*Curriculum Vitae* October 2022

# Junle Jiang

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School of Geosciences, Mewbourne College of Earth and Energy
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## RESEARCH INTERESTS

I am interested in studying the multi-scale dynamics of Earth's crustal processes and understanding 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

| | | |
|---|---|---|
| 2016 | **Ph.D.**, Geophysics | California Institute of Technology, USA |
| 2014 | **Ph.D. Minor**, Computational Science and Engineering | California Institute of Technology, USA |
| 2011 | **M.Sc.**, Geophysics | California Institute of Technology, USA |
| 2009 | **B.Sc.**, Physics | Peking University, China |

## APPOINTMENTS

| | |
|---|---|
| 2020/08–current | **Assistant Professor**, School of Geosciences, University of Oklahoma |
| 2018/06–2020/07 | **Postdoctoral Associate**, Department of Earth and Atmospheric Sciences, Cornell University |
| 2016/02–2018/05 | **Green Postdoctoral Scholar**, Scripps Institution of Oceanography, University California San Diego |
| 2009/09–2015/12 | **Research and Teaching Assistant**, Seismological Laboratory, California Institute of Technology |

## 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

### First- to Third-Authored 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.

2. **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 Coverage: 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 Coverage: OU News.

4. **Jiang, J.**, and 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 Coverage: 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. **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.
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. **Jiang, J.** and Simons, M. (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. Media Coverage: EOS Research Spotlight.
11. **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.
12. **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 Coverage: New Yorker, Phys.org.
13. 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.
14. 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.

## Other Co-Authored Publications

15. 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.
16. 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.
17. 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.
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. doi: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. doi: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. doi: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. doi:10.5281/zenodo.3911193.
5. **Jiang, J.** and Simons, M. (2016). Data and Models for “Probabilistic imaging of tsunamigenic seafloor deformation during the 2011 Tohoku-oki Earthquake” [Data set]. In *J. Geophys. Res. Solid Earth*. Zenodo. doi:10.5281/zenodo.6896262

## WHITE PAPERS

Lapusta, N., et al. (including **J. Jiang**), 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. **Jiang, J.** and Lapusta, N., Long-term properties of dynamic rupture and stress redistribution on faults with heterogeneous strength, in prep. for *Geophys. J. Int.*
3. **Jiang, J.** and Lapusta, N., The influence of depth-dependent fault rock permeability and shear zone width on large earthquake rupture, arrest, and recurrence, in prep. for *Tectonophysics*.
4. **Jiang, J.**, Ragon, T., Liang, C., and Simons, M., Bayesian inference of megathrust faulting during and after the 2010 Maule earthquake: 1. Quantifying uncertainty, resolution, and information content in multi-dataset inversions, in prep.
5. **Jiang, J.** , Ragon, T., Liang, C., and Simons, M., Bayesian inference of megathrust faulting during and after the 2010 Maule earthquake: 2. Characterizing source processes in three-dimensional subduction zone structure, in prep.
6. Caballero, E., Duputel, Z., Twardzik, C., Klein, E., Aochi, H., **Jiang, J.**, Liang, C., Zhu, L., Jolivet, R., Fielding, E., Simons, M., Revisiting the 2015 Mw=8.3 Illapel earthquake: From kinematic rupture inversion to rupture dynamics, in prep.

