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EDUCATION

Hokkaido University, Japan	Geophysics	Ph.D. (2004)
Hokkaido University, Japan	Geophysics	M.S. (2001)
Yamagata University, Japan	Earth Science	B.S. (1999)

EMPLOYMENT

Current Position

2018-current Research Seismologist, Berkeley Seismological Laboratory, University of California, Berkeley
2017-current Affiliate Scientist, Lawrence Berkeley National Laboratory

Previous Positions

2008-2018 Assistant (2008-2014) and Associate (2014-2018) Research Seismologist, Berkeley Seismological Laboratory, University of California, Berkeley
2007-2008 Postdoctoral Fellow, Department of Geology and Geophysics, University of Utah
2006-2007 Postdoctoral Research Associate, Department of Terrestrial Magnetism, Carnegie Institution for Science
2004-2006 C.V. Starr Postdoctoral Fellow, Department of Terrestrial Magnetism, Carnegie Institution for Science
2004 Postdoctoral Fellow, Institute of Seismology and Volcanology, Hokkaido University, Japan
2001-2003 Teaching Assistant, Department of Natural History Sciences, Hokkaido University, Japan

RESEARCH INTERESTS

Observational seismology and geophysical instrumentation; Transient stress changes at seismogenic depth, subsurface hydrothermal fluid migration, source mechanism of fluid-induced earthquakes, developing seismic array methodologies, seismic imaging of crustal structure, seismic wave propagation.

HONORS AND AWARDS

2018 JSPS Bridge Award, Japan Society for the Promotion of Science Washington & San Francisco Offices
2016 Young Scientists' Prize, The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology (MEXT), Japan
2013 Best Young Scientist Poster Award, International Continental Scientific Drilling Program
2013 Visiting Fellowship, Earthquake Research Institute, University of Tokyo, Japan
2011 Research Award for Young Scientist, Seismological Society of Japan
2004 C.V. Starr Fellowship, Carnegie Institution of Science

PUBLICATIONS

Peer-reviewed:

