski, X. Chen, H. DeShon, C. Hayward, M. Karplus, K. Keranen, C. Langston, **F.-C. Lin**, M.B. Magnani, & R.L. Woodward, A Community Experiment to Record the Full Seismic Wavefield in Oklahoma. *Seismological Research Letters*, doi: <https://doi.org/10.1785/0220180079>, 2018.
49. Farrell, J., Wu*, S.-M., Ward**, K.M., & **Lin, F.-C.** Persistent Noise Signal in the Fairfield Nodal Three-Component 5-Hz Geophones. *Seismological Research Letters*, doi: <https://doi.org/10.1785/0220180073>, 2018.
48. Lynner, C., Beck, S. L., Zandt, G., Porritt, R. W., **Lin, F.-C.**, & Eilon, Z. C. Midcrustal deformation in the Central Andes constrained by radial anisotropy. *Journal of Geophysical Research: Solid Earth*, 123. <https://doi.org/10.1029/2017JB014936>, 2018.
47. Jiang, C., B. Schmandt, S.M. Hansen, S. Dougherty, R.W. Clayton, J. Farrell, and **F.-C. Lin**, Rayleigh and S wave tomography constraints on subduction termination and lithospheric foundering in central California, *Earth Planet. Sci. Lett.*, 488, doi:10.1016/j.epsl.2018.02.009, 2018.
46. Bowden, D. C., Tsai, V. C., & **Lin, F.-C.**, Amplification and attenuation across USArray using ambient noise wavefront tracking, *J. Geophys. Res. Solid Earth*, 122, doi:10.1002/2017JB014804, 2017.
45. Wu*, S.-M., K. Ward**, J. Farrell, **F.-C. Lin**, M. Karplus, and R. B. Smith, Anatomy of Old Faithful from subsurface seismic imaging of the Yellowstone Upper Geyser Basin, *Geophys. Res. Lett.*, 44. doi:10.1002/2017GL075255, 2017.
44. Ward**, K.M. & **F.-C. Lin**, On the Viability of Using Autonomous Three-Component Nodal Geophones to Calculate Teleseismic Ps Receiver Functions with an application to Old Faithful, Yellowstone, *Seismological Research Letters*, DOI: 10.1785/0220170051, 2017.
43. Wang*, Y., **F.-C. Lin**, B. Schmandt, J. Farrell, Ambient noise tomography across Mount St. Helens using a dense seismic array, *J. Geophys. Res. Solid Earth*, 122, doi:10.1002/2016JB013769, 2017.

42. Yeck, W., Sheehan, A., Stachnik, J., and **F.-C. Lin**, Offshore Rayleigh Group Velocity Observations of the South Island, New Zealand, from Ambient Noise Data, *Geophys. J. Int.*, 209 (2): 827-841. doi: 10.1093/gji/ggx054, 2017.
41. Valero, M., G. Kamath, J. Clemente, Y. Xie, **F.-C. Lin**, and W.Z. Song, Real-time Ambient Noise Subsurface Imaging in Distributed Sensor Networks, The 3rd IEEE International Conference on Smart Computing (SMARTCOMP 2017), 2017.
40. Shen, W., C. Alvizuri, **F.-C. Lin**, and C. Tape, A one-dimensional seismic model for Uturuncu volcano, Bolivia, and its impact on full moment tensor inversions, *Geosphere*, 13 (1),1–10, doi:10.1130/GES01353.1, 2017.
39. Workman*, E., **F.-C. Lin**, and K. D. Koper, Determination of Rayleigh wave ellipticity across the Earthscope Transportable Array using single-station and array-based processing of ambient seismic noise, *Geophys. J. Int.*, 208 (1): 234-245, doi: 10.1093/gji/ggw381, 2017.
38. Shen, W., M.H. Ritzwoller, D. Kang, Y. Kim, J. Ning, **F.-C. Lin**, W. Wang, Y. Zheng, and L. Zhou, A seismic reference model for the crust and uppermost mantle beneath China from surface wave dispersion, *Geophys. J. Int.*, 206(2), doi:10.1093/gji/ggw175, 2016.
37. Ball, J., A. Sheehan, J. Stachnik, **F.-C. Lin**, W. Yeck, and J. Collins, Lithospheric shear velocity structure of South Island, New Zealand from amphibious Rayleigh wave tomography, *J. Geophys. Res. Solid Earth*, 121, doi:10.1002/2015JB012726, 2016.
36. AlTheyab, A., **F.C. Lin**, G.T. Schuster, Imaging Near-surface Heterogeneities by Natural Migration of Back-scattered Surface Waves, *Geophys. J. Int.*, 204, 1332-1341, doi:10.1093/gji/ggv511, 2016
35. Schmandt, B., **F.C. Lin**, and K. Karlstrom, Distinct crustal isostasy trends east and west of the Rocky Mountain Front, *Geophys. Res. Lett.*, 42, 10,290–10,298, doi:10.1002/2015GL066593, 2015
34. Huang**, H.H., **F.C. Lin**, V. C. Tsai, and K.D. Koper, High-resolution probing of inner core structure with seismic interferometry, *Geophys. Res. Lett.*, 42, doi:10.1002/2015GL066390, 2015
33. Huang**, H.H., **F.C. Lin**, B. Schmandt, J. Farrell, R.B. Smith, and V.C. Tsai, The Yellowstone magmatic system from the mantle plume to the upper crust, *Science*, DOI:10.1126/science.aaa5648, 2015
32. **Lin, F.C.**, M.D. Kohler, and D.S. Weeraratne, March 11, 2011 Tohoku tsunami wavefront mapping across offshore southern California, *J. Geophys. Res.*, 120, 3350–3362. doi: 10.1002/2014JB011524, 2015
31. Bowden, D.C., V.C. Tsai, **F.C. Lin**, Site Amplification, Attenuation and Scattering from Noise Correlation Amplitudes Across a Dense Array in Long Beach, *Geophys. Res. Lett.*, 42: 1360–1367. doi: 10.1002/2014GL062662, 2015
30. Ball, J.S., A.F. Sheehan, J.C. Stachnik, **F.C. Lin**, J.A. Collins, A Joint Monte Carlo Analysis of Seafloor Compliance, Rayleigh Wave Dispersion and Receiver Functions

