Curriculum Vitae May 2022

Junle Jiang

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RESEARCH INTERESTS

I am interested in studying the dynamic processes in Earth's crust and strive to understand their mechanisms, predictability, and societal impacts, with the ultimate goals to improve the assessment and mitigation of geo-hazards and safe, sustainable exploration of geo-energy. Our current projects are focused on microseismicity, large earthquakes, and crustal deformation due to tectonic and human activities over timescales from seconds to centuries, through integrating laboratory rock mechanics insights, theoretical and computational models, along with seismic and geodetic observations from Global Navigation Satellite System (GNSS) and Interferometric Synthetic Aperture Radar (InSAR).

EDUCATION

Caltech, Pasadena, CA, USA	Geophysics	Ph.D. , 2016
Caltech, Pasadena, CA, USA	Computational Science and Engineering	Ph.D. Minor , 2014
Caltech, Pasadena, CA, USA	Geophysics	M.Sc., 2011
Peking University, Beijing, China	Physics	B.Sc. , 2009

APPOINTMENTS

Assistant Professor, School of Geosciences, University of Oklahoma	2020/08-present
Postdoctoral Associate, Cornell University	2018/06-2020/07
Green Postdoctoral Scholar, Scripps Institution of Oceanography, UC San Diego	2016/02-2018/05
Research and Teaching Assistant, Seismological Laboratory, Caltech	2009/09-2015/12

PHD DISSERTATION

Jiang, J. (2016), Probabilistic Imaging and Dynamic Modeling of Earthquake Source Processes, California Institute of Technology. doi:10.7907/Z9639MQC. (Advisors: M. Simons & N. Lapusta)

REFEREED PUBLICATIONS

- 1. Materna, K., Barbour, A., **Jiang, J.**, and Eneva, M. (2022) Detection of aseismic slip and poroelastic reservoir deformation at the North Brawley Geothermal Field from 2009-2019, *J. Geophys. Res. Solid Earth*. 127, e2021JB023335, doi:10.1029/2021JB023335
- Jiang, J., Erickson, B., Lambert, V., Ampuero, J.-P., Ando, R., Barbot, S., Cattania, C., Dal Zilio, L., Duan, B., Dunham, E., Gabriel, A-A., Lapusta, N., Li, D., Li, M., Liu, D., Liu, D., Liu, Y., Ozawa, S., Pranger, C., van Dinther, Y. (2022). Community-driven code comparisons for three-dimensional dynamic modeling of sequences of earthquakes and aseismic slip (SEAS), *J. Geophys. Res. Solid Earth*, 127, e2021JB023519, doi:10.1029/2021JB023519. Media: EOS Research Spotlight.
- 3. **Jiang, J.**, Bock, Y., and Klein, E. (2021). Coevolving early afterslip and aftershock signatures of a San Andreas fault rupture, *Science Advances*, 7, doi:10.1126/sciadv.abc1606. Media: OU News.
- 4. **Jiang, J.**, & Lohman, R. B. (2020). Coherence-guided InSAR deformation analysis in the presence of ongoing land surface changes in the Imperial Valley, California. *Remote Sens. Environ.*, 112160, doi:10.1016/j.rse.2020.112160.

