

Curriculum Vitae

Junle Jiang

November 2021

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RESEARCH INTERESTS

I am interested in the dynamic processes in the 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. My current research is focused on microseismicity, large earthquakes, and crustal deformation due to tectonic and human activities over timescales from seconds to centuries, through integrating laboratory-based physical models and geophysical observations, in particular from Global Navigation Satellite System (GNSS) and Interferometric Synthetic Aperture Radar (InSAR).

EDUCATION

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

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

REFEREED PUBLICATIONS

- Jiang, J.**, Y. Bock, and E. Klein (2021), Coevolving early afterslip and aftershock signatures of a San Andreas fault rupture, *Science Advances*, 7, [doi:10.1126/sciadv.abc1606](https://doi.org/10.1126/sciadv.abc1606). Media Coverage: [OU News](#).
- 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](https://doi.org/10.1016/j.rse.2020.112160).
- Erickson, B.*, **J. Jiang***, M. Barall, N. Lapusta, E. M. Dunham, R. Harris, L. Abrahams, K. Allison, J.-P. Ampuero, S. Barbot, C. Cattania, A. Elbanna, Y. Fialko, B. Idini, J. Kozdon, V. Lambert, Y. Liu, Y. Luo, X. Ma, P. Segall, P. Shi, and M. Wei, The community code verification exercise for simulating sequences of earthquakes and aseismic slip (SEAS), *Seismo. Res. Lett.* (*equal contributions). [doi:10.1785/0220190248](https://doi.org/10.1785/0220190248).
- Tymofeyeva, E., Fialko, Y., **Jiang, J.**, Xu, X., Sandwell, D., Bilham, R., et al (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](https://doi.org/10.1029/2018JB016765). Media Coverage: [EOS Research Spotlight](#).
- Xu, X., L. Ward, **J. Jiang**, B. Smith-Konter, E. Tymofeyeva, E. Lindsey, A. G. Sylvester, and D. T. Sandwell (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](https://doi.org/10.1029/2018GL080137).
6. Gombert, B., Z. Duputel, R. Jolivet, M. Simons, **J. Jiang**, C. Liang, E. J. Fielding, and L. Rivera (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](https://doi.org/10.1016/j.epsl.2018.06.046).
 7. Fan, W., D. Bassett, **J. Jiang**, P. M. Shearer, and C. Ji (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](https://doi.org/10.1016/j.tecto.2017.10.003).
 8. Michel, S., J.-P. Avouac, N. Lapusta, and **J. Jiang** (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](https://doi.org/10.1002/2017GL074725).
 9. **Jiang, J.** and N. Lapusta (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](https://doi.org/10.1002/2017JB014030).
 10. Yue, H., M. Simons, Z. Duputel, **J. Jiang**, E. Fielding, C. Liang, S. Owen, A. Moore, B. Riel, J. P. Ampuero and S.V. Samsonov (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](https://doi.org/10.1016/j.tecto.2016.07.005).
 11. **Jiang, J.** and M. Simons (2016), Probabilistic imaging of tsunamigenic seafloor deformation during the 2011 Tohoku-oki Earthquake, *J. Geophys. Res. Solid Earth*, 121, 9050–9076, [doi:10.1002/2016JB013760](https://doi.org/10.1002/2016JB013760). Media Coverage: [EOS Research Spotlight](#).
 12. **Jiang, J.** and Y. Fialko (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](https://doi.org/10.1002/2016GL071113).
 13. Bletery, Q., A. Sladen, **J. Jiang**, and M. Simons (2016), A Bayesian source model for the 2004 great Sumatra–Andaman earthquake, *J. Geophys. Res. Solid Earth*, 121, 5116–5135, [doi:10.1002/2016JB012911](https://doi.org/10.1002/2016JB012911).
 14. **Jiang, J.** and N. Lapusta (2016), Deeper penetration of large earthquakes on seismically quiescent faults, *Science*, 352(6291), 1293–1297, [doi:10.1126/science.aaf1496](https://doi.org/10.1126/science.aaf1496). Media Coverage: [New Yorker](#), [Phys.org](#).
 15. Duputel, Z., **J. Jiang**, R. Jolivet, M. Simons, L. Rivera, J.-P. Ampuero, B. Riel, S. E. Owen, A. W. Moore, S. V. Samsonov, F. O. Culaciati, and S. E. Minson (2015), The Iquique earthquake sequence of April 2014: Bayesian modeling accounting for prediction uncertainty, *Geophys. Res. Lett.*, 42, 7949–7957, [doi:10.1002/2015GL065402](https://doi.org/10.1002/2015GL065402).
 16. Bletery, Q., A. Sladen, B. Delouis, M. Vallée, J.-M. Nocquet, L. Rolland, and **J. Jiang** (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](https://doi.org/10.1002/2014JB011261).
 17. Minson, S. E., M. Simons, J. L. Beck, F. Ortega, **J. Jiang**, S. E. Owen, A. W. Moore, A. Inbal, and A. Sladen (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](https://doi.org/10.1093/gji/ggu170).
 18. Wei, S., R. Graves, D. V. Helmberger, J.-P. Avouac, and **J. Jiang** (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](https://doi.org/10.1016/j.epsl.2012.04.006).
 19. Simons, M., S. E. Minson, A. Sladen, F. Ortega, **J. Jiang**, S. E. Owen, L. Meng, J. P. Ampuero, S. Wei, R. Chu, D. V. Helmberger, H. Kanamori, E. Hetland, A. W. Moore, and F. H. Webb (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](https://doi.org/10.1126/science.1206731).