1. Pandey, K., **T. Taira**, G. Dresen, T. H. Goebel (2023), Inferring damage state and evolution with increasing stress using direct and coda wave velocity measurements in faulted and intact granite samples, *Geophysical Journal International*, ggad390, doi:10.1093/gji/ggad390.
2. Romanowicz, B., R. Allen, K. Brekke, L.-W. Chen, Y. Gou, I. Henson, J. Marty, D. Neuhauser, B. Pardini, **T. Taira**, S. Thompson, J. Zhang, and S. Zuzlewski (2023), SeaFOAM: A year-long DAS deployment in Monterey Bay, California, *Seismol. Res. Lett.*, doi:10.1785/0220230047.
3. Cheng, Y., R. M. Allen, and **T. Taira** (2023), A new focal mechanism calculation algorithm (REFOC) using inter-event relative radiation patterns: Application to the earthquakes in the Parkfield area, *J. Geophys. Res.*, 128, e2022JB025006, doi:10.1029/2022JB025006.
4. Wang, K., D. S. Dreger, R. Bürgmann, and **T. Taira** (2023), Finite-source model of the 8 July 2021 M 6.0 Antelope Valley, California, earthquake, *Seismol. Res. Lett.*, doi:10.1785/0220220262.
5. Li, Y., R. Bürgmann, and T. Taira (2023), Spatiotemporal variations of surface deformation, shallow creep rate, and slip partitioning between the San Andreas and Southern Calaveras Fault, *J. Geophys. Res.*, 128, e2022JB025363, doi:10.1029/2022JB025363.
6. Sheng, Y., A. Mordret, F. Brenguier, P. Boué F. Vernon, T. Takeda, Y. Aoki, **T. Taira**, and Y. Ben-Zion (2023), Seeking repeating anthropogenic seismic sources: Implications for seismic velocity monitoring at fault zones, *J. Geophys. Res.*, 128, e2022JB024725, doi:10.1029/2022JB024725.
7. Ringler, A. T., R. E. Anthony, R. C. Aster, **T. Taira**, B. R. Shiro, D. C. Wilson, S. De Angelis, C. Ebeling, M. Haney, R. S. Matoza, and H. D. Ortiz (2022), The global seismographic network reveals atmospherically coupled normal modes excited by the 2022 Hunga Tonga eruption, *Geophysical Journal International*, ggac284, 10.1093/gji/ggac284.
8. Dominguez L. A., **T. Taira**, V. M. Cruz-Atienza, A. Iglesias, C. Villafuerte, D. Legrand, X. Pérez-Campos, and M. Raggi (2022), Interplate slip rate variation between closely spaced earthquakes in southern Mexico: The 2012 Ometepc and 2018 Pinotepa Nacional thrust events, *J. Geophys. Res.*, 127, e2022JB024292, doi:10.1029/2022JB024292.
9. **Taira, T.**, D. S. Dreger, and A. A. Allam (2022), Nodal seismic experiment at the Berkeley section of the Hayward fault, *Seismol. Res. Lett.*, doi.org/10.1785/0220210372.
10. Chet, H., **T. Taira**, M. Robertson, J. J. Farrugia, C. Layland-Bachmann, and E. Majer (2022), Low-noise optical accelerometers: Bridging the gaps among geophones, accelerometers, and broadbands in a deep borehole, *Seismol. Res. Lett.*, doi.org/10.1785/0220210340.
11. Tsuchiyama, A., **T. Taira**, J. Nakajima, and R. Bürgmann (2022), Emergence of low-frequency aftershocks of the 2019 Ridgecrest earthquake sequence, *Bull. Seis. Soc. Am.*, doi:10.1785/0120210206.
12. Plata-Martinez, R., S. Ide, M. Shinohara, E. S. Garcia, N. Mizuno, L. A. Dominguez, **T. Taira**, Y. Yamashita, A. Toh, T. Yamada, J. Real, A. Husker, V. M. Cruz-Atienza, and Y. Ito (2021), Shallow slow earthquakes to decipher future catastrophic earthquakes in the Guerrero seismic gap, *Nat. Commun.*, doi:10.1038/s41467-021-24210-9.
13. Lecocq, T. et al (76 authors) (2020), Global quieting of high-frequency seismic noise due to COVID-19 pandemic lockdown measures, *Science*, doi:10.1126/science.abd2438.
14. Wang, K., D. S. Dreger, E. Tinti, R. Bürgmann, and **T. Taira**, (2020), Rupture process of the 2019 Ridgecrest, California Mw 6.4 foreshock and Mw 7.1 earthquake constrained by seismic and geodetic data, *Bull. Seis. Soc. Am.*, doi:10.1785/0120200108.
15. Flinders, A. F., C. Caudron, I. A. Johanson, **T. Taira**, B. Shiro, and M. Haney (2020), Seismic

velocity variations associated with the 2018 lower East Rift Zone eruption of Kīlauea, Hawai‘i, *Bulletin of Volcanology*, 82: 47, doi:10.1007/s00445-020-01380-w.

