

Ryo Okuwaki

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Positions	International Tenure Track assistant professor University of Tsukuba	06/2019–Present
	Visiting Scholar University of California, San Diego / Mentor: Wenyan Fan	11/2022–12/2022
	Visiting Professor University of Leeds / Mentor: Tim Wright	03/2020–03/2022
	Cooperative Research Fellow Geological Survey of Japan, AIST	09/2019–03/2020
	Visiting Scholar Florida State University / Mentor: Wenyan Fan	09/2019–12/2019
	Research Fellow (PD) Japan Society for the Promotion of Science Geological Survey of Japan, AIST / Mentor: Takahiko Uchide	04/2019–06/2019
	Research Fellow (DC1) Japan Society for the Promotion of Science University of Tsukuba / Mentor: Yuji Yagi	04/2016–03/2019
	Visiting Scholar University of California, Los Angeles / Mentor: Lingsen Meng	09/2016–10/2016
Grants	ERI Joint Research program (Principal coordinator) Earthquake Research Institute, the University of Tokyo “Source Inversion Workshop” (2022-W-03)	2022-04-01 – 2023-03-31
	JSPS Grant-in-Aid for Scientific Research(C) (Co-PI) Development of geodetic data analysis and viscoelasticity data assimilation toward robust detection and forecast of postseismic deformation (21K03694) Budget amount: 4,160,000 JPY (Direct cost: 3,200,000 JPY, Indirect cost: 960,000 JPY)	2021-04-01 – 2025-03-31
	JSPS Grant-in-Aid for Early-Career Scientists (PI) Unraveling unconventional seismic sources using dense seismic arrays (20K14570) Budget amount: 3,770,000 JPY (Direct cost: 2,900,000 JPY, Indirect cost: 870,000 JPY)	2020-04-01 – 2024-03-31
	Grant-in-Aid for JSPS Fellows (PI) Rupture evolution during the mega and large earthquakes resolved by multi-scale source analyses (19J00814) Budget amount: 4,420,000 JPY (Direct cost: 3,400,000 JPY, Indirect cost: 1,020,000 JPY) *Budgets for FY2020 and FY2021 have been declined due to resignation of JSPS fellow to accept tenure-track position at University of Tsukuba	2019-04-01 – 2022-03-31*

	Grant-in-Aid for JSPS Fellows (PI)	2016-04-01 – 2019-03-31
	Irregular rupture evolution during the large/great earthquakes: resolved by high-frequency radiation sources and co-seismic slip distribution (16J00298)	
	Budget amount: 2,500,000 JPY (Direct cost: 2,500,000 JPY, Indirect cost: 0 JPY)	
	Young Researcher Travel Support	2018
	10th ACES (APEC Cooperation for Earthquake Science) International Workshop, Awaji Island Japan, ACES	
	Travel Grant	2015
	The 3rd international summer school on Earthquake Science, Lake-Yamanaka Japan, Earthquake Research Institute of the University of Tokyo and Southern California Earthquake Center	
	Travel Grant	2014
	The 2014 VISES Summer School, Oxnard CA, Southern California Earthquake Center and Earthquake Research Institute of the University of Tokyo	
	Travel Grant	2014
	The 2014 Annual Meeting of Seismological Society of America, Anchorage Ak, Seismological Society of Japan	
Education	Ph.D. (Science), University of Tsukuba	03/2019
	M.Sc. (Science), University of Tsukuba	03/2016
	B.Sc. (Science), University of Tsukuba	03/2014
Awards	AGU 2021 Editors' Citation for Excellence in Refereeing - JGR-Solid Earth	2022
	Excellent Reviewers for 2020, Earth, Planets and Space	2021
	President Prize, University of Tsukuba	2019
	Outstanding Student Presentation Award, JpGU Meeting 2018	2018
	Outstanding reviewer, Earth and Planetary Science Letters	2018
	Best Student Award, Doctoral Program in Earth Science Evolution, University of Tsukuba	2017
	Outstanding Student Presentation Award, JpGU-AGU Joint Meeting 2017	2017
	Best Poster Presentation Award, Tsukuba Global Science Week 2015	2015
	Outstanding Student Presentation Awards, Seismol. Society of Japan 2014 Fall Meeting	2014
Service	Outstanding Student Award (Provost Prize), University of Tsukuba	2014
	Journal editor	
	Seismica - Editorial Board member, Editor of <i>Fast Reports</i>	2022–
	Journal referee	
	Earth and Planetary Science Letters, Earth, Planets and Space, Geophysical Journal International, Geophysical Research Letters, Journal of Asian Earth Sciences, Journal of Geophysical Research - Solid Earth, Nature Geoscience, Progress in Earth and Planetary Science, Physics of the Earth and Planetary Interiors, Pure and Applied Geophysics, Scientific Reports, Tectonophysics	
	Conference convener	
	- Co-convener	2022
	with Zhe Jia, Théa Ragon, and Elisa Tinti	
	AGU Fall Meeting 2022, S001: Advancements in imaging earthquake source processes	
	- Co-convener	2022
	with Makiko Ohtani, Keishi Okazaki, and Shunya Kaneki	
	JpGU Meeting 2022, S-SS07: Fault Rheology and Earthquake Physics	
	- Co-convener	2022
	with Saeko Kita	
	JpGU Meeting 2022, U-07: Study abroad during the COVID-19 pandemic	
	- Co-convener	2020
	with Théa Ragon, Wen Yuan Fan, and Dara Goldberg	
	AGU Fall Meeting 2020, S036/S037/S042/S043: Modeling and imaging complex earthquake ruptures	