## INVITED TALKS

| | |
|---|---|
| 2022/12 | AGU Fall Meeting, Chicago, CA |
| 2022/11 | The Center for Earthquake Research and Information, University of Memphis, Memphis, TN |
| 2022/08 | School of Earth Sciences Summer School, Zhejiang University, China (Online) |
| 2022/06 | SAGE/GAGE Community Science Workshop, Pittsburgh, PA |
| 2022/01 | Department of Geosciences Seminar, University of Montana, MT (Online) |
| 2021/11 | Earthquake Physics Seminar, University of Southern California, CA (Online) |
| 2021/10 | Berkeley Seismology Laboratory Seminar, University of California Berkeley, CA (Online) |
| 2021/09 | GeoSeminar, Department of Geosciences, University of Tulsa, OK (Online) |
| 2021/07 | Earthquake Science Center Seminar, United States Geological Survey, CA (Online) |
| 2020/03 | Shell Colloquium, School of Geosciences, University of Oklahoma, Norman, OK |
| 2019/09 | Andes Seminar, Department of Earth and Atmospheric Sciences, Cornell University, Ithaca, NY |
| 2019/06 | SCEC Workshop about Physics-Based Earthquake Simulators, Menlo Park, CA |
| 2019/03 | Dept. Earth, Atmospheric & Planetary Sciences, Massachusetts Institute of Technology, Cambridge, MA |
| 2018/09 | Keynote Talk, Southern California Earthquake Center Annual Meeting, Palm Springs, CA |
| 2018/03 | Department of Geology and Geophysics, Woods Hole Oceanographic Institution, Falmouth, MA |
| 2017/04 | SSA Fall Meeting, Denver, CO |
| 2017/03 | Department of Earth, Planetary, and Space Sciences, University of California Los Angeles, CA |
| 2016/03 | Geophysics Seminar, Scripps Institution of Oceanography, University of California San Diego, CA |
| 2013/12 | AGU Fall Meeting, San Francisco, CA |

## HONORS AND AWARDS

| | |
|---|---|
| 2016–2018 | **Green Postdoctoral Fellowship**, Institute of Geophysics and Planetary Physics, Scripps Institution of Oceanography, University California San Diego |
| 2016 | **Graduate Student Office Leadership Award**, California Institute of Technology |
| 2016 | **Demetriades-Tsafka-Kokkalis Best Thesis Prize in Seismo-Engineering, Prediction, and Protection**, California Institute of Technology |
| 2015 | **Chinese Government Award for Outstanding Self-Financed Students Abroad** |
| 2015 | **Outstanding Student Paper Award**, Tectonophysics Section, American Geophysical Union |
| 2009 | **Honor for Excellent Graduate**, Peking University |
| 2007 | **Petro China Scholarship,** Peking University |
| 2007 | **Dean's List Award for Academic Excellence**, Hong Kong University of Science and Technology |
| 2006 | **Cannon Scholarship**, Peking University |

### Students' Awards/Scholarship

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|---|---|
| 2022 | **Segun Bodunde, Charles C. McBurney Memorial Scholarship** by Society of Exploration Geophysics |
| 2021 | **Ganiyat Shodunke, On To the Future Scholarship** by Geological Society of America |

## FUNDED RESEARCH AND WORKSHOPS

**SCEC**: Southern California Earthquake Center; **NASA**: National Aeronautics and Space Administration; **NSF**: National Science Foundation; **USGS**: United States Geological Survey.

### Current Research Grants

2022/08–2025/07 **NSF Geophysics, PI**, Constraining Rupture and Relaxation Dynamics of Crustal Fault Roots with Geodetic and Microseismic Observations, $306,000

2022/01–2024/12 **NASA Earth Surface & Interior, Co-PI** (PI: N. Regmi; Co-PIs: J. Walter & N. Hayman), Monitoring Hillslope Dynamics Using SAR Time Series and Machine Learning, $279,991

2022/02–2023/03 **SCEC, PI**, Geodetic Imaging of Earthquakes, Fault Creep, Deformation, and Coastal Changes at the Southern Salton Sea Over Two Decades, $26,000

2022/02–2023/03 **SCEC, PI** (w/ PIs: B. Erickson & V. Lambert), Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS), $56,000 (Total)

### Past Research Grants

2020/02–2022/01 **SCEC**, **PI**, Distinguishing Between Tectonic and Anthropogenic Processes in the Salton Sea Geothermal Field, $27,000