- 5. Erickson, B.*, **Jiang, J.***, Barall, M., Lapusta, N., Dunham, E. M., Harris, R., Abrahams, L., Allison, K., Ampuero, J.-P., Barbot, S., Cattania, C., Elbanna, A., Fialko, Y., Idini, B., Kozdon, J., Lambert, V., Liu, Y., Luo, Y., Ma, X., Segall, P., Shi, P., and Wei, M. (2020). The community code verification exercise for simulating sequences of earthquakes and aseismic slip (SEAS), *Seismo. Res. Lett.*, *91*(2A), 874–890, doi:10/10.1785/0220190248. (*equal contributions)
- 6. Tymofyeyeva, E., Fialko, Y., **Jiang, J.**, Xu, X., Sandwell, D., Bilham, R., Rockwell, T. K., Blanton, C., Burkett, F., Gontz, A., and Moafipoor, S. (2019). Slow slip event on the southern San Andreas fault triggered by the 2017 Mw8.2 Chiapas (Mexico) earthquake. *J. Geophys. Res. Solid Earth*, 124, doi:10.1029/2018JB016765. Media: EOS Research Spotlight.
- 7. Xu, X., Ward, L., Jiang, J., Smith-Konter, B., Tymofyeyeva, E., Lindsey, E., Sylvester, A. G., and Sandwell, D. T. (2018). Surface creep rate of the Southern San Andreas Fault modulated by stress perturbations from nearby large events, *Geophys. Res. Lett.*, 45, 10259–10268, doi:10.1029/2018GL080137.
- 8. Gombert, B., Duputel, Z., Jolivet, R., Simons, M., Jiang, J., Liang, C., Fielding, E. J., and Rivera, L. (2018). Strain budget of the Ecuador–Colombia subduction zone: A stochastic view, *Earth Planet. Sci. Lett.*, 498, 288–299, doi:10.1016/j.epsl.2018.06.046.
- 9. Fan, W., Bassett, D., **Jiang, J.**, Shearer, P. M., and Ji, C. (2017). Rupture evolution of the 2006 Java tsunami earthquake and the possible role of splay faults, *Tectonophysics*, 721, 143–150, doi:10.1016/j.tecto.2017.10.003.
- 10. Michel, S., Avouac, J.-P., Lapusta, N., and **Jiang, J.** (2017). Pulse-like partial ruptures and high-frequency radiation at creeping-locked transition during megathrust earthquakes, *Geophys. Res. Lett.*, 44, 8345–8351, doi:10.1002/2017GL074725.
- 11. **Jiang, J.** and Lapusta, N. (2017). Connecting depth limits of interseismic locking, microseismicity, and large earthquakes in models of long-term fault slip, *J. Geophys. Res. Solid Earth, 122*, 6491–6523, doi:10.1002/2017JB014030.
- 12. Yue, H., Simons, M., Duputel, Z., **Jiang, J.**, Fielding, E., Liang, C., Owen, S., Moore, A., Riel, B., Ampuero, J. P., and Samsonov, S. V. (2016). Depth varying rupture properties during the 2015 Mw 7.8 Gorkha (Nepal) earthquake, *Tectonophysics*, 714–715, 44-54, doi:10.1016/j.tecto.2016.07.005.
- 13. **Jiang, J.** and Simons, M. (2016). Probabilistic imaging of tsunamigenic seafloor deformation during the 2011 Tohokuoki Earthquake, *J. Geophys. Res. Solid Earth*, 121, 9050–9076, doi:10.1002/2016JB013760. Media: EOS Research Spotlight.
- 14. **Jiang, J.** and Fialko, Y. (2016). Reconciling seismicity and geodetic locking depths on the Anza section of the San Jacinto fault, *Geophys. Res. Lett.*, 43, 10663–10671, doi:10.1002/2016GL071113.
- 15. Bletery, Q., Sladen, A., **Jiang, J.**, and Simons, M. (2016). A Bayesian source model for the 2004 great Sumatra-Andaman earthquake, *J. Geophys. Res. Solid Earth*, 121, 5116–5135, doi:10.1002/2016JB012911.
- 16. **Jiang, J.** and Lapusta, N. (2016). Deeper penetration of large earthquakes on seismically quiescent faults, *Science*, 352(6291), 1293–1297, doi:10.1126/science.aaf1496. Media: New Yorker, Phys.org.
- 17. Duputel, Z., Jiang, J., Jolivet, R., Simons, M., Rivera, L., Ampuero, J.-P., Riel, B., Owen, S. E., Moore, A. W., Samsonov, S. V., Culaciati, F. O., and Minson, S. E. (2015). The Iquique earthquake sequence of April 2014: Bayesian modeling accounting for prediction uncertainty, *Geophys. Res. Lett.*, 42, 7949–7957, doi:10.1002/2015GL065402.
- 18. Bletery, Q., Sladen, A., Delouis, B., Vallée, M., Nocquet, J.-M., Rolland, L., and **Jiang, J.** (2014). A detailed source model for the M_w 9.0 Tohoku-Oki earthquake reconciling geodesy, seismology, and tsunami records, *J. Geophys. Res. Solid Earth*, 119, 7636–7653, doi:10.1002/2014JB011261.
- 19. Minson, S. E., Simons, M., Beck, J. L., Ortega, F., Jiang, J., Owen, S. E., Moore, A. W., Inbal, A., and Sladen, A.(2014). Bayesian inversion for finite fault earthquake source models II: the 2011 great Tohoku-oki, Japan earthquake, *Geophys. J. Int.*, 198(2), 922–940. doi:10.1093/gji/ggu170.
- 20. Wei, S., Graves, R., Helmberger, D. V., Avouac, J.-P., and **Jiang, J.** (2012). Sources of shaking and flooding during the Tohoku-Oki earthquake: A mixture of rupture styles, *Earth Planet. Sci. Lett.*, 333-334(C), 91–100, doi:10.1016/j.epsl.2012.04.006.
- 21. Simons, M., Minson, S. E., Sladen, A., Ortega, F., Jiang, J., Owen, S. E., Meng, L., Ampuero, J. P., Wei, S., Chu, R.,

