Xiao Xiao

PhD Candicate in Geophysics

Laboratory of Seismology and Physics of Earth's Interior;
School of Earth and Space Sciences, University of Science and Technology of China

Room 1127, Research Building, No. 96, Jinzhai Road, Hefei, Anhui 230026, China

Email: xiaox17@mail.ustc.edu.cn | Website: http://home.ustc.edu.cn/~xiaox17

Education

2017 – present	**PhD Candicate** 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 undergradute graduates of WuHan University
2017	Outstanding undergradute 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

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.