2018/02–2022/01 **SCEC, PI** (w/ B. Erickson), Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS), $45,000/$50,000/$56,000/$56,000 (Total) in each year

2018/02–2019/01 **SCEC, Co-PI** (PI: Y. Fialko), Mechanisms of Unsteady Shallow Creep on Major Crustal Faults, $28,000

2017/02–2018/01 **SCEC, 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, $28,000

2017/09–2021/06 **Extreme Science and Engineering Discovery Environment (XSEDE)**, **PI,** Integrated Simulation of Dynamic Earthquakes and Crustal Deformation, 120K computing units

2016/02–2017/01 **SCEC, Co-PI** (PI: Y. Fialko), Reconciling Seismic and Geodetic Locking Depths on the Anza Segment of the San Jacinto Fault, $28,000

### Workshop Grants

2021/11/02 **SCEC, PI (w/ B. Erickson, V. Lambert)**. Workshop for Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS) — Fluids, 3D modeling, and Future Directions". Website.

2020/10/30 **SCEC, PI (w/ B. Erickson)**. Workshop for Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS) — Free-Surface effects in 2D/3D models. Website.

2020/01/09 **SCEC, PI (w/ B. Erickson)**. Workshop for Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS) — Full Dynamics and 3D Effects. Website.

2018/11/29 **SCEC, PI (w/ B. Erickson)**. Workshop for Advancing Simulations of Sequences of Earthquakes and Aseismic Slip (SEAS) — Exploring Complexity and Resolution. Website.

2018/04/23 **SCEC, PI (w/ R. Harris, B. Erickson)**. A Joint Workshop: Rupture Dynamics Code Validation and Comparing Simulations of Earthquake Sequences and Aseismic Slip. Website.

## TEACHING EXPERIENCE

**UG**: Undergraduate Students. **G**: Graduate Students; **I**: Instructor; **CH**: Credit Hour.

### Sole Instructor, University of Oklahoma

2020F/2022S GEOL1114 Physical Geology for Scientists and Engineers [**UG; 4 CH**]

2023S GPHY3013 Data Analysis in Geosciences [**UG; 3 CH**]

2022F GPHY5413 Global Geophysics [**UG/G; 3 CH**]

2022S GPHY4553 Introduction to Seismology [**UG/G; 3 CH**]

2021F GPHY5970 Remote Sensing for Crustal Geophysics [**G; 3 CH**]

2021S/2023S GPHY5920 Computational Geophysics [**G; 3 CH**]

2021S/2022Su GPHY3440 Mentored Research Experience [**UG; 3 CH**]

2021F/2022S/F GPHY5970 Geophysical Journal Seminar [**G; 1 CH**]

### Co-Instructor, University of Oklahoma

2023S GPHY2013 Frontiers in Geophysics [**UG; 3 CH**] (w/ S. Saneiyan, H. Bedle, J. Walter, & J. Pigott)

2021F GPHY6970 Machine Learning in Geosciences Seminar [**UG/G; 1 CH**] (w/ H. Bedle & M. Pranter)

### Guest Lecturer, University of Oklahoma

2022F GEOL5001 Topics in Geosciences Seminar for First-Year Graduate Students [**G; 1 CH**] (**I:** L. Soreghan)

### Guest Lecturer, Cornell University

2019S/2020S EAS2550 Satellite-Based Remote Sensing [**UG**] (**I:** Rowena Lohman)

2019S EAS7800 Earthquake Record Reading [**G**] (**I:** Geoffrey Abers)

2020S Teaching & Learning in the Diverse Classroom Course

### Guest Lecturer, Scripps Institution of Oceanography

2017S/2018S SIOG237 Space Geodesy [**G**] (**I:** Yuri Fialko & David Sandwell)

### Graduate Teaching Assistant, California Institute of Technology

2014S Ge11d/102 Introduction to Geophysics [**UG**] (**I:** Robert Clayton & Mike Gurnis)