PUBLICATIONS IN REVISION/REVIEW/PREPARATION

1. Materna, K., A. Barbour, **J. Jiang**, and M. Eneva, Detection of aseismic slip and poroelastic reservoir deformation at the North Brawley Geothermal Field from 2009–2019, under review at JGR.
2. **Jiang, J.**, B. Erickson, V. Lambert, J.-P. Ampuero, R. Ando, S. Barbot, C. Cattania, L. Dal Zilio, B. Duan, E. Dunham, A.-A. Gabriel, N. Lapusta, D. Li, M. Li, D. Liu, D. Liu, Y. Liu, S. Ozawa, C. Pranger, Y. van Dinther,

- Community-driven code comparisons for three-dimensional dynamic modeling of sequences of earthquakes and aseismic slip (SEAS), under review at JGR. Preprint: [doi:10.1002/essoar.10508582.1](https://doi.org/10.1002/essoar.10508582.1).
3. Erickson, B. A., **Jiang, J.**, 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., Lambert, V. R., 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., Community Code Verification Exercises for Simulations of Earthquake Sequences and Aseismic Slip (SEAS): Dynamic Effects and Dipping Fault Geometries, in preparation for SRL.
 4. **Jiang, J.** and N. Lapusta, Persistent earthquake rupture characteristics and stress redistribution on faults with heterogeneous strength, in preparation for JGR.
 5. **Jiang, J.** and N. Lapusta, Influence of depth-dependent fault permeability and shear zone width on earthquake size-length scaling and sequence dynamics, in preparation for EPSL.
 6. **Jiang, J.** Simons, M., and H. Fattahi, Multiscale imaging of seismic and aseismic processes on subduction zone megathrusts: Application to the 2010 Maule, Chile, earthquake, in prep.
 7. **Jiang, J.** and Y. Fialko, Mechanisms of slow slip and seismic potential of shallow crustal faults, in prep.
 8. **Jiang, J.**, F. Hofmann, and J. L. Kirschvink, Emergence of molluscan grazing notches in uplifted coral atolls at Palau: Potential paleoseismic or paleoclimatic markers? in prep.

INVITED TALK

Earthquake Physics Seminar, University of Southern California	2021/11
Berkeley Seismology Laboratory, UC Berkeley	2021/10
Department of Geosciences, University of Tulsa	2021/09
Earthquake Science Center Seminar, USGS	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
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.**, Bock, Y., and E. Klein, Dynamics of early afterslip-aftershock coevolution following the 2004 Parkfield earthquake, SSA Annual Meeting, Apr. 2021 (Oral Presentation).
2. 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).
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 Y. Fialko, Mechanisms of unsteady shallow creep on major crustal faults, AGU Fall Meeting, New Orleans, LA, Dec. 2017 (Oral Presentation).
8. **Jiang, J.** and M. Simons, 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 **J. Jiang**, 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 H. Noda, 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), **\$27K** 2020/02–2022/01
- PI**, “Integrated Simulation of Dynamic Earthquakes and Crustal Deformation,” Extreme Science and Engineering Discovery Environment (XSEDE), **120K computing units** 2017/09–2021/06
- PI** (w/ B. Erickson), “Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS),” Southern California Earthquake Center (SCEC), **\$45K/\$50K/\$56K/56K** in each year 2018/02–2022/01
- Co-PI** (PI: Y. Fialko), “Mechanisms of unsteady shallow creep on major crustal faults,” Southern California Earthquake Center (SCEC), **\$28K** 2018/02–2019/01
- Co-PI** (PI: Y. Fialko), “Microseismicity, geodetic coupling, and earthquake variability on heterogeneous faults: A case study of the Anza section of the San Jacinto Fault,” SCEC, **\$28K** 2017/02–2018/01
- Co-PI** (PI: Y. Fialko), “Reconciling seismic and geodetic locking depths on the Anza segment of the San Jacinto Fault,” SCEC, **\$28K** 2016/02–2017/01

