

Jing WU

Associate Professor

Institute of Geology and Geophysics (IGG), Chinese Academy of Sciences (CAS)

Research Interest: Seismic Anisotropy, Earthquake Detection, Repeating Earthquakes, Fault Zone Imaging

Education

2007 Ph.D.	Institute of Geophysics, China Earthquake Administration
2004 M.S.	Institute of Earthquake Science, China Earthquake Administration

Employment

2013.01-	Institute of Geology and Geophysics, CAS, Associate Professor
2015.01-2016.01	Georgia Institute of Technology, USA, Visiting Scholar
2014.02-2014.05	Missouri University of Science and Technology, USA, Visiting Scholar
2010.06-2012.12	Institute of Geology and Geophysics, CAS, Postdoc Fellow
2012.03-2012.06	Georgia Institute of Technology, USA, Visiting Scholar
2009.11-2010.05	Jiangsu Earthquake Administration, CEA, Associate Professor
2007.09-2009.10	Jiangsu Earthquake Administration, CEA, Assistant Professor
2004.11-2005.02	Edinburgh University, UK, Visiting Student
1997.09-2001.08	Nanjing Seismological Observatory, Assistant Professor

Projects

2016-2019	High resolution seismicity and 3D crustal anisotropy in Longmenshan Fault Zone based on waveform match technique NSFC41574055
2015-2016	Chinese Government Scholarship CSC201404910185
2014-2017	Lithosphere rheology and seismic anisotropy in central Tibet NSFC41374064
2011-2013	Seismic anisotropy in middle and southern part of Tanlu Fault NSFC41074037
2009-2011	Complex stress distribution revealed by seismic anisotropy NSFC40804012

*CSC -- Chinese Government Scholarship; *NSFC -- National Natural Science Foundation of China

Honors

2008	Excellent Doctoral Dissertation Award of China Earthquake Administration
2005	Excellent Paper Award of the 21th Annual Geophysical Meeting in China

Publications

1) **Wu J.**, Yao D.D., Meng X.F., Peng Z.G., Su J.R., Long F., 2017. Spatial-temporal

- evolutions of early aftershocks following the 2013 Mw 6.6 Lushan earthquake in Sichuan, China, *J. Geophys. Res. Solid Earth*, 122, 2873~2889, doi: 10.1002/2016JB013706
- 2) Liu G., Li C., Peng Z., Li X., **Wu J.**, 2017. Detecting remotely triggered microseismicity around Changbaishan Volcano following nuclear explosions in North Korea and large distant earthquakes around the world, *Geophys. Res. Lett.*, 44, 4829~4838, doi:10/1002/2017GL072511
 - 3) Kong F., **Wu J.**, Liu K., Gao S., 2016. Crustal anisotropy and ductile flow beneath the eastern Tibetetan Plateau and adjacent areas, *Earth Planet. Sci. Lett.*, 442: 72-79
 - 4) **Wu J.**, Zhang Z., Kong F., Yang B., Yu Y., Liu K., Gao S., 2015. Complex seismic anisotropy and its geodynamic implications, *Earth Planet. Sci. Lett.*, 413: 167-175
 - 5) Zhang Z.J., Chen Y., Yuan X.H., Tian X.B., Klemperer S.L., Xu T., Bai Z.M., Zhang H.S., **Wu J.**, Teng J.W., 2013. Normal faulting resulting from eastward lower crustal flow in South Tibet, using evidence from passive seismic profiling across the Yadong-Gulu Rift, *Tectonophysics* 606:178-186
 - 6) **Wu J.**, Zhang Z.J., 2012. Spatial distribution of seismic layer, crustal thickness, and Vp/Vs ratio in the Permian Emeishan Mantle Plume region, *Gondwana Research*, 22: 127-139
 - 7) **Wu J.**, Peng Z.G., Wang W.J., Gong X., Chen Q.F., Wu C.Q., 2012. Comparisons of dynamic triggering near Beijing, China following recent large earthquakes in Sumatra, *Geophys. Res. Lett.*, 39, L21310, doi: 10.1029/2012GL053515
 - 8) Zhang Z.J., **J. Wu**, Y. Deng, J. Teng, X. Zhang, Y. Chen, G. Panza, 2012. Lateral variation of the strength of lithosphere across the eastern North China Craton: New constraints on lithospheric disruption, *Gondwana Research*, 22: 1047-1059
 - 9) Zhang Z., Deng Y.F., Chen L., **Wu J.**, Teng J.W., Panza G., 2012. Seismic structure and rheology of the crust under mainland China, *Gondwana Research*, doi:10.1016/j.gr.2012.07.010
 - 10) Zhang Z.J., Wang Y.H., Deng Y.F., Chen L., **Wu J.**, Teng J.W., Chen Y., Fan W.M., Panza G., 2012. Geophysical evidence of disruption by underplating-triggered lower-crust flow of the Archean lithosphere of North China Craton, *Terra Nova*, 25(3): 245-251
 - 11) **Wu J.**, Wang H., Cao J.L., Gao Y., Wang Q., 2011. Influence of Crustal inhomogeneity on seismicity in North China, *Chinese J. Geophys.* (in Chinese), 54(8): 2023-2033
 - 12) Gao Y., **J. Wu**, Y. Fukao, Y. Shi, A. Zhu, 2011. Shear wave splitting in the crust in North China: stress, faults and tectonic implications, *Geophys. J. Int.*, 187: 642-654
 - 13) **Wu J.**, Gao Y., Shi Y.T., Zhao X., Li J.L., 2010. Tectonic stress analysis based on the crustal seismic anisotropy in Jiangsu and its adjacent area, *Chinese J. Geophys.* (in Chinese), 53(7): 1622-1630
 - 14) Gao Y., **Wu J.**, Yi G.X., Shi Y.T., 2010. Crust-mantle coupling in North China: Preliminary analysis from seismic anisotropy, *Chinese Sci Bull*, 55, doi: 10.1007/s11434-010-4135-y