- at Ocean Bottom Seismic Stations offshore New Zealand, *Geochem., Geophys., Geosys.*, 15, 5051–5068, doi:10.1002/2014GC005412, 2014
29. **Lin, F.C.** and B. Schmandt, Upper crustal azimuthal anisotropy across the contiguous US determined by Rayleigh wave ellipticity, *Geophys. Res. Lett.*, 41, doi:10.1002/2014GL062362, 2014
 28. Schmandt, B. and **F.C. Lin**, P- and S-wave tomography of the mantle beneath the United States, *Geophys. Res. Lett.*, 41, doi:10.1002/2014GL061231, 2014
 27. Yu, H., B. Guo, S. Hanafy, **F.C. Lin**, G.T. Schuster, Direct detection of near-surface faults by migration of back-scattered surface waves. *SEG Technical Program Expanded Abstracts 2014*: pp. 2135-2139. doi: 10.1190/segam2014-0737.1, 2014
 26. **Lin, F.C.**, V.C. Tsai, and B. Schmandt, 3-D crustal structure of the western United States: application of Rayleigh-wave ellipticity extracted from noise cross-correlations, *Geophys. J. Int.*, doi: 10.1093/gji/ggu160, 2014
 25. Kao, H., Y. Behr, C. Currie, R. Hyndman, J. Townend, **F.-C. Lin**, M.H. Ritzwoller, S.-J. Shan, and J. He, Ambient seismic noise tomography of Canada and adjacent regions: Part I Crustal structures, *J. Geophys. Res.*, 118, 5865-5887, doi:10.1002/2013JB010535, 2013
 24. **Lin, F.C.** and V.C. Tsai, Seismic Interferometry with Antipodal Station Pairs, *Geophys. Res. Letts*, 40, doi:10.1002/grl.50907, 2013.
 23. **Lin, F.C.**, D. Li, R. W. Clayton, and D. Hollis, High-resolution 3D shallow crustal structure in Long Beach, California: Application of ambient noise tomography on a dense seismic array, *Geophysics*, 78(4), Q45-Q56, doi:10.1190/geo2012-0453.1, 2013.
 22. Savage, M.K., **F.C. Lin**, and J. Townend, Ambient noise cross-correlation observations of fundamental and higher-mode Rayleigh wave propagation governed by basement resonance, *Geophys. Res. Letts.*, 40, doi:10.1002/grl.50678, 2013.
 21. **Lin, F.**, V.C. Tsai, B. Schmandt, Z. Duputel, and Z. Zhan, Extracting Seismic Core Phases with Array Interferometry, *Geophys. Res. Letts.*, 40, doi:10.1002/grl.50237, 2013.
 20. Shen, W., M.H. Ritzwoller, V. Schulte-Pelkum, and **F. Lin**, Joint inversion of surface wave dispersion and receiver functions: A Bayesian Monte-Carlo approach, *Geophys. J. Int.*, 192(2), 807-836, doi: 10.1093/gji/ggs050, 2013.
 19. **Lin, F.**, D. Li, R. W. Clayton, and D. Hollis, Interferometry with a dense 3D dataset, SEG 2012 Extended Abstract, 2012.
 18. **Lin, F.**, B. Schmandt, and V.C. Tsai, Joint inversion of Rayleigh wave phase velocity and ellipticity using USArray: constraining velocity and density structure in the upper crust, *Geophys. Res. Letts.*, 39, L12303, doi:10.1029/2012GL052196, 2012.
 17. **Lin, F.**, V. Tsai, and M.H. Ritzwoller, The local amplification of surface waves: A new observable to constrain elastic velocities, density, and anelastic attenuation, *J. Geophys. Res.*, 117, B06302, doi:10.1029/2012JB009208, 2012.
 16. **Lin, F.** and M.H. Ritzwoller, Apparent anisotropy in inhomogeneous isotropic media,