16. Yoshida K, **T. Taira**, Y. Matsumoto, T. Saito, K. Emoto, and T. Matsuzawa (2020), Stress release process along an intraplate fault analogous to the plate boundary: A case study of the 2017 M5.2 Akita-Daisen earthquake, NE Japan, *J. Geophys. Res.*, 125, doi:10.1029/2020JB019527.
17. Fukushima, Y., M. Hashimoto, M. Miyazawa, N. Uchida, and **T. Taira** (2019), Surface creep rate distribution along the Philippine fault, Leyte Island, and possible repeating of Mw ~ 6.5 earthquakes on an isolated locked patch, *Earth, Planets and Space*, 71: 118, doi:10.1186/s40623-019-1096-5.
18. Maurya, S., **T. Taira**, and B. Romanowicz (2019), Location of seismic "hum" sources following storms in the north Pacific ocean, *Geochemistry, Geophysics, Geosystems*, doi:10.1029/2018GC008112.
19. Yang, C., F. Niu, T. M. Daley, and **T. Taira** (2019), Continuous measurement of stress-induced traveltimes variations at SAFOD, *Seismol. Res. Lett.*, 90, 212–218, doi:10.1785/0220180080.
20. Prudencio, J., M. Manga, and **T. Taira** (2018), Subsurface structure of Long Valley caldera imaged with seismic scattering and intrinsic attenuation, *J. Geophys. Res.*, 123, 5978–5999, doi:10.1029/2017JB014986.
21. Smit, P. B., T. T. Janssen, T. H. C. Herbers, **T. Taira**, and B. A. Romanowicz (2018), Infragravity wave radiation across the shelf break, *J. Geophys. Res. Oceans*, 122, doi:10.1029/2018JC013986.
22. Xue, L., R. Bürgmann, D. R. Shelly, C. W. Johnson, and **T. Taira** (2018), Kinematics of the 2015 San Ramon, California earthquake swarm: Implications for fault zone structure and driving mechanisms, *Earth Planet. Sci. Lett.*, 489, 135–144, doi:10.1016/j.epsl.2018.02.018.
23. Materna, K., **T. Taira**, and R. Bürgmann (2018), Aseismic transform fault slip at the Mendocino Triple Junction from characteristically repeating earthquakes, *Geophys. Res. Lett.*, 45, doi:10.1002/2017GL075899.
24. **Taira, T.**, A. Nayak, F. Brenguier, and M. Manga (2018), Monitoring reservoir response to earthquakes and fluid extraction, Salton Sea geothermal field, California, *Sci. Adv.*, 4, e1701536, doi:10.1126/sciadv.1701536.
25. Nayak, A., **T. Taira**, D. S. Dreger, and R. Gritto (2018), Empirical Green's tensor retrieved from ambient noise cross-correlations at the Geysers Geothermal Field, northern California, *Geophys. J. Int.*, 213, 340–369, doi:10.1093/gji/ggx534.
26. Chen, C.-W., H.-F. Huang, S. Hautmann, I. S. Sacks, A. T. Linde, and **T. Taira** (2018), Resonance oscillations of the Soufrière Hills Volcano (Montserrat, W.I.) magmatic system induced by forced magma flow from the reservoir into the upper plumbing dike, *J. Volcano. Geotherm. Res.*, 350, 7–17, doi:10.1016/j.jvolgeores.2017.11.020.
27. Prudencio, J., **T. Taira**, Y. Aoki, H. Aoyama, and S. Onizawa (2017), Intrinsic and scattering attenuation images of Usu volcano, Japan, *Bulletin of Volcanology*, 79: 29, doi:10.1007/s00445-017-1117-9.
28. Dominguez, L. A., **T. Taira**, and M. A. Santoyo (2016), Spatio-temporal variations of characteristic repeating earthquakes sequence along the Middle America Trench in Mexico, *J. Geophys. Res.*, doi:10.1002/2016JB013242.
29. **Taira, T.**, and F. Brenguier (2016), Response of hydrothermal system to stress transients at Lassen Volcanic Center, California inferred from seismic interferometry with ambient noise, *Earth, Planets and Space*, 68: 162. doi:10.1186/s40623-016-0538-6