	<ul style="list-style-type: none"> - Co-convener 2019 with Théa Ragon, Wenyan Fan, and Harsha Bhat AGU Fall Meeting 2019, S42B/S51E: Resolving the complexity of earthquake processes - Co-convener 2019 with Saeko Kita, Tomohiro Ohuchi, and Marcel Thielmann JpGU Meeting 2019, S-CG50: Intraslab and intraplate earthquakes - Primary convener 2018 with Wenyan Fan, Valère Lambert, and Zacharie Duputel AGU Fall Meeting 2018, S41A/S42A/S43C: Earthquake Source Physics: Unified perspectives from Kinematic Source Imaging, Physics-based Modeling, Laboratory Experiments, and Earthquake Geology
	Organizer <ul style="list-style-type: none"> - Source Inversion Workshop 2022 Earthquake Research Institute, the University of Tokyo, Joint Research Program https://rokuwaki.github.io/SIW/ - SOLIST (SOLId-earth Seminar of Tsukuba) seminar series 2021– https://www.geol.tsukuba.ac.jp/~rokuwaki/solist/
Research interests	Geophysics, Seismology, Earthquake seismology, Earthquake-source kinematics and physics, Earthquake source imaging (backprojection, finite-fault modeling), Earth's subsurface phenomena, Environmental seismology, Array seismology
Invited talks	Envisioning the Future of Geophysics: A Celebration of the Centennial of the Seismological Laboratory, Caltech, Pasadena CA 2022 American Geophysical Union Fall Meeting 2021, S44C-04, New Orleans LA (online) 2021 Imperial College London, Earth and planets seminars, London UK (online) 2021 JpGU Meeting 2018, Session: Intraslab and intraplate earthquake, Chiba JP 2018 SCEC-ERI, The 3rd international summer school on Earthquake Science, Yamanashi JP 2015
Publications	<ul style="list-style-type: none"> - Hu, Y., Yagi, Y., Okuwaki, R., Yamaguchi, R., & Gao, H., Restricted rupture evolution of the 2022 Mw 6.7 Luding China earthquake (submitted). doi:10.31223/X5QS7H - Ohara, K., Yagi, Y., Yamashita, S., Okuwaki, R., Hirano, S., & Fukahata, Y., Complex evolution of the 2016 Kaikoura earthquake revealed by teleseismic body waves (submitted). doi:10.31223/X55936 32. Fang, J., Ou, Q., Wright, T. J., Okuwaki, R. , Amey, R., Craig, T. J., Elliott, J. R., Hooper, A. J., Lazecky, M., & Maghsoudi, Y., Earthquake Cycle Deformation Associated with the 2021 Mw 7.4 Maduo (Eastern Tibet) Earthquake: An Intraplate Rupture Event on a Slow-Slipping Fault from Sentinel-1 InSAR and Teleseismic Data (accepted). <i>J. Geophys. Res. Solid Earth</i> , , – , . 31. Yamashita, S., Yagi, Y., Okuwaki, R. , Shimizu, K., Agata, R., & Fukahata, Y., Potency density tensor inversion of complex body waveforms with time-adaptive smoothing constraint. <i>Geophysical Journal International</i> , 231, 91–107, May 2022. doi:10.1093/gji/ggac181 30. Tadapansawut, T., Yagi, Y., Okuwaki, R. , Yamashita, Y., & Shimizu, K., Complex rupture process on the conjugate fault system of the 2014 Mw 6.2 Thailand earthquake. <i>Progress in Earth and Planetary Science</i> , 9, 1–13, April 2022. doi:10.1186/s40645-022-00484-5 29. Yamashita, S., Yagi, Y., & Okuwaki, R. , Irregular rupture propagation and geometric fault complexities during the 2010 El Mayor-Cucapah earthquake. <i>Scientific Reports</i> , 12, 4575, March 2022. doi:10.1038/s41598-022-08671-6 28. Fan, W., Barbour, A. J., McGuire J. J., Huang, Y., Lin, G., Cochran, E. S., & Okuwaki, R. , Very low frequency earthquakes in between the seismogenic and tremor zones in Cascadia? <i>AGU</i>