Helmberger, D. V., Kanamori, H., Hetland, E., Moore, A. W., and Webb, F. H. (2011). The 2011 magnitude 9.0 Tohoku-oki earthquake: Mosaicking the megathrust from seconds to centuries, *Science*, *332*(6036), 1421–1425, doi:10.1126/science.1206731.

DATASETS

- 1. **Jiang, J.**, Erickson, B. et al. (2021). Simulation Data for "Community-Driven Code Comparisons for Three-Dimensional Dynamic Modeling of Sequences of Earthquakes and Aseismic Slip (SEAS)" [Data set]. In *Journal of Geophysical Research*. Zenodo. https://doi.org/10.5281/zenodo.6299674.
- 2. Materna, K., Barbour, A., **Jiang, J.**, and Eneva (2022), Geodetic displacement data near North Brawley Geothermal Field, 2009-2019. Zenodo. https://doi.org/10.5281/zenodo.5949377.
- 3. **Jiang, J.**, Bock, Y., and Klein, E. (2021). Data for "Coevolving early afterslip and aftershock signatures of a San Andreas fault rupture" [Data set]. In *Science Advances*. Zenodo. https://doi.org/10.5281/zenodo.4278477.
- 4. **Jiang, J.**, and Lohman, R. (2020). Data for "Coherence-guided InSAR deformation analysis in the presence of ongoing land surface change in the Imperial Valley, California" [Data set]. In *Remote Sensing of Environment*. Zenodo. https://doi.org/10.5281/zenodo.3911193.

WHITE PAPERS

Lapusta, N., et al., 2019. Modeling Earthquake Source Processes: from Tectonics to Dynamic Rupture, Report to the National Science Foundation. http://seismolab.caltech.edu/pdf/MESP White Paper Main Text 8 March 2019.pdf

PUBLICATIONS IN PROGRESS

- 1. Erickson, B. A., Jiang, J., Lambert, V. R., Abdelmeguid, M., Almquist, M., Ampuero, J., Ando, R., Barbot, S. D., Cattania, C., Chen, A., Dal Zilio, L., Dunham, E. M., Elbanna, A. E., Gabriel, A., Harvey, T., Huang, Y., Kaneko, Y., Kozdon, J. E., Lapusta, N., Li, D., Li, M., Liang, C., Liu, Y., Ozawa, S., Pranger, C., Segall, P., Sun, Y., Thakur, P., Uphoff, C., van Dinther, Y., & Yang, Y., Incorporating Full Elastodynamic Effects and Dipping Fault Geometries in Community Code Verification Exercises for Simulations of Earthquake Sequences and Aseismic Slip (SEAS), in review at *Bull. Seismol. Soc. Amer.* Preprint: https://doi.org/10.31223/X5NP87
- 2. Regmi, N., **Jiang, J.**, Walter, J., and Hayman, N., Mapping landslides in Oklahoma and Arkansas with optical and interferometric synthetic aperture radar imagery, in preparation.
- 3. **Jiang, J.**, Ragon, T., Liang, C., and Simons, M., Bayesian inference of megathrust faulting during and after the 2010 Maule earthquake I: Quantifying uncertainty, resolution, and information content in joint inversions, in preparation for *JGR*.
- 4. **Jiang, J.**, Ragon, T., Liang, C., and Simons, M., Bayesian inference of megathrust faulting during and after the 2010 Maule earthquake II: Characterizing spatiotemporal source processes in three-dimensional subduction zone structures, in preparation for *JGR*.
- 5. **Jiang, J.** and Lapusta, N., Influence of depth-dependent fault permeability and shear zone on earthquake scaling and sequence dynamics, in preparation for *EPSL*.
- 6. **Jiang, J.** and Lapusta, N., Long-term properties of dynamic ruptures and stress redistribution on faults with heterogeneous compressive strength, in preparation for *GJI*.