30. Kim, W., T.-K. Hong, J. Lee, and **T. Taira** (2016), Seismicity and fault geometry of the San Andreas fault around Parkfield, California and their implications, *Tectonophysics*, 677-678, 34-44, doi:10.1016/j.tecto.2016.03.038.
31. Kim, A., D. S. Dreger, **T. Taira**, and R. M. Nadeau (2016), Changes in repeating earthquake slip behavior following the 2004 Parkfield mainshock from waveform empirical Green's functions finite-source inversion, *J. Geophys. Res.*, 121, 1910–1926, doi:10.1002/2015JB012562.
32. Chaussard, E., R. Bürgmann, H. Fattahi, C. W. Johnson, R. M. Nadeau, **T. Taira**, and I. Johanson (2015), Interseismic coupling and refined earthquake potential on the Hayward-Calaveras fault zone, *J. Geophys. Res.*, 120, 8570–8590, 10.1002/2015JB012230.
33. **Taira, T.**, F. Brenguier, and Q. Kong (2015), Ambient noise-based monitoring of seismic velocity changes associated with the 2014 Mw 6.0 South Napa earthquake, *Geophys. Res. Lett.*, 42, 6997–7004, doi:10.1002/2015GL065308.
34. Shelly, D. R., **T. Taira**, S. G. Prejean, D. P. Hill, and D. S. Dreger (2015), Fluid-faulting interactions: Fracture-mesh and fault-valve behavior in the February 2014 Mammoth Mountain, California earthquake swarm, *Geophys. Res. Lett.*, 42, 5803–5812, doi:10.1002/2015GL064325.
35. **Taira, T.**, D. S. Dreger, and R. M. Nadeau (2015), Rupture process for micro-earthquakes inferred from borehole seismic recordings, *International Journal of Earth Sciences* (ICDP special issue), doi:10.1007/s00531-015-1217-8.
36. Chaussard, E., R. Bürgmann, H. Fattahi, R. M. Nadeau, **T. Taira**, C. W. Johnson, and I. Johanson (2015), Potential for larger earthquakes in the East San Francisco Bay Area due to the direct connection between the Hayward and Calaveras Faults, *Geophys. Res. Lett.*, 42, 2734–2741. doi: 10.1002/2015GL063575.
37. Dreger D. S., M.-H. Huang, A. Rodgers, **T. Taira**, K. Wooddell (2015), Kinematic Finite-Source Model for the August 24, 2014 South Napa, CA Earthquake from Joint Inversion of Seismic, GPS and InSAR Data, *Seismological Research Letters*, 86, 327–334, doi:10.1785/0220140244.
38. **Taira, T.**, R. Bürgmann, R. M. Nadeau, and D. S. Dreger (2014), Variability of fault slip behavior along the San Andreas Fault in the San Juan Bautista region, *J. Geophys. Res.*, 119, 8827–8844, doi:10.1002/2014JB011427.
39. **Taira, T.**, Z. Zheng, and B. Romanowicz (2014), On the systematic long period noise reduction on ocean floor broadband seismic sensors collocated with differential pressure gauges, *Bull. Seis. Soc. Am.*, 104, 247-259.
40. Shelly, D. R., D. P. Hill, F. Massin, J. Farrell, R. B. Smith, and **T. Taira** (2013), A fluid-driven earthquake swarm on the margin of the Yellowstone caldera, *J. Geophys. Res.*, 118, 4872–4886, doi:10.1002/jgrb.50362.
41. Shirzaei, M., R. Bürgmann, and **T. Taira** (2013), Implications of recent asperity failures and aseismic creep for time-dependent earthquake hazard on the Hayward fault, *Earth and Planetary Science Letters*, 371-372, 59–66, doi:10.1016/j.epsl.2013.1004.1024.
42. Farrell, J., R. B. Smith, **T. Taira**, W.-L. Chang, and C. M. Puskas (2010), Dynamics and rapid migration of the energetic 2008-2009 Yellowstone Lake earthquake swarm, *Geophys. Res. Lett.*, 37, L19305, doi:10.1029/2010GL044605.
43. **Taira, T.**, R. B. Smith, and W.-L. Chang (2010), Seismic evidence for dilatational source deformations accompanying the 2004-2008 Yellowstone accelerated uplift episode, *J. Geophys. Res.*, 115, B02301, doi:10.1029/2008JB006281.
44. **Taira, T.**, P. G. Silver, F. Niu, and R. M. Nadeau (2009), Remote triggering of fault-strength changes on the San Andreas fault at Parkfield, *Nature*, 461, 636–639, doi:10.1038/nature08395.