- 15) **Wu J.**, Gao Y., Chen Y.T., 2009. Shear-wave splitting in the crust beneath the southeast Capital area of North China, *J. Seismol.*, 13: 277-286
- 16) Gao Y., **J. Wu**, J. Cai, Y. Shi, 2009. Shear-wave splitting in southeast of Cathaysia block, South China, *J. Seism.*, 13: 267-275
- 17) Shi Y.T., Y. Gao, **J. Wu**, Y. Su, 2009. Crustal seismic anisotropy in Yunnan, Southwestern China, *J. Seism.*, 13: 287-299
- 18) **Wu J.**, Gao Y., Chen Y.T., 2008. Crustal seismic anisotropy in southeastern Capital area, China. *Acta Seismologica Sinica*, 30(1): 1~11
- 19) Gao Y., **Wu J.**, 2008. Compressive stress field in the crust deduced from shear-wave anisotropy: an example in capital area of China, *Chinese Sci Bull* (in Chinese), 53(23): 2933-2939
- 20) Liu K.H., S.S. Gao, Y. Gao, **J. Wu**, 2008. Shear wave splitting and mantle flow associated with the deflected Pacific slab beneath northeast Asia, *J. Geophys. Res.*, 113, B011305, doi: 10.1029/2007JB005178
- 21) **Wu J.**, Gao Y., Cai J.A., Shi Y.T., Pu S., Bao T., Li Z.N., 2007. Preliminary study on seismic anisotropy in the crust in southeast of Cathaysia Block, *Chinese J. Geophys.* (in Chinese), 50(6): 1748-1756
- 22) **Wu J.**, Gao Y., Chen Y.T., Huang J.L., 2007. Seismic anisotropy in the crust in northwestern capital area of China, *Chinese J. Geophys.* (in Chinese), 50(1): 209-220
- 23) **Wu J.**, Crampin S., Gao Y., Hao P., Volti T., Chen Y.T., 2006. Smaller source earthquakes and improved measuring techniques allow the largest earthquakes in Iceland to be stress forecast (with hindsight), *Geophys. J. Int.*, 166: 1293-1298