INVITED TALK

SAGE/GAGE Community Science Workshop

Department of Geosciences Seminar, University of Montana

Earthquake Physics Seminar, University of Southern California

2022/01

2022/01

Berkeley Seismology Laboratory Seminar, University of California, Berkeley	2021/10
GeoSeminar, Department of Geosciences, University of Tulsa	2021/09
Earthquake Science Center Seminar, United States Geological Survey	2021/07
School of Geosciences, University of Oklahoma	2020/03
Andes Seminar, Department of Earth and Atmospheric Sciences, Cornell University	2019/09
Department of Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology	2019/03
Southern California Earthquake Center Annual Meeting	2018/09
Andes Seminar, Department of Earth and Atmospheric Sciences, Cornell University	2018/09
Department of Geology and Geophysics, Woods Hole Oceanographic Institution	2018/03
Department of Earth, Planetary, and Space Sciences, University of California Los Angeles	2017/03
Geophysics Seminar, IGPP, Scripps Institution of Oceanography, University of California, San Diego	2016/03

SELECTED CONFERENCE PRESENTATIONS

- 1. **Jiang, J.**, Erickson, B., Lambert, V., Abdelmeguid, M., Almquist, M., Ampuero, J.-P., Ando, R. Barbot, S., Cattania, C., Chen, A., Dal Zilio, L., Duan, B., Dunham, E. M., Elbanna, A. E., Gabriel, A.-A., Harvey, T., Huang, Y., Kaneko, Y., Kozdon, J. E., Lapusta, N., Li, D., Li, M., Liang, C., Liu, D., Liu, Y., Ozawa, S., Pranger, C., Segall, P., Sun, Y., Thakur, P., Uphoff, C., van Dinther, Y., Yang, Y. (2021, December). Community Code Verification Exercises for Simulations of Earthquake Sequences and Aseismic Slip (SEAS): 3D Effects, Fully Dynamic Ruptures, and Dipping Fault Geometries. In *AGU Fall Meeting 2021*. AGU. (Poster presentation)
- Eiden, E., Devlin, K., Burgi, P., MacQueen, P., Headlam, C., Brill, K.A., Carrillo, C.M., Hamilton, D.S.S., Jiang., J., Barcheck, G. and Hitchcock, P., 2020, December. The IDEEAS Working Group at Cornell University: A New Framework of Collective Leadership for Promoting Justice, Equity, Diversity, and Inclusion in the Geosciences. In AGU Fall Meeting Abstracts (Vol. 2020, pp. ED015-0008) (Poster Presentation). Preprint: doi:10.1002/ essoar.10505326.1.
- 3. **Jiang., J.**, and Lohman, R. B., Characterizing tectonic and anthropogenic ground deformation history in the Imperial Valley, California, using Sentinel-1 InSAR time series, AGU Fall Meeting, San Francisco, CA, Dec. 2019 (Oral Presentation).
- 4. **Jiang., J.** (2019), Perspectives from the SCEC Sequences of Earthquakes and Aseismic Slip (SEAS) Project, SCEC workshop on "How Physics-Based Earthquake Simulators Might Help Improve Earthquake Forecasts," June 18, 2019 (Invited Oral Presentation).
- 5. **Jiang., J.**, Bock, Y., and E. Klein, Imaging slip evolution on the San Andreas fault due to the 2004 Parkfield earthquake, AGU Fall Meeting, Washington D.C., Dec. 2018 (Oral Presentation).
- 6. **Jiang., J.**, and Erickson, B. A. Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS). SCEC Annual Meeting, Sept. 2018 (Invited Oral Presentation).
- 7. **Jiang., J.** and Fialko, Y., Mechanisms of unsteady shallow creep on major crustal faults, AGU Fall Meeting, New Orleans, LA, Dec. 2017 (Oral Presentation).
- 8. **Jiang., J.** and Simons, M., Multiscale probabilistic imaging of tsunamigenic seafloor deformation during the 2011 Tohoku-oki earthquake, SSA Fall Meeting, Denver, CO, Apr. 2017 (Invited Oral Presentation).
- 9. Kirschvink, J. and **Jiang, J.**, Potential Seismic and Tsunami Hazard from the Palau Trench, as viewed from molluscan grazing notches in uplifted coral atolls, GSA Annual Meeting, Oct. 2014 (Oral Presentation).
- 10. **Jiang., J.**, Lapusta, N. and Noda, H., Re-evaluating the seismogenic potential of creeping fault regions: implications from models with rate-and-state friction and enhanced coseismic weakening, AGU Fall Meeting, San Francisco, CA, USA, Dec. 2013 (Invited Oral Presentation).

