

Tao Jiang

Associate Professor

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RESEARCH INTERESTS

Remote triggering microearthquakes and non volcanic trigger, and high resolution seismic method

EDUCATION

July 2002-July 2006 Ph.D. in Geo-exploration and Information Technology, Jilin University

WORK EXPERIENCE

2008- 2009 Visiting Scholar, School of Earth and Atmospheric Sciences, Georgia Institute of Technology

2004-present Associate Professor, College of Instrumentation Science and Electrical Engineering, Jilin University

2002- 2004 Assistant Professor, College of Instrumentation Science and Electrical Engineering, Jilin University

FUNDING

2007- 2009 PI, “Study on directional illumination seismic method based on single controlled source”, National Natural Science Foundation of China, ¥450,000.

2002- 2005 “Seismic Imaging technique with phased-array vibrator system”, National 863 High-Tech Foundation of China ¥600,000.

AWARDS AND SCHOLARSHIPS

2007 Young Faculty Scholarship of China

2003 The First Prize of Technology Progress Award in Jilin Province, China.

PRESENTATIONS

2008 “Global survey of earthquakes and non-volcanic tremor triggered by the 2008 Mw7.9 Wenchuan earthquake” *2008 American Geophysical Union Fall Meeting, Dec 15-19, San Francisco, U.S.*

- 2007 “Simulation on directional illumination method of phased-array vibrator system”, *The 23th Chinese Geophysics Society Annual Meeting, Qingdao, China*
- 2007 “Simulation on detecting a dipping layer with phased-array vibrator system”, *The 23th Chinese Geophysics Society Annual Meeting, Qingdao, China*
- 2006 “Quantitative study on phased-array vibrator system improving seismic signal resolution”, *The 2nd International Conference on Environmental and Engineering Geophysics (ICEEG2006), Wuhan, China*
- 2005 “Influence on the seismic resolution for phased array vibroseis system”, *The 21th Chinese Geophysics Society Annual Meeting, Changchun, China*

PUBLICATIONS

- 2008 Jiang, T., Z. Peng, W. Wang, and Q. Chen (2008), Global survey of earthquakes and non-volcanic tremor triggered by the 2008 Mw7.9 Wenchuan earthquake, *Eos Trans. AGU*, 2008, 89 (53).
- 2008 Peng, Z., Wang, W., Chen, Q. and Jiang, T.. Remotely triggered seismicity in northeast China following the 2008 Mw7.9 Wenchuan earthquake. (*submitted*).
- 2008 Jiang, T., J. Lin, and Chen. Z. SNR Improvement of Seismic Signals in Different Time Delays, (*in publish*). *Chinese Journal of Geophysics-Chinese edition (Acta Geophysics Sinica)*.
- 2008 Jiang, T., Lin J., Yang D., and Chen, Z, Analysis of directional seismic signal based on phased-array vibrator system, *Chinese Journal of Geophysics-Chinese edition (Acta Geophysics Sinica)*, 2008, 51 (5): 1551-1556.
- 2008 Jiang, T. and Lin J, Phase control technique of distributed vibrator array system, *the 7th World Congress on Intelligent Control and Automation*, 2008, June 25-27, Chengdu, China.
- 2007 Jiang, T., Lin, J. and Chen Z., Simulation on detecting a dipping layer with phased-array vibrator system, *the 23th CGS (Chinese Geophysical Society) Annual Meeting, Qingdao, China*, 2007, 513.
- 2007 Yang, D., and Jiang, T. Simulation on directional illumination method of phased-array vibrator system, *the 23th CGS Annual Meeting, Qingdao, China*, 2007, 96.
- 2006 Jiang, T., Lin, J., and Li T., Boosting signal to noise ratio of seismic signals using the phased-array vibrator system, *Chinese Journal of Geophysics (Acta Geophysics Sinica)*, 2006, 49 (6): 1658-1664.
- 2006 Jiang, T., Lin, J., and Chen Z., The high signal-to-noise ratio detection of phased-array vibroseis for horizontal layer underground medium, *Chinese Journal of scientific Instrument*, 2006, 27(11), 1369-1372.
- 2006 Wang, Z, Chen, Z, and Jiang, T, Numerical simulation for seismic exploration with vibrator, *Journal of Jilin University (Earth Science Edition)*, 2006, 36(4),

- 627-630.
- 2006 Jiang, T., Lin, J. and Wang, Z., Quantitative study on how phased-array vibrator system improves seismic signal resolution, *The 2nd International Conference on Environmental and Engineering Geophysics (ICEEG2006)*, Wuhan, China, 2006.
- 2005 Jiang, T., Lin, J., and Chen, Z., The correlation detection method of signals in phased array of vibroseis system, *Chinese Journal of scientific Instrument*, 2005, 26(4): 336-339.
- 2005 Jiang, T., Lin, J. and Chen, Z., Influence on the seismic resolution for phased array vibroseis system, *the 21th CGS Annual Meeting, Changchun, China*, 2005, 467.
- 2004 Jiang, T. and Lin, J., Comparison of the detected seismic signals between phased array and combination vibroseises, *Kongzhi yu Juece/ Control and Decision*, 2004, 19(12): 1345-1348+1353.
- 2004 Jiang, T., Lin, J. and Chen, Z., Seismic beam-forming in phased array of vibroseis, *Journal of Jilin University (Information science edition)*, 2004, 22(3): 181-184.
- 2004 Lin, J., Chen, P. and Jiang, T., The signal design of electrodynamic vibroseis for surface Imaging, *Progress in Geophysics*, 2004, 19(4): 807-811.
- 2004 Chen, P., Lin, J., and Jiang, T., The design of sweep module in phased array of vibroseis system, *Chinese Journal of scientific Instrument*, 2004, 25(4): 230-233.