

Xiao Xiao

PhD Candidate in Geophysics

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Education

- 2017 – present **PhD Candidate** in Geophysics
University of Science and Technology of China, Hefei, China
- 2013 – 2017 **B.S.** in Geophysics
WuHan University, Wuhan, China

Research Interests

- Ambient Noise Source Analysis
- Seismic Tomography
- Seismic Interferometry

Professional Societies & Activities

- Spring, 2019 Student Organizer of “Weekly Graduate Student Seminar of Geophysics, USTC”
- 2017 Assist in coordinating exchange meeting of [China Seismological Reference Model](#)
- 2017 – present Member of the [American Geophysical Union \(AGU\)](#)
- 2017 – present Research assistant and database manager for [China Seismological Reference Model](#)
- 2016 – present Contributor of [GMT China Community](#)

Awards & Honors

- 2017 Outstanding undergraduate graduates of WuHan University
- 2017 Outstanding undergraduate thesis of WuHan University

Peer-reviewed Publications

1. Chen, Z. Luo, J., **Xiao, X.**, & Sun, F.(2017). Assessment of COSMIC radio occultation water vapor profile. *Journal of National University of Defense Technology*, 39(3), 201–206.

Papers Submitted/Under Review

1. Zhu, J. Lu, Z. Wang, X. X. **Xiao, X.**, Xu, Y. Y. & Wen, L. (2019). Seismic events detected by InSight:diurnal freeze-thaw cycles of aqueous Mg-perchlorate on Mars. *Nature*

Geoscience [Submitted]

Papers in Preparation

2. **Xiao, X.**, Cheng, S., Wu, J. P., & Wen, L. (2019). Shallow seismic structure beneath China revealed by P wave polarization, Rayleigh wave ellipticity and receiver function.
1. Cheng, S., **Xiao, X.**, Wu, J. P., & Wen, L. (2019). Crustal stratification and preliminary structure in continental China from receiver function analysis.

Meeting Abstracts

3. **Xiao, X.**, Cheng S.& Wen, L. (2019). A Preliminary Crustal Shear Wave Velocity Model for the continental China. Abstract S11D-0376 presented at 2019 AGU Fall Meeting, San Francisco, CA, USA.
2. **Xiao, X.**, Cheng S.& Wen, L. (2018). Shallow seismic structure beneath China revealed by body-wave polarization and Rayleigh-wave ellipticity. Abstract S23C-0530 presented at 2018 AGU Fall Meeting, Washington, DC, USA.
1. **Xiao, X.**, & Wen, L. (2017). 3D Crust and Uppermost Mantle Structure beneath Tian Shan Region from ambient noise and earthquake surface waves. Abstract S51D-062 presented at 2017 AGU Fall Meeting, New Orleans, LA, USA.

Talks

1. **Xiao, X.** Shallow shear wave structure beneath China revealed by rayleigh wave ellipticity and receiver function. *School of Earth and Space Sciences, University of Science and Technology of China*, Hefei, China. Dec. 25, 2018. [**Student Seminar**]

Expertise & Skills

Languages	Mandarin Chinese, English.
Programming	C, Python, Fortran, Matlab, MPI, Perl, Shell, LaTeX.
Seismological Tools	SAC, GMT, SOD, ObsPy, TauP, CPS330.
Synthetics	Reflectivity Method, Finite Difference Method, Generalized Ray Theory.