Geophys. J. Int., doi: 10.1111/j.1365-246X.2011.05100.x, 2011.

15. Ritzwoller, M.H., **F. Lin**, and W. Shen, Ambient noise tomography with a large continental seismic array, *Compte Rendus Geoscience*, doi:10.1016/j.crte.2011.03.007, 2011.
14. **Lin, F.** and M.H. Ritzwoller, Helmholtz surface wave tomography for isotropic and azimuthally anisotropic structure, *Geophys. J. Int.*, 186, doi: 10.1111/j.1365-246X.2011.05070.x, 2011.
13. **Lin, F.**, M.H. Ritzwoller, and W. Shen, On the reliability of attenuation measurements from ambient noise crosscorrelations, *Geophys. Res. Letts.*, 38, L11303, doi:10.1029/2011GL047366, 2011.
12. **Lin, F.**, M.H. Ritzwoller, Y. Yang, M.P. Moschetti, and M.J. Fouch, Complex and variable crustal and uppermost mantle seismic anisotropy in the western United States, *Nature Geoscience*, 4, 55-61, doi:10.1038/ngeo1036, 2011.
11. Moschetti, M. P., M. H. Ritzwoller, **F. Lin**, and Y. Yang, Crustal shear wave velocity structure of the western United States inferred from ambient seismic noise and earthquake data, *J. Geophys. Res.*, 115, B10306, doi:10.1029/2010JB007448, 2010.
10. **Lin, F.** and M.H. Ritzwoller, Empirically determined finite frequency sensitivity kernels for surface waves, *Geophys. J. Int.*, 182, 923-932, doi: 10.1111/j.1365-246X.2010.04643.x, 2010.
9. Moschetti, M.P., M.H. Ritzwoller, **F. Lin**, and Y. Yang, Seismic evidence for widespread crustal deformation caused by extension in the western USA, *Nature*, 464, Number 7290, 885-889, 8 April 2010.
8. **Lin, F.**, M.H. Ritzwoller, and R. Snieder, Eikonal Tomography: Surface wave tomography by phase-front tracking across a regional broad-band seismic array, *Geophys. J. Int.*, doi: 10.1111/j.1365-246X.2009.04105.x, 2009.
7. Yang, Y., M. H. Ritzwoller, **F. Lin**, M. P. Moschetti, and N. M. Shapiro, Structure of the crust and uppermost mantle beneath the western United States revealed by ambient noise and earthquake tomography, *J. Geophys. Res.*, 113, B12310, doi:10.1029/2008JB005833, 2008.
6. **Lin, F.**, M.P. Moschetti, and M.H. Ritzwoller, Surface wave tomography of the western United States from ambient seismic noise: Rayleigh and Love wave phase velocity maps, *Geophys. J. Int.*, doi:10.1111/j1365-246X.2008.03720.x, 2008.
5. **Lin, F.**, M.H. Ritzwoller, J. Townend, M. Savage, S. Bannister, Ambient noise Rayleigh wave tomography of New Zealand, *Geophys. J. Int.*, doi: 10.1111/j.1365-246X.2007.03414.x, 2007.
4. Bensen, G.D., M.H. Ritzwoller, M.P. Barmin, A.L. Levshin, **F. Lin**, M.P. Moschetti, N.M. Shapiro, and Y. Yang, Processing seismic ambient noise data to obtain reliable broad-band surface wave dispersion measurements, *Geophys. J. Int.*, 169, 1239-1260, doi: 10.1111/j.1365-246X.2007.03374.x, 2007.
3. **Lin, F.**, M. H. Ritzwoller, and N. M. Shapiro, Is ambient noise tomography across ocean basins possible?, *Geophys. Res. Lett.*, 33, L14304, doi:10.1029/2006GL026610,

2006.