45. **Taira, T.**, P. G. Silver, F. Niu, and R. M. Nadeau (2008), Detecting seismogenic stress evolution and constraining fault zone rheology in the San Andreas Fault following the 2004 Parkfield earthquake, *J. Geophys. Res.*, *113*, B03303, doi:10.1029/2007JB005151.
46. **Taira, T.**, K. Yomogida, Y. Kuwahara, K. Imanishi, and H. Ito (2007), Imaging of crustal heterogeneous structures using a slowness-weighted back-projection with effects of scattering modes II: Application to the Nagamachi-Rifu fault, Japan, area, *J. Geophys. Res.*, *112*, B06312, doi:10.1029/2006JB004382.
47. **Taira, T.**, and K. Yomogida (2007), Imaging of crustal heterogeneous structures using a slowness-weighted back-projection with effects of scattering modes I: Theory, *J. Geophys. Res.*, *112*, B06311, doi:10.1029/2006JB004381.
48. Onizawa, S., H. Oshima, H. Aoyama, H. Y. Mori, T. Maekawa, A. Suzuki, T. Tsutsui, N. Matsuwo, J. Oikawa, T. Ohminato, K. Yamamoto, T. Mori, **T. Taira**, H. Miyamachi, and H. Okada (2007), P-wave velocity structure of Usu volcano: Implication of structural controls on magma movements and eruption locations, *J. Volcano. Geotherm. Res.*, *160*, 175–194, doi:10.1016/j.jvolgeores.2006.10.005.
49. Iwasaki, T., K. Adachi, T. Moriya, H. Miyamachi, T. Matsushima, K. Miyashita, T. Takeda, **T. Taira**, T. Yamada, and K. Ohtake (2004), Upper and middle crustal deformation of an arc–arc collision across Hokkaido, Japan, inferred from seismic refraction/wide-angle reflection experiments, *Tectonophysics*, *388*, 59–73, doi:10.1016/j.tecto.2004.03.025.
50. **Taira, T.**, and K. Yomogida (2004), Imaging of three-dimensional small-scale heterogeneities in the Hidaka, Japan region: Coda spectral analysis, *Geophys. J. Int.*, *158*(3), 998–1008. doi:10.1111/j.1356-246X.2004.02333.x.
51. **Taira, T.**, and K. Yomogida (2003), Characteristics of small-scale heterogeneities in the Hidaka, Japan, region estimated by coda envelope level, *Bull. Seismol. Soc. Am.*, *93*, 1531–1541.
52. **Taira, T.**, T. Moriya, H. Miyamachi, N. Wada, S. Hirano, K. Otsuka, W. Matsubara, and Y. Maruyama (2002), Seismic refraction experiment in the northeastern part of Hokkaido, Japan (in Japanese with English abstract), *Bull. Earthq. Res. Inst. Univ. Tokyo*, *77*, 225–230.
53. **Taira, T.**, and K. Tsumura (2001), The identification and removal of artificial events from the JMA and Tohoku University earthquake catalogs (in Japanese), *Zisin (Journal of the Seismological Society of Japan)*, *53*, 255–258.