FUNDED RESEARCH AND WORKSHOPS

Current & Past Research Grants

- PI, "Distinguishing between tectonic and anthropogenic processes in the Salton Sea Geothermal Field," Southern California Earthquake Center (SCEC), \$27,000 2020/02–2022/01
- PI, "Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS)," Southern California Earthquake Center (SCEC), \$45,000/\$50,000/\$56,000/56,000 in each year 2018/02–2022/01
- Co-PI, "Mechanisms of unsteady shallow creep on major crustal faults," Southern California Earthquake Center (SCEC), \$28,000 2018/02–2019/01
- Co-PI, "Microseismicity, geodetic coupling, and earthquake variability on heterogeneous faults: A case study of the Anza section of the San Jacinto Fault," SCEC, \$28,000 2017/02–2018/01
- PI, "Integrated Simulation of Dynamic Earthquakes and Crustal Deformation," Extreme Science and Engineering
 Discovery Environment (XSEDE), 120,000 computing units

 2017/09–2021/06
- Co-PI, "Reconciling seismic and geodetic locking depths on the Anza segment of the San Jacinto Fault." SCEC, \$28,000 2016/02–2017/01

Pending Research Grants

- Co-PI, "Monitoring Hillslope Dynamics Using SAR Time Series and Machine Learning," National Aeronautics and Space Administration (NASA), \$279,991 2022/01–2024/12
- PI, "Numerical modeling of dynamic fracture and deformation in dissimilar fault rocks," American Chemical Society
 Petroleum Research Fund, \$156,000

 2022/09–2024/08
- PI, "Geodetic imaging of earthquakes, fault creep, deformation, and coastal changes at the southern Salton Sea over two decades," SCEC, \$28,000 2022/02–2023/01
- PI, "Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS)," SCEC, \$56,000 2022/02–2023/01
- PI, "Constraining rupture and relaxation dynamics of crustal fault roots with geodetic and microseismic observations,"
 National Science Foundation (NSF) Geophysics Program, \$306,000
 2022/07–2025/06
- Co-PI, "Planning grant: Building community in the Geosciences by focusing on undergraduate research for transfer students," NSF Cultural Transformation in the Geoscience Community (CTGC), \$300,000 2023/09–2026/08
- Collaborator, "Track I Center Catalyst: Geohazards Away from Plate Boundaries (GAPS)," NSF Centers for Innovation and Community Engagement in Solid Earth Geohazards, \$500,000 2022/09–2024/08

Workshop Grants

- PI (w/ B. Erickson), "Workshop for Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS) Fluids, 3D modeling, and Future Directions", SCEC, \$12K. Website. 2021/11/02
- PI (w/ B. Erickson), "Workshop for Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS) Free-Surface effects in 2D/3D models", SCEC, \$12K. Website. 2020/10/30
- PI (w/ B. Erickson), "Workshop for Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS) Full Dynamics and 3D Effects", SCEC, \$12K. Website. 2020/01/09
- PI (w/ B. Erickson), "Workshop for Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS) Exploring Complexity and Resolution", SCEC, \$12K. Website. 2018/11/29
- PI (w/ R. Harris, B. Erickson), "A Joint Workshop: Rupture Dynamics Code Validation and Comparing Simulations of Earthquake Sequences and Aseismic Slip", SCEC, \$18.5K. Website. 2018/04/23