2. Yang, Y., **F. Lin** and G. Yang, A temperature control device for single molecule measurements using the AFM, *Rev. Sci. Instrum.*, 77, 063701(1-5), 2006.
1. C-L. Chyan, **F. Lin**, H. Peng, J-M. Yuan, C-H. Chang, S-H. Lin and G. Yang, Reversible Mechanical Unfolding of Single Ubiquitin Molecules, *Biophys. J.* 87, 3995-4006, 2004.

II. Manuscripts submitted or in press

8. Jiang, C., B. Schmandt, K. Ward**, **F-C. Lin**, and L.L. Worthington, Upper mantle seismic structure of Alaska from Rayleigh and S-wave tomography, submitted.
7. Li, J., **F-C. Lin**, A.A. Allam, Y. Ben-Zion, and G. Schuster, Wave Equation Dispersion Inversion of Surface Waves Recorded on Irregular Topography, submitted.
6. Valero, M., S. Wang, F. Li, **F-C. Lin**, and W. Song, Real-time Cooperative Analytics for Ambient Noise Tomography in Sensor Networks, submitted
5. Berg*, E., **F-C. Lin**, A.A. Allam, H. Qiu, W. Shen, and Y. Ben-Zion, Tomography of Southern California via Bayesian Joint Inversion of Rayleigh Wave Ellipticity and Phase Velocity from Ambient Noise Cross-Correlations, submitted.
4. Ward**, K. M. and **F-C. Lin**, Lithospheric Structure Across the Alaskan Cordillera from the Joint Inversion of Surface Waves and Receiver Functions, submitted.
3. Kohler, M. D., A.A. Allam**, A. Massari, and **F-C. Lin**, Detection of building damage using Helmholtz tomography, in press.
2. Share, P.-E., A.A. Allam**, Y. Ben-Zion, **F.-C. Lin**, and F.L. Vernon, Structural properties of the San Jacinto fault zone at Blackburn Saddle from seismic data of a dense linear array, submitted.
1. Huang, H.H., V. Tsai, **F.-C. Lin**, W. Wang, and J. Chaput, Synthesis of body-wave information from global earthquake coda correlation: A numerical evaluation, submitted.

Invited Presentations (since year 2013)

December 2018 – American Geophysical Union Fall Meeting, DC.

May 2018 – Yellowstone Volcano Observatory 2018 Coordination meeting, Yellowstone.

April 2018 – Department of Geosciences, University of Alaska Fairbanks.

November 2017 – Institute of Earth Sciences, Academia Sinica, Taiwan.

November 2017 – Department of Earth Sciences, National Central University, Taiwan.