2012F Ge263 Computational Geophysics [**G**] (**I:** Jean-Paul Ampuero, Robert Clayton & Mike Gurnis)

2011F Ge161 Plate Tectonics [**G**] (**I:** Joann Stock)

2011S Ae/ME/Ge266 Dynamic Rupture and Frictional Faulting [**G**] ((**I:** Nadia Lapusta)

## STUDENT ADVISING/MENTORING

### Thesis/Dissertation/Research Advisor

2021/08–current Segun Steven Bodunde (PhD)

2021/08–current Haoyu Li (MS)

2021/01–current Ganiyat Shodunke (PhD)

2022/01–current Alex Vera Arroyo (“2nd project” PhD, advised by Dr. H. Bedle)

### Thesis/Dissertation Committee Member

2022/02–current Rachel Neher (PhD)

2022/09–current Raymond Ng (PhD)

2022/08–current Deepankar Dangwal (PhD; Committee Chair)

2020/10–2021/06 Jiewen Zhang (PhD)

### Undergraduate/Graduate Research Mentor

2022/05–08 Calvin Rutkauskas (OU; BS in Geography & Minor in Geology): SAR analysis of land disturbance

2017/09–2018/05 Gillian Quiros (UCSD; BS in Mathematics): Modeling nonlinear spring-slider system dynamics

2012 Summer Xander Zheng (Caltech; BS in Computing and Mathematical Sciences): InSAR analysis of LA aquifers

2011 Summer Patrick Ferchaud (École Polytechnique; MS in Geophysics): BEM modeling

## FIELD EXPERIENCE

2016–2018 Sept. Campaign GPS survey for the San Jacinto fault, Anza, CA, PI: Y. Fialko, UCSD/SIO

2017 Mar. Rock sample collection and structure mapping of rock islands, Palau, PI: J. Kirschvink, Caltech

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|---|---|
| 2016 Apr. | Seismic deployment at Anza, California, PI: F. Vernon, UCSD/SIO |
| 2011 Dec. | Campaign GPS survey across central Taiwan, PI: S.-B. Yu, Academia Sinica |
| 2011 Mar. | Seismic survey, Salton Seismic Imaging Project (SSIP), PI: J. Stock, Caltech |

## PROFESSIONAL SERVICE

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

| | |
|---|---|
| 2022–current | Faculty Liaison, AGU Bridge Program |
| 2022–current | Institutional Representative (Secondary), EarthScope Consortium |
| 2022–current | Institutional Representative, Southern California Earthquake Center (SCEC) |
| 2022–current | Institutional Representative, Computational Infrastructure for Geodynamics (CIG) |
| 2021–current | Institutional Representative, UNAVCO WInSAR |
| 2021–current | Member, MCEE Diversity, Equity, Inclusion Council |
| 2021–current | Member, OU Data Institute for Societal Challenges (DISC) |
| 2021–current | Member, OU Reflection Seismology Centennial Committee |
| 2021–current | Member, SOG Student Awards Committee |
| 2020–current | Member, SOG Graduate Admission & Affairs Committee |
| 2020–current | Member, SOG Computer Lab Committee |
| 2021–2022 | Member, SOG Teaching Evaluation Committee |
| 2021F, 2022F | Organizer, SOG Virtual Open House for Prospective Graduate Students |
| 2020–2021 | Member and DEI Advocate, SOG Environmental Geophysics Search Committee |
| 2020F | Member, SOG Petroleum Geosciences Vision Committee |
| 2020F | Editor, SOG Application to AGU Bridge Program Partnership |

### Cornell University, Department of Earth and Atmospheric Sciences

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|---|---|
| 2019–2020 | Founding Member, Inclusion, Diversity, and Equity in Earth and Atmospheric Sciences (IDEEAS) |
| 2018–2019 | Awardee, Postdoctoral Leadership Program, Cornell University |