RESEARCH GRANTS

Funded proposals:

1. U.S. Geological Survey/NEHRP, Amount: \$70,026, 07/01/2022-06/30/2023, “Improving the USGS 3D Seismic Velocity Model for the San Francisco Region with Joint Body and Surface Wave Tomography: Collaborative Research between University of Wisconsin Madison and University of California Berkeley”, Role: PI at UC Berkeley.
2. Southern California Earthquake Center, Amount: \$10,405, 02/01/2022-01/31/2023, “Continuation of a Technical Activity Group for the Community Stress Drop Validation Study using the 2019 Ridgecrest Earthquake Dataset”, Role: Co-PI.
3. National Science Foundation, Amount: \$139,000, 05/01/2021-04/30/2022, “Towards the Understanding of Deep Crustal Faulting and Fluid Movement through the Analysis of Long Period Earthquakes at Clearlake, CA”, Role: Co-PI.
4. U.S. Geological Survey/NEHRP, Amount: \$73,535, 04/01/2021-03/31/2022, “Toward Integrating Template Matched-Filter Analysis with Machine Learning for Improved Seismic Monitoring and Repeating Earthquake Search in Northern California”, Role: PI.

5. Southern California Earthquake Center, Amount: \$13,427, 02/01/2021-01/31/2022, "A Technical Activity Group for the Community Stress Drop Validation Study", Role: Co-PI.
6. Southern California Earthquake Center, Amount: \$31,000, 02/01/2021-01/31/2022, "Finite-Source Based Stress Drop Estimates for the 2019 Ridgecrest, CA Sequence", Role: Co-PI.
7. U.S. Geological Survey/NEHRP, Amount: \$59,555, 01/01/2021-12/31/2021, "Experimental Constraints on Preparatory Processes and Seismic Velocity Changes before Induced Slip: Collaborative Research between the University of Memphis and University of California Berkeley", Role: PI at UC Berkeley.
8. Southern California Earthquake Center, Amount: \$34,980, 02/01/2020-01/31/2021, "Aftershocks of the Ridgecrest Earthquake Sequence and Their Relationship to Mainshock Slip and Scaling of Source Parameters", Role: PI.
9. U.S. Geological Survey/NEHRP, Amount: \$87,716, 03/01/2020-09/30/2021, "Seismic Imaging of Hayward Fault Zone with a Dense Nodal Seismic Array for Refined Ground Motion Estimation: Collaborative Research with University of California Berkeley and University of Utah", Role: PI at UC Berkeley.
10. U.S. Geological Survey/NEHRP, Amount: \$59,961, 12/01/2017-11/30/2018, "Evaluating and Improving the USGS 3D Seismic Velocity Model in the San Francisco East Bay by Integrating Earthquake Ground-Motion Simulations and Noise-Derived Empirical Green's Functions", Role: PI at UC Berkeley.
11. National Science Foundation, Amount: \$79,748, 08/11/2017-07/31/2020, "Collaborative Research: Evaluating Fault Creep in California using Geodetic and Seismic Observations", Role PI at UC Berkeley.
12. National Science Foundation, Amount: \$227,583, 08/15/2015-07/31/2017, "Collaborative Research: Characterizing Sources of Infragravity Waves and the Earth's Hum using Data from the Cascadia Amphibious Array", Role Co-PI.
13. National Science Foundation, Amount: \$432,102, 07/01/2015-06/30/2018, "Non-Volcanic Tremor in the Northern San Andreas Fault System", Role Co-PI.
14. Southern California Earthquake Center, Amount: \$25,000, 02/01/2015-01/31/2016, "Exploring Temporal Variability in Seismic Velocity at the Salton Sea Geothermal Field and its Implication for Induced Seismicity", Role: Solo-PI.
15. National Science Foundation, Amount: \$101,789, 09/01/2014-08/31/2017, "Collaborative Research: Imaging Stress Transients and Fault Zone Processes with Continuous Cross-Well Active Source Seismic Measurements at SAFOD", Role: PI at UC Berkeley.
16. UC MEXUS Collaborative Grant, Amount: \$17,550, 07/01/2014-12/31/2015, "Spatiotemporal variability of slip budget in subduction of the Cocos plate beneath central Mexico inferred from repeating earthquake activity: Implication for time-dependent earthquake hazard assessment", Role: PI at UC Berkeley.
17. France-Berkeley Fund, Amount: \$10,000, 08/25/2014-08/24/2015, "Time-Lapse Monitoring Stress-Induced Changes in Seismogenic Crust", Role: PI at UC Berkeley.
18. Southern California Earthquake Center, Amount: \$18,000, 02/01/2013-01/31/2015, "Finite-Source Modeling and Stress Drop Estimate of Anza Microearthquakes: Implication for Fault Strength and Earthquake Nucleation", Role: Solo-PI.
19. U.S. Geological Survey/NEHRP, Amount: \$64,487, 06/01/2012-05/31/2013, "Transient Slip on the Hayward Fault from SBAS-InSAR, GPS and Seismicity Data", Role: Co-PI.
20. U.S. Geological Survey/NEHRP, Amount: \$48,480, 07/01/2011-06/30/2012, "Source

