Xiao Xiao

PhD Candicate in Geophysics

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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

7. Xu Y., Sun L., Hao J., Lu Z., **Xiao, X.**& Wen, L. (2019). Source properties of 17 June 2019 Changning earthquake (Mw 6.2), China and its aftershocks. Abstract S11G-0437 presented at 2019 AGU Fall Meeting, San Francisco, CA, USA.

6. Zhu J., Lu Z., Xu Y., **Xiao, X.**, Wang X. & Wen, L. (2019). Temperature-related Martian seismic events observed by InSight. Abstract DI51B-0025 presented at 2019 AGU Fall Meeting, San Francisco, CA, USA.

5. Mao S., Cheng S., **Xiao, X.**, Wu J. & Wen, L. (2019). A three-dimensional receiver function migration method imaging the crustal structure in Sichuan-Yunnan Region, Southwest China. Abstract S21D-0534 presented at 2019 AGU Fall Meeting, San Francisco, CA, USA.

4. Lu Z., **Xiao, X.**, Cheng S., Wang X., Zhu J. & Wen, L. (2019). Shallow Martian Seismic Velocity Structure Inferred from InSight's Seismic Signals Produced by Air Pressure Variations. Abstract DI51A-0015 presented at 2019 AGU Fall Meeting, San Francisco, CA, USA.

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, Shell, LaTeX.
Seismological Tools	SAC, GMT, SOD, ObsPy, TauP, CPS330.
Synthetics	Reflectivity Method, Modal summation, Generalized Ray Theory.