

# Dongdong Tian

## Ph.D. Candidate in Geophysics

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## Education

- 2012 – present      📌 **Ph.D. Candidate** in Geophysics,  
University of Science and Technology of China, Hefei, China.
- 2008 – 2012      📌 **B.S.** in Geophysics,  
University of Science and Technology of China, Hefei, China.  
**Thesis title:** *Simulating Seismic Wave Propagation in 3D Heterogeneous Isotropic Media Using Staggered-Grid Finite Differences*  
**Advisor:** Prof. Lianxing Wen

## Research Interests

- 📌 Structure of the Earth's Deep Interior
- 📌 Microseismic Sources
- 📌 Seismic Interferometry
- 📌 Numerical Simulation of Wave Propagation
- 📌 Seismic Characteristics of Nuclear tests

## Professional Societies and Activities

- 2012 – present      📌 Member of the American Geophysical Union (AGU).
- 2016 – present      📌 Technical support for China Geophysical Reference Model.
- 2016 – present      📌 Leader of GMT Chinese Community.
- 2016 – present      📌 Maintainer of pssac module since GMT 5.3.
- 2017 – present      📌 Peer-reviewer of scientific journals: *Geophysical Research Letters* (1)

## Research Publications

- 1 Wen, L., **Tian, D.** & Yao, J. (n.d.). Seismic structure and dynamic process of the earth's inner core and its boundary. *Chinese Journal of Geophysics*. under review (in Chinese).
- 2 **Tian, D.** & Wen, L. (2017). Seismological evidence for a localized mushy zone at the earth's inner core boundary. *Nature communications*, 8, 165. doi:10.1038/s41467-017-00229-9
- 3 Chen, X., **Tian, D.** & Wen, L. (2015). Microseismic sources during hurricane sandy. *Journal of Geophysical Research: Solid Earth*, 120(9), 6386–6403. doi:10.1002/2015JB012282
- 4 Zhang, M., **Tian, D.** & Wen, L. (2014). A new method for earthquake depth determination: Stacking multiple-station autocorrelograms. *Geophysical Journal International*, 197(2), 1107–1116. doi:10.1093/gji/ggu044

## Meeting Abstracts

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- 1 **Tian, D.** & Wen, L. (2016). *Seismic structures of the earth's inner core boundary beneath the bearing sea and mexico*. Abstract DI43A-2657 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12–16 Dec.
- 2 **Tian, D.** & Wen, L. (2015). *Varying seismic property of the earth's inner core boundary*. Abstract DI33A-2606 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14–18 Dec.
- 3 **Tian, D.** & Wen, L. (2014). *Seismic study on the properties of the earth's inner core boundary*. Abstract DI31B-4269 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15–19 Dec.
- 4 Chen, X., **Tian, D.** & Wen, L. (2013). *Seismic tracking of hurricane sandy*. Abstract S11A-2296 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9–13 Dec.
- 5 **Tian, D.** & Wen, L. (2013). *Regional topography variation of earth's inner core boundary*. Abstract DI23A-2282 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9–13 Dec.
- 6 Zhang, M., **Tian, D.** & Wen, L. (2013). *A new method for earthquake determination: Stacking multiple-station autocorrelograms*. Abstract S51A-2301 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9–13 Dec.
- 7 **Tian, D.** & Wen, L. (2012). *Simulating wave propagation in a faulted medium using a 3d finite difference method*. Abstract S43A-2458 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3–7 Dec.

## Talks

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- 1 **Tian, D.** Getting started with GMT in 60 minutes. *Invited Talk in Training on Analysis and Application of Crustal Deformation Data*, Wuhan, China, Sep. 21, 2016.
- 2 **Tian, D.** Seismic study on the properties of the Earth's inner core boundary. *Invited Talk at China Earthquake Networks Center*, Beijing, China, Oct. 23, 2014.