November 2017 – Taiwan Earthquake Research Center Annual meeting, Taiwan

August 2017 – IRIS Short Course, Indiana University

June 2017 – Cargese Summer School, Corsica, France

February 2017 – Department of Geophysics, Stanford University

November 2016 – Department of Geoscience, University of Wisconsin-Madison

October 2016 – Department of Earth, Atmospheric, and Planetary Sciences, Purdue U.
September 2016 – Earth Science and Engineering, KAUST, Saudi Arabia
June 2016 – Institute of Earth Sciences, Academia Sinica, Taiwan
April 2016 – Seismological Society of America Annual Meeting, two invited talks
April 2016 – Department of Earth Sciences, University of Southern California
March 2016 – Department of Earth Science, Rice University
February 2016 – Department of Geology and Geophysics, University of Hawaii
January 2016 – School of Earth and Atmospheric Sciences, Georgia Tech
December 2015 – American Geophysical Union Fall Meeting, two invited talks
December 2015 – Department of Geosciences, Colorado State University
November 2015 – Department of Earth and Planetary Sciences, U of New Mexico
October 2015 – Department of Geology, Utah State University
October 2015 – Geology/Physics/Astronomy Departments, U of Wisconsin-Whitewater
July 2015 - Department of Geophysics, Wuhan University, Wuhan, China
July 2015 - Institute of Geodesy and Geophysics, Chinese Academy of Sciences, Wuhan
February 2015 – CSIM Consortium Meeting, Houston, TX
January 2015 – Chinese Association for Science and Technology at Utah, Salt Lake City
December 2014 – American Geophysical Union Fall Meeting, San Francisco, CA
October 2014 – Center for Earthquake Research and Information, University of Memphis
July 2014 – Asia Oceania Geosciences Society 11th Annual Meeting, Sapporo, Japan
July 2014 – School of Earth and Space Sciences, USTC, Hefei, China
May 2014 – Department of Earth and Planetary Sciences Department, UC Santa Cruz
December 2013 – American Geophysical Union Fall Meeting, San Francisco, CA
November 2013 – Interferometry Workshop, KAUST, Saudi Arabia
May 2013 – Arrays in Global Seismology Workshop, Raleigh, NC
May 2013 – EarthScope National Meeting, Raleigh, NC
April 2013 – IRIS Webinar Series
April 2013 – Department of Earth, Planetary, and Space Sciences, UC Los Angeles
March 2013 – Department of Earth and Atmospheric Sciences, Cornell
March 2013 – Department of Geological Sciences, Brown University
February 2013 – Department of Geology and Geophysics, University of Utah
February 2013 – School of Earth Sciences, The Ohio State University
February 2013 – Department of Earth & Environmental Science, New Mexico Tech

February 2013 – School of Earth and Space Exploration, Arizona State University

January 2013 – Scripps Institution of Oceanography, UC San Diego

January 2013 – Earth System Science Programme, The Chinese University of Hong Kong

Advising & Mentoring

I. Postdoctoral Advisees

Current postdoctoral advisees:

N/A

Past postdoctoral advisees:

Kevin Ward (09/01/2016 – 07/31/2018)

- Current position: Assistant Professor, South Dakota School of Mines & Technology

Amir Allam (07/01/2015 – 6/30/2017)

- Current position: Assistant Research Professor, University of Utah

Hsin-Hua Huang (09/01/2014 – 8/31/2016)

- Current position: Assistant Research Fellow, Academia Sinica, Taiwan

Jamie Farrell (01/01/2015 – 06/30/2015)

- Current position: Assistant Research Professor, University of Utah

Oner Sufri (05/01/2015 – 06/30/2015)

- Current position: Postdoc Scholar, Southern Methodist University

II. Student Advisees

Current graduate advisees:

Yadong Wang (PhD student; 08/15/2014 – present)

Sin-Mei Wu (PhD student; 08/15/2015 – present)

Elizabeth Pettinger (PhD student; 08/15/2015 – present)

Past graduate advisees:

Eli Workman (MS student; 08/15/2014 – 7/31/2016)

- Thesis: Determination of Rayleigh Wave Ellipticity Across the EarthScope Transportable Array Using Single-station and Array-based Processing of Ambient Seismic Noise

- Current position: Senior data analyst specialist, Ensco Inc.

Thesis committee membership (excluding advisees):

Maria Valero (PhD, current), University of Georgia

Guanning Pang (PhD, current), Utah

Andy Trow (MS, 2018), Utah

Lisa Linville (PhD, 2017), Utah
Yao Yao (PhD, 2016), Utah
Chase Batchelor (MS, 2016), Utah
Michael Jungle (MS, 2016), Utah
Abdullah AlTheyab (PhD, 2016), KAUST

Undergraduate advisees:

Andy Trow (05/15/2015 – 05/31/2016)
Matthew Miller (06/01/2018 – current)
Patrick Cunningham (07/05/2018 – current)
James McVey (07/12/2018 – current)

III. Visiting scholar and student

Cheng Li (graduate student; USTC, China; 01/16/2017 – 5/09/2017)
Ching-Yu Cheng (graduate student; NCU, Taiwan; 10/27/2016 – 12/09/2016)
Santiago Rábade (graduate student; UNAM, Mexico; 10/31/2016 – 12/09/2016)
Kaixiang Wang (undergraduate; USTC, China; 06/24/2016 – 8/24/2016)
Zhaoguo Wang (PhD; Northwest University, China; 02/01/2015 – 1/31/2016)

Teaching

GEO 6220/7220 – Theoretical Seismology (Spring 2017)
GEO 5220/6222 – Seismology II: Seismic Imaging (Spring 2017 & Spring 2018)
GEO 3010 – Geophysics (Spring 2015, Spring 2016, Spring 2018)
GEO 5210/6211 – Seismology I (Fall 2014)
GEO 5920-003/6920-004 – Seismic Interferometry (Spring 2014 & Fall 2015)