HONORS AND AWARDS

Green Postdoctoral Fellowship, IGPP, SIO, UCSD	2016-2018
Graduate Student Office Leadership Award, Caltech	2016
Demetriades-Tsafka-Kokkalis Thesis Prize in Seismo-Engineering, Prediction, and Protection, Caltech	2016
Chinese Government Award for Outstanding Self-Financed Students Abroad	2015

Outstanding Student Paper Award, Tectonophysics Section, American Geophysical Union	2015
Honor for Excellent Graduate, Peking University	2009
Petro China Scholarship, Peking University	2007
Dean's List Award for Academic Excellence, Hong Kong University of Science and Technology	2007
Cannon Scholarship, Peking University	2006

TEACHING EXPERIENCE

Instructor,	University	of Oklahoma
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histractor, Chrycisity of Oktaholia	
GPHY5413 Global Geophysics	Fall 2022
GPHY4553 Introduction to Seismology	Spring 2022
GPHY5970 Geophysical Journal Seminar	Fall 2021
GPHY6970 Machine Learning in Geosciences (w/ H. Bedle & M. Pranter)	Fall 2021
GPHY5970 Remote Sensing for Crustal Geophysics	Fall 2021
GPHY5920 Computational Geophysics	Spring 2021
GPHY3440 Mentored Research Experience	Spring 2021
GEOL1114 Physical Geology for Scientists and Engineers	Fall 2020/Spring 2022

Guest Lecturer, Cornell University

EAS2550 Satellite-Based Remote Sensing — Rowena Lohman	Spring 2019 & 2020
EAS7800 Earthquake Record Reading — Geoffrey Abers	Spring 2019
"Teaching & Learning in the Diverse Classroom" Course	Summer 2020

Guest Lecturer, Scripps Institution of Oceanography

SIOG237 Space Geodesy — Yuri Fialko & David Sandwell Spring 2017 & 2018

Graduate Teaching Assistant, California Institute of Technology

Ge11d/102 Introduction to Geophysics — Robert Clayton & Mike Gurnis	Spring 2014
Ge263 Computational Geophysics — Jean-Paul Ampuero, Robert Clayton & Mike Gurnis	Fall 2012
Ge161 Plate Tectonics — Joann Stock	Fall 2011
Ae/ME/Ge266 Dynamic Rupture and Frictional Faulting — Nadia Lapusta	Spring 2011

STUDENT ADVISING/MENTORING

Thesis/Dissertation/Research Advisor

Segun Steven Bodunde (PhD, 2021/08–); Haoyu Li (MS, 2021/08–); Ganiyat Shodunke (PhD, 2021/01–); Alex Arroyo (2nd project PhD, 2022/01–)

Thesis/Dissertation Committee Member

Rachel Neher (PhD, 2022/02-); Raymond Ng (PhD, 2022/03-); Jiewen Zhang (PhD, 2020/10-2021/06)

Research Mentor

Gillian Quiros (UCSD Regents Scholar, 2017/09–2018/05); Xander Zheng (Caltech SURF, Summer 2012); Patrick Ferchaud (École Polytechnique, Summer 2011)

FIELD EXPERIENCE

Campaign GPS survey for the San Jacinto fault, Anza, CA, PI: Y. Fialko, UCSD/SIO	Sept. 2016/2017/2018
Rock sample collection and structure mapping of rock islands, Palau, PI: J. Kirschvink, Caltech	Mar. 2017
Seismic deployment at Anza, California, PI: F. Vernon, UCSD/SIO	Apr. 2016

Campaign GPS survey across central Taiwan, PI: SB. Yu, Academia Sinica	Dec. 2011
Seismic survey, Salton Seismic Imaging Project (SSIP), PI: J. Stock, Caltech	Mar. 2011