Pending Research Grants

- Co-PI** (PI: N. Regmi), “Monitoring Hillslope Dynamics Using SAR Time Series and Machine Learning,” National Aeronautics and Space Administration (NASA), **~\$280K** 2022/01–2024/12
- PI**, “Numerical modeling of dynamic fracture and deformation in dissimilar fault rocks,” American Chemical Society Petroleum Research Fund, **\$110K** 2022/09–2024/08
- PI**, “Seismic potential and early postseismic dynamics of deep fault zones in California,” National Science Foundation (NSF) - Geophysics Program, **\$300K** 2022/05–2025/04
- PI**, “Geodetic imaging of decadal activities of earthquakes, fault creep, and coastal changes at the southern Salton Sea,” SCEC, **\$27K** 2022/02–2023/01
- PI** (w/ B. Erickson, V. Lambert), “Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS),” SCEC, **\$56K** 2022/02–2023/01

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**, [workshop 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**, [workshop 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**, [workshop 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**, [workshop 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**, [workshop 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

GPHY2013 Frontiers of Geophysics	Spring 2022
GPHY4553 Introduction to Seismology	Spring 2022
GPHY5970 Geophysical Journal Seminar	Fall 2021
GPHY6970 Machine Learning in Geosciences (w/ H. Bedle & M. Pranter; 15 students)	Fall 2021
GPHY5970 Remote Sensing for Crustal Geophysics (8 students) (new course)	Fall 2021
GPHY5920 Computational Geophysics (5 students) (new course)	Spring 2021
GPHY3440 Mentored Research Experience (1 student)	Spring 2021
GEOL1114 Physical Geology for Scientists and Engineers (37 students)	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
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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 Advisor

Segun Steven Bodunde (OU Ph.D. student): Modeling transient deformation, fluids & seismicity	2021/08–present
Haoyu Li (OU M.S. student): Imaging post-rupture fault zone properties	2021/08–present
Ganiyat Shodunke (OU Ph.D. student): Geothermal reservoir structure and deformation	2021/01–present

Thesis Committee Member

Jiewen Zhang (OU Ph.D. student)	2020/10–2021/06
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Research Mentor

Gillian Quiros (UCSD Regents Scholar): Modeling nonlinear dynamical systems	2017/09–2018/05
Xander Zheng (Caltech SURF student) (w/ M. Simons): InSAR analysis of LA basin aquifers	Summer 2012
Patrick Ferchaud (École Polytechnique exchange student)(w/ N. Lapusta): BEM modeling	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: S.-B. Yu, Academia Sinica	Dec. 2011
Seismic survey, Salton Seismic Imaging Project (SSIP), PI: J. Stock, Caltech	Mar. 2011

PROFESSIONAL SERVICE

Reviewer for proposals: NSF (ad hoc & panel), DFG (Deutsche Forschungsgemeinschaft; ad hoc), NASA (panel), and USGS (panel).

Reviewer for journals: *Geophysical Research Letters* (1), *Journal of Geophysical Research - Solid Earth* (12), *Geophysical Journal International* (6), *Earth and Planetary Science Letters* (1), *Bulletin of the Seismological Society of America* (1), *Seismological Research Letters* (2), *Earth Planets and Space* (2), *Earth and Space Science* (1), *Pure and Applied Geophysics* (8), *Tectonophysics* (2), *Remote Sensing* (22), *Geosciences* (2), *Energies* (8), *Sensors* (3), *Earthquake Science* (1), *Engineering Computation* (1), *Applied Sciences* (5), etc.

University of Oklahoma (OU)/Mewbourne College of Earth and Energy (MCEE)/School of Geosciences(SOG)

Member, OU Data Institute for Societal Challenges (DISC)	2021–present
Member, OU Reflection Seismology Centennial Committee	2021–present
Member, MCEE Diversity, Equity, Inclusion (DEI) Council	2021–present
Member, SOG Student Awards Committee	2021–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

Co-Leader, Community Code Verification Initiative for Numerical Simulations of SEAS (Sequences of Earthquakes and Aseismic Slip), Southern California Earthquake Center (SCEC)	2017–present
Institutional representative, UNAVCO WInSAR	2021–present
Liaison/Judge, Outstanding Student Paper Award (OSPA) of AGU Annual Meeting	2017–2020
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

- Seminar speaker, Science Museum Oklahoma, Oklahoma City, OK 2021
- 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