Characterization of Mendocino Offshore Earthquakes for Improvements in Monitoring Active Deformation and Estimates of Earthquake Potential in the Mendocino Triple Junction Region”, Role: Lead PI.

21. National Science Foundation, Amount: \$217,399, 07/01/2011-06/03/2013, “Time-Lapse Monitoring for Detection of Transient Stress Changes in Geysers Geothermal Field”, Role: Lead PI.
22. Lawrence Berkeley National Laboratory, Amount: \$542,811, 10/01/2010-09/30/2015, “Archiving and Serving Geothermally-Related Seismic Event Catalog and Waveforms for the Department of Energy at the Northern California Earthquake Data Center”, Role: Senior Personnel.
23. Gordon and Betty Moore Foundation, Amount: \$1,228,785, 11/03/2011-11/02/2013, “TremorScope: Imaging the Deep Workings of the San Andreas Fault”, Role: Co-PI.
24. National Science Foundation, Amount: \$381,752, 07/15/2010-06/30/2013, “Faulting Process from Top to Bottom Along the San Andreas Fault in the San Juan Bautista Region”, Role: Co-PI.
25. National Science Foundation, Amount: \$210,474, 08/15/2009-07/31/2011, “An Investigation into Time-Dependent Fault Zone Properties at Seismogenic Depth on the San Andreas Fault near Parkfield”, Role: Lead PI.
26. U.S. Geological Survey/NEHRP, Amount: \$721,00, 09/01/2009-08/31/2011, “Upgrading the Broadband and Borehole Seismic Networks Operated by the Berkeley Seismological Laboratory at the University of California, Berkeley”, Role: Senior Personnel.
27. U.S. Geological Survey/NEHRP, Amount: \$55,886, 07/01/2009-06/30/2010, “Fault Creep Dynamics, Earthquake Cycles and Earthquake Potential on the Hayward Fault: Collaborative Research with University of California, Berkeley and Indiana University”, Role: Senior Personnel.

PROFESSIONAL ACTIVITIES

2022	Member, Editorial Board for <i>AGU Books</i>
2020	Member, Working Group for San Francisco Bay Region Community Seismic Velocity Model Development
2019	Member, External Review Panel for Lawrence Livermore National Laboratory Seismology group
2019	Member, External Review Panel for TexNet Seismic Monitoring Program
2016-current	Data Mine Editor, <i>Seismological Research Letters</i>
2014-current	Associate Editor, <i>Seismological Research Letters</i>
2014-2016	Member, Editorial Board for <i>Solid Earth</i>
2013	Oral session chair at the 2013 American Geophysical Union meeting
2009-current	Member, California Integrated Seismic Network ShakeMap Working Group
2008-current	Member, California Integrated Seismic Network Standards Committee
2008-current	Provide public release of seismic moment tensor solutions for northern California earthquakes
2008-current	Reviewer for publications; <i>Science Advance</i> , <i>Scientific Reports</i> , <i>Earth and Planetary Science Letters</i> , <i>Geological Research Letters</i> , <i>Journal of Geophysical Research</i> , <i>Seismological Research Letters</i> , <i>Geophysical Journal International</i> , <i>Earth, Planets and Space</i>
2007-2010	Member, Plate Boundary Observatory Data Working Group