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doi:10.1029/2021AV000607

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26. **Okuwaki, R.**, & Fan, W., Oblique convergence causes both thrust and strike-slip ruptures during the 2021 M 7.2 Haiti earthquake. *Geophysical Research Letters*, 49, e2021GL096373, January 2022.
doi:10.1029/2021GL096373
25. **Okuwaki, R.**, Hicks, S. P., Craig, T. J., Fan, W., Goes, S., Wright, T. J., & Yagi, Y., Illuminating a Contorted Slab with a Complex Intraslab Rupture Evolution during the 2021 Mw 7.3 East Cape, New Zealand Earthquake, *Geophysical Research Letters*, 48, e2021GL095117, December 2021.
doi:10.1029/2021GL095117
24. Hu, Y., Yagi, Y., **Okuwaki, R.**, & Shimizu, K., Back-propagating rupture evolution within a curved slab during the 2019 Mw 8.0 Peru intraslab earthquake, *Geophysical Journal International*, 223, 1602–1611, December 2021.
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23. **Okuwaki, R.**, Fan, W., Yamada, M., Osawa, H., & Wright, T. J., Identifying landslides from continuous seismic surface waves: a case study of multiple small-scale landslides triggered by Typhoon Talas, 2011, *Geophysical Journal International*, 226, 729–741, August 2021.
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22. Heidarzadeh, M., Pranantyo, I. R., **Okuwaki, R.**, Dogan, G. G., & Yalciner, A. C., Long tsunami oscillations following the 30 October 2020 Mw 7.0 Aegean Sea earthquake: Observations and modelling, *Pure and Applied Geophysics*, 178, 1531–1548, May 2021.
doi:10.1007/s00024-021-02761-8
21. Yamashita, S., Yagi, Y., **Okuwaki, R.**, Shimizu, K., Agata, R., & Fukahata, Y., Consecutive Ruptures on a Complex Conjugate Fault System During the 2018 Gulf of Alaska Earthquake, *Scientific Reports*, 11, 1–11, March 2021.
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20. Shimizu, K., Yagi, Y., **Okuwaki, R.**, & Fukahata, Y., Construction of fault geometry by finite-fault inversion of teleseismic data, *Geophysical Journal International*, 224, 1003–1014, February 2021.
doi:10.1093/gji/ggaa501
19. Tadapansawut, T., **Okuwaki, R.**, Yagi, Y., & Yamashita, S., Rupture Process of the 2020 Caribbean Earthquake along the Oriente Transform Fault, Involving Supershear Rupture and Geometric Complexity of Fault, *Geophysical Research Letters*, 48, 1–9, January 2021.
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18. **Okuwaki, R.**, Hirano, S., Yagi, Y., & Shimizu, K., Inchworm-like source evolution through a geometrically complex fault fueled persistent supershear rupture during the 2018 Palu Indonesia earthquake, *Earth and Planetary Science Letters*, 547, 116449 (1–8), October 2020.
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16. Takemura, S., **Okuwaki, R.**, Kubota, T., Shiomi, K., Kimura, T., & Noda, A., Centroid moment tensor inversions of offshore earthquakes using a three-dimensional velocity structure model: Slip distributions on the plate boundary along the Nankai Trough, *Geophysical Journal International*, 220, 1109–1125, August 2020.
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14. Shimizu, K., Yagi, Y., **Okuwaki, R.**, & Fukahata, Y., Development of an inversion method to extract information on fault geometry from teleseismic data, *Geophysical Journal International*, 220, 1055–1065, February 2020.
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13. **Okuwaki, R.**, Kasahara, A., Yagi, Y., Hirano, S., & Fukahata, Y., Backprojection to image slip, *Geophysical Journal International*, 216, 1529–1537, March 2019.
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11. **Okuwaki, R.**, & Yagi, Y., Role of geometric barriers in irregular-rupture evolution during the 2008 Wenchuan earthquake, *Geophysical Journal International*, 212, 1657–1664, March 2018.
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10. **Okuwaki, R.**, & Yagi, Y., Rupture Process During the Mw 8.1 2017 Chiapas Mexico Earthquake: Shallow Intraplate Normal Faulting by Slab Bending, *Geophysical Research Letters*, 44, 11816–11823, December 2017.
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3. Yagi, Y., **Okuwaki, R.**, Enescu, B., & Fukahata, Y., Unusual low-angle normal fault earthquakes after the 2011 Tohoku-oki megathrust earthquake, *Earth, Planets and Space*, 67, 7 pages, June 2015.
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1. Yagi, Y., Okuwaki, R., Enescu, B., Hirano, S., Yamagami, Y., Endo, S., & Komoro, T., Rupture process of the 2014 Iquique Chile earthquake in relation with the foreshock activity, *Geophysical Research Letters*, 41, 4201–4206, June 2014.
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- Rowe, C. D., Agius, M., Convers, J., Funning, G., Galasso, C., Hicks, S., Huynh, T., Lange, J., Lecocq, T., Mark, H., Okuwaki, R., Ragon, T., Rychert, C., Teplitzky, S., & van den Ende, M. The Launch of Seismica: a seismic shift in publishing. *Seismica*, , –, *accepted*.
- Okuwaki, R., Chasing supershear earthquakes. *Nature Geoscience* (non-peer reviewed News Views article), , –, October 2022.
doi:10.1038/s41561-022-01054-6
*Fig. 1 in this article seems to have contained an author-unintended error. The original, non-edited-by-journal version of Fig. 1 can be found here.
- Hirano, S., & Okuwaki, R., Note on “Backprojection to image slip”, September 2020.
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