

**Ryo Okuwaki**

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<b>Education</b>	Ph.D. (Science), University of Tsukuba	03/2019
	M.Sc. (Science), University of Tsukuba	03/2016
	B.Sc. (Science), University of Tsukuba	03/2014
<b>Employment</b>	Research Fellow (PD) Japan Society for the Promotion of Science Geological Survey of Japan, AIST / Mentor: Takahiko Uchide	04/2019–Present
	Research Fellow (DC1) Japan Society for the Promotion of Science University of Tsukuba / Mentor: Yuji Yagi	04/2016–03/2019
<b>Grant</b>	Grant-in-Aid for JSPS Fellows Irregular rupture evolution during the large/great earthquakes: resolved by high-frequency radiation sources and co-seismic slip distribution (16J00298)	2016–2019
	Young Researcher Travel Support 10th ACES (APEC Cooperation for Earthquake Science) International Workshop, Awaji Island Japan, ACES	2018
	Travel Grant The 3rd international summer school on Earthquake Science, Lake-Yamanaka Japan, Earthquake Research Institute of the University of Tokyo and Southern California Earthquake Center	2015
	Travel Grant The 2014 VISES Summer School, Oxnard CA, Southern California Earthquake Center and Earthquake Research Institute of the University of Tokyo	2014
	Travel Grant The 2014 Annual Meeting of Seismological Society of America, Anchorage Ak, Seismological Society of Japan	2014
<b>Award</b>	President Prize, University of Tsukuba	2019
	Outstanding Student Presentation Award, JpGU Meeting 2018	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
<b>Service</b>	Outstanding Student Award (Provost Prize), University of Tsukuba	2014
	<b>Journal referee</b> (publons)	
	Earth and Planetary Science Letters	
	Earth, Planets and Space	
	Journal of Asian Earth Sciences	
	Journal of Geophysical Research - Solid Earth	
	Pure and Applied Geophysics	
	Tectonophysics	

**Conference convener**

- Co-convener 2019  
with Saeko Kita, Tomohiro Ohuchi, and Marcel Thielmann  
JpGU Meeting 2019, S-CG50: Intralab and intraplate earthquakes
- Primary convener 2018  
with Wenyuan Fan, Valère Lambert, and Zacharie Duputel  
AGU Fall Meeting 2018, S006: Earthquake Source Physics: Unified perspectives from Kinematic Source Imaging, Physics-based Modeling, Laboratory Experiments, and Earthquake Geology

**Visiting appt.** 09/2016–10/2016  
University of California, Los Angeles  
Lingsen Meng

**Invited talk** 2018  
JpGU Meeting 2018, Session: Intralab and intraplate earthquake  
2015  
The 3rd international summer school on Earthquake Science

**Research interest** 2018  
Geophysics  
Earthquake Seismology

**Language** 2018  
Japanese (Mother tongue), English (Professional working proficiency)  
Fortran, Python, matplotlib, GMT, SAC, UNIX utilities

**Affiliated society** 2018  
American Geophysical Union (AGU), Japan Geoscience Union (JpGU), Seismological Society of America (SSA), Seismological Society of Japan (SSJ), Southern California Earthquake Center (SCEC)

**Publication** 2018  
13 peer-reviewed articles published  
Total citations: 355 (Google Scholar), 254 (Web of Science), 268 (Scopus)  
h-index: 8 (Google Scholar), 7 (Web of Science), 8 (Scopus)

13. **Okuwaki, R.**, Kasahara, A., Yagi, Y., Hirano, S., & Fukahata, Y., Backprojection to image slip, *Geophysical Journal International*, 216, 1529–1537, March 2019.  
doi:10.1093/gji/ggy505
12. Aránguiz, R., Urra, L., **Okuwaki, R.**, & Yagi, Y., Development and application of a tsunami fragility curve of the 2015 tsunami in Coquimbo, Chile, *Natural Hazards and Earth System Sciences*, 18, 2143–2160, August 2018.  
doi:10.5194/nhess-18-2143-2018
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.  
doi:10.1093/gji/ggx502
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.  
doi:10.1002/2017GL075956
9. Miyakawa, A., Sumita, T., Okubo, Y., **Okuwaki, R.**, Otsubo, M., Uesawa, S., & Yagi, Y., Volcanic magma reservoir imaged as a low-density body beneath Aso volcano that terminated the 2016 Kumamoto earthquake rupture, *Earth, Planets and Space*, 68, 9 pages, December 2016.  
doi:10.1186/s40623-016-0582-2
8. Yagi, Y., **Okuwaki, R.**, Enescu, B., Kasahara, A., Miyakawa, A., & Otsubo, M., Rupture process of the 2016 Kumamoto earthquake in relation to the thermal structure around Aso volcano, *Earth, Planets and Space*, 68, 6 pages, July 2016.  
doi:10.1186/s40623-016-0492-3
7. **Okuwaki, R.**, Yagi, Y., Aránguiz, R., González, J., & González, G., Rupture Process During the 2015 Illapel, Chile Earthquake: Zigzag-Along-Dip Rupture Episodes, *Pure and*

- Applied Geophysics*, 173, 1011–1020, April 2016.  
doi:10.1007/s00024-016-1271-6
6. Mai, P. M., Schorlemmer, D., Page, M., Ampuero, J., Asano, K., Causse, M., Custodio, S., Fan, W., Festa, G., Galis, M., Gallovic, F., Imperatori, W., Käser, M., Malysky, D., **Okuwaki, R.**, Pollitz, F., Passone, L., Razafindrakoto, H. N. T., Sekiguchi, H., Song, S. G., Somala, S. N., Thingbaijam, K. K. S., Twardzik, C., van Driel, M., Vyas, J. C., Wang, R., Yagi, Y., & Zielke, O., The Earthquake- Source Inversion Validation (SIV) Project, *Seismological Research Letters*, 87, 690–708, April 2016.  
doi:10.1785/0220150231
  5. Aránguiz, R., González, G., González, J., Catalán, P. A., Cienfuegos, R., Yagi, Y., **Okuwaki, R.**, Urra, L., Contreras, K., Del Rio, I., & Rojas, C., The 16 September 2015 Chile Tsunami from the Post-Tsunami Survey and Numerical Modeling Perspectives, *Pure and Applied Geophysics*, 173, 333–348, February 2016.  
doi:10.1007/s00024-015-1225-4
  4. Yagi, Y., & **Okuwaki, R.**, Integrated seismic source model of the 2015 Gorkha, Nepal, earthquake, *Geophysical Research Letters*, 42, 6229–6235, August 2015.  
doi:10.1002/2015GL064995
  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.  
doi:10.1186/s40623-015-0271-6
  2. **Okuwaki, R.**, Yagi, Y., & Hirano, S., Relationship between High-frequency Radiation and Asperity Ruptures, Revealed by Hybrid Back-projection with a Non-planar Fault Model, *Scientific Reports*, 4, 6 pages, November 2014.  
doi:10.1038/srep07120
  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.  
doi:10.1002/2014GL060274

#### Manuscript being prepared

- Fault scarps confining rupture evolution during the 2015 Gorkha Nepal earthquake, *in prep.*
- Inchworm-like slip evolution across geometric barriers during the 2018 Palu Indonesia earthquake, *in prep.*
- Development of an inversion method to extract information on fault geometry from teleseismic data, *submitted*.  
doi:10.31223/osf.io/q58t7 (preprint in EarthArXiv)
- The 2018 Palu Tsunami as a combination of several landslides and co-seismic tsunami effects, *submitted*.