- 2007-current Reviewer for agencies; National Science Foundation (*Faculty Early Career Development program, EAR Postdoctoral Fellowships, Geophysics, Tectonics and EarthScope*)
- 2007-2008 Release information on Yellowstone earthquakes (earthquake locations and their magnitudes) to public and media

INVITED SEMINARS AND CONFERENCE PRESENTATIONS

- 2023 CTBTO legacy seismic data workshop
- 2022 Tohoku University, Japan
- 2021 UC Riverside; Univ. Memphis; Tohoku University, Japan; Northern California Earthquake Hazards Workshop
- 2019 Rice University; Building Research Institute, Japan; Tohoku University, Japan; Dalhousie University, Canada
- 2018 Cal Day, UC Berkeley; Kyushu University, Japan; Disaster Prevention Research Institute, Japan; Kyoto University, Japan; Yokohama City University, Japan; National Institute of Advanced Industrial Science and Technology, Japan; Earthquake Research Institute, University of Tokyo, Japan; Tohoku University, Japan
- 2016 Yamagata University, Japan
- 2015 University of Strasbourg, France; University of Grenoble, France; U.S. Geological Survey; Tohoku University, Japan
- 2014 University of California, Santa Cruz
- 2013 Ludwig-Maximilians-Universität München, Germany; Hokkaido University, Japan; Hot Springs Research Institute of Kanagawa Prefecture, Japan; Yokohama City University, Japan; Earthquake Research Institute, University of Tokyo, Japan; National Institute of Advanced Industrial Science and Technology, Japan; Northern California Earthquake Hazards Workshop, USGS, Menlo Park; International Continental Scientific Drilling Program (ICDP) Science Conference at Potsdam, Germany
- 2011 Caltech; California State University Northridge; Kyoto University, Kyoto, Japan; National Research Institute for Earth Science and Disaster Prevention, Tsukuba, Japan; Seismological Society of Japan Fall meeting
- 2010 University of California, Berkeley
- 2009 Lawrence Berkeley National Laboratory; U.S. Geological Survey; American Geophysical Union Fall Meeting
- 2008 University of California, Berkeley; American Geophysical Union Fall Meeting
- 2006 University of Utah

PROFESSIONAL AFFILIATIONS

- 2009-current Japan Geoscience Union
- 2005-current Seismological Society of America
- 2003-current American Geophysical Union
- 1999-current Seismological Society of Japan

FIELD EXPERIENCE

- 2022 Install broadband and strong-motion sensors at Monterey Bay Aquarium Research Institute

2022	Install borehole fibers at UC Berkeley campus
2022-current	Continuous Active-Source Seismic Monitoring at Piñon Flats Observatory, CA
2021	Vs30 measurements in Central Valley
2020	Nodal seismic experiment at Berkeley section of Hayward fault
2017-2020	Continuous Active-Source Seismic Monitoring at the San Andreas Fault Observatory at Depth (SAFOD) site, Parkfield, CA
2015	Heat flow measurement at Hayward fault
2007	Installation of PBO borehole strainmeters in the Yellowstone area, WY
2001	Seismic exploration of Mt. Usu volcano, Hokkaido, Japan
2001	Gravity and GPS measurements on Mt. Taisetu and Erimo Peninsula, Hokkaido, Japan
2000	GPS measurement in the Izu region, central Japan
1999-2000	Seismic refraction/reflection experiments in Hokkaido, Japan
1999	GPS measurement on Mt. Tarumae, Hokkaido, Japan

TEACHING EXPERIENCE

Teaching Assistant, Hokkaido University, Japan

2003	Introductory Physics
2002-2003	Geophysics Laboratory Experiment
2001-2002	Geophysics Laboratory Experiment
2001	Geophysics Seminar