### Other Professional and Synergistic Activities

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|---|---|
| Proposal Reviewer | NSF (ad hoc & panel), NASA ESI (panel), USGS Earthquake Hazards Program (panel), DFG (German Research Foundation; ad hoc), NWO (Dutch Research Council; ad hoc). |
| Journal Reviewer | Geophysical Research Letters (4), Journal of Geophysical Research - Solid Earth (16), Geophysical Journal International (7), Earth and Planetary Science Letters (1), Scientific Reports (1), Bulletin of the Seismological Society of America (3), Seismological Research Letters (5), 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), Applied Sciences (5), etc. |
| 2017–current | Co-Leader, Community Code Verification Initiative for Numerical Simulations of SEAS (Sequences of Earthquakes and Aseismic Slip), Southern California Earthquake Center (SCEC) |
| 2017–2022 | Liaison/Judge, Outstanding Student Paper Award (OSPA) of AGU Annual Meeting |
| 2022/09 | Panel Organizer/Moderator, 2022 Southern California Earthquake Center Annual Meeting |
| 2022/03–09 | Mentor, Asian Americans and Pacific Islanders in Geosciences (AAPIiG) Mentoring Pod Program |
| 2021/12 | Chair, "State-of-the-Art Observations and Modeling of Earthquake Source Processes" Oral Sessions at AGU Annual Fall Meeting, New Orleans, LO |
| 2016–2018 | Organizer, Geophysics Seminar, IGPP/SIO/UCSD |
| 2011–2012 | Organizer, Dix Seismological Laboratory Seminar, Caltech |

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|---|---|
| 2011–2015 | Event Organizer and Speaker, International Student Programs & Center for Diversity, Caltech |
| 2011–2014 | Member, Board of Directors, Graduate Student Council, Caltech |
| | Option Representative for Geophysics (2011–2013); Under-Represented Student Advocate (2011–2013); Treasurer (2012–2013); Director at Large (2013–2014) |
| 2010–2012 | Executive Committee, Chinese Students and Scholars Association, Caltech |
| | Director for Sports and Outdoor Activities (2010–2011); President (2011–2012) |

## EDUCATION OUTREACH

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

## PROFESSIONAL SOCIETY/COMMUNITY MEMBERSHIP

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|---|---|
| 2009–current | Southern California Earthquake Center (SCEC) |
| 2009–current | American Geophysical Union (AGU) |
| 2012–current | Seismological Society of America (SSA) |
| 2012–current | American Association for the Advancement of Science (AAAS) |
| 2020–current | Society of Exploration Geophysics (SEG) |
| 2020–current | Geothermal Research Council (GRC) |
| 2020–current | National Association of Geoscience Teachers (NAGT) |
| 2020–current | Asian Americans and Pacific Islanders in Geosciences (AAPIiG) |

## SELECTED CONFERENCE ABSTRACTS

***Advised Students are underlined**

1. **Jiang., J.**, Geodetic and Microseismic Signatures of Crustal Faulting Following Large Earthquakes, In *AGU Fall Meeting 2022.* (Invited Oral Presentation).
2. Bodunde, S., **Jiang, J.**, Characterizing Spatial Patterns and Timescales of Early Postseismic Deformation of Megathrust Earthquakes, In *AGU Fall Meeting 2022.*
3. Li, H., **Jiang, J.**, Comparing Ambient-Noise-Based Seismic Velocity Variations with Dynamic and Static Strain Changes Associated with Major Earthquake Rupture at Parkfield, In *AGU Fall Meeting 2022.*
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5. Lambert, V., **Jiang, J.**, Erickson, B., Abdelmeguid, M., Almquist, M., Ampuero, J.-P., Ando, R. Barbot, S., Bodunde, S. 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., Kim, T., 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., Community Code Verification Exercises for Simulations of Earthquake Sequences and Aseismic Slip (SEAS): From 3D, Full Elastodynamics and Dipping Faults to Fluids and Fault Friction Evolution, In *AGU Fall Meeting 2022.*
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