PROFESSIONAL SERVICE

University of Oklahoma (OU)/Mewbourne College of Earth and Energy (MCEE)/School of Geosciences(SOG)		
Faculty Liaison, AGU Bridge Program	2022-present	
Member, MCEE Diversity, Equity, Inclusion Council	2021-present	
Institutional Representative (Secondary), EarthScope Consortium	2022-present	
Institutional Representative, Southern California Earthquake Center (SCEC)	2022-present	
Institutional Representative, Computational Infrastructure for Geodynamics (CIG)	2022-present	
Institutional Representative, UNAVCO WInSAR	2021-present	
Member, OU Data Institute for Societal Challenges (DISC)	2021-present	
Member, OU Reflection Seismology Centennial Committee	2021-present	
Member, SOG Student Awards Committee	2021-present	
Member, SOG Computer Lab 1010 Committee	2022-present	
Member, SOG Teaching Evaluation Committee	2021-present	
Member, SOG Graduate Admission & Affairs Committee	2020-present	
Member, SOG Computing Committee	2020-present	
Organizer, SOG Virtual Open House for Prospective Graduate Students	Fall 2021	
Member and DEI Advocate, SOG Environmental Geophysics Search Committee	Spring 2021	
Member, SOG Petroleum Geosciences Vision Committee	Fall 2020	
Editor, SOG Application to AGU Bridge Program Partnership	Fall 2020	
Cornell University, Department of Earth and Atmospheric Sciences		
Founding Member, Inclusion, Diversity, and Equity in Earth and Atmospheric Sciences (IDEEAS)	2019-2020	
Awardee, Postdoctoral Leadership Program, Cornell University	2018-2019	
Professional and Synergistic Activities		
Reviewer for proposals: NSF (ad hoc & panel), DFG (Deutsche Forschungsgemeinschaft; ad hoc), NASA USGS (panel).	(panel), and	
Reviewer for journals: Geophysical Research Letters (4), Journal of Geophysical Research - Solid Earth (1 Journal International (6), Earth and Planetary Science Letters (1), Scientific Reports (1), Bulletin of Society of America (1), Seismological Research Letters (2), Earth Planets and Space (2), Earth and Spure and Applied Geophysics (8), Tectonophysics (2), Remote Sensing (22), Geosciences (2), Energia (3), Earthquake Science (1), Applied Sciences (5), etc.	the Seismological pace Science (1),	
Chair, "State-of-the-Art Observations and Modeling of Earthquake Source Processes" Oral Sessions at AC Meeting, New Orleans, LO	GU Annual Fall Dec. 2021	
Co-Leader, Community Code Verification Initiative for Numerical Simulations of SEAS (Sequences of Eastern California Earthquake Center (SCEC)	arthquakes and 2017–present	
Mentor, Asian Americans and Pacific Islanders in Geosciences (AAPIiG) Mentoring Pod Program	2022/03-08	
Liaison/Judge, Outstanding Student Paper Award (OSPA) of AGU Annual Meeting	2017-2021	
Organizer, Geophysics Seminar, IGPP/SIO/UCSD	2016-2018	
Organizer, Dix Seismological Laboratory Seminar, Caltech	2011-2012	
Event Organizer and Speaker, International Student Programs & Center for Diversity, Caltech	2011-2015	
Member, Board of Directors, Graduate Student Council, Caltech	2011-2014	

• Option Representative for Geophysics (2011–2013); Under-Represented Student Advocate (2011–2013); Treasurer (2012–2013); Director at Large (2013–2014)

Executive Committee, Chinese Students and Scholars Association, Caltech

2010-2012

• Director for Sports and Outdoor Activities (2010–2011); President (2011–2012)

EDUCATION OUTREACH

Geoscience Day, University of Oklahoma, Norman, OK	2022/03
Seminar speaker, Science Museum Oklahoma, Oklahoma City, OK	2021/07
Seminar speaker, Birch Aquarium, Scripps Institution of Oceanography, UCSD	2016-2017
Tour leader for K-12 students, Tectonic Observatory & Seismological Laboratory, Caltech	2010-2015
Invited speaker, Huntington Middle School, San Marino, CA	2011–2012
Teaching assistant and speaker, Blair High School, Pasadena, CA	2010-2011

PROFESSIONAL SOCIETY MEMBERSHIP

Southern California Earthquake Center (SCEC)	2009-present
American Geophysical Union (AGU)	2009-present
Seismological Society of America (SSA)	2012-present
American Association for the Advancement of Science (AAAS)	2012-present
Society of Exploration Geophysics (SEG)	2020-present
Geothermal Research Council (GRC)	2020-present
National Association of Geoscience Teachers (NAGT)	2020-present
Asian Americans and Pacific Islanders in Geosciences (AAPIiG)	2020-present
National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP)	2021-present