

TAKAAKI TAIRA

CURRICULUM VITAE

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RESEARCH INTEREST

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, and modeling of conduit flow dynamics.

PROFESSIONAL PREPARATION

Yamagata University, Japan	Earth Science	B.S. (1999)
Hokkaido University, Japan	Geophysics	M.S. (2001) and Ph.D. (2004)
Hokkaido University, Japan	Seismology	Postdoc (2004)
Carnegie Institution of Washington	Seismology	Postdoc (2004-2007)
University of Utah	Seismology	Postdoc (2007-2008)

EMPLOYMENT

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

AWARDS

2004	S.V. Starr Fellowship, Carnegie Institution of Washington
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PROFESSIONAL ACTIVITIES

2008-current	Member, California Integrated Seismic Network Standards Committee
2008	Reviewer for publications, Geophysical Journal International
2007-current	Member, Plate Boundary Observatory Data Working Group
2007-current	Reviewer for agencies, National Science Foundation (Geophysics, Tectonics, and EarthScope Science)

PUBLICATIONS

9. 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.
8. 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.
7. 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.
6. 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.
5. 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.
4. 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.
3. Taira, T., and K. Yomogida (2003), Characteristics of small-scale heterogeneities in the Hidaka, Japan, region estimated by coda envelope level, *Bull. Seis. Soc. Am.*, *93*, 1531-1541.
2. 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.
1. 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.