

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

3. Cheng, S. H., **Xiao, X.**, Wu, J. P., Wang, W. L., Sun, L., Wang, X. X. & Wen, L. X.(2021). Crustal Thickness and Vp/Vs Variations Beneath the Continental China Revealed by Receiver Function Analysis. *Geophysical Journal International*, 228(3), 1731-1749. doi:[10.1093/gji/ggab022](https://doi.org/10.1093/gji/ggab022)
2. **Xiao, X.**, Cheng, S. H., Wu, J. P., Wang, W. L., Sun, L., Wang, X. X. & Wen, L. X.(2021). Shallow seismic structure beneath China revealed by P wave polarization, Rayleigh wave ellipticity and receiver function. *Geophysical Journal International*, 225(2), 998-1019. doi:[10.1093/gji/ggab433](https://doi.org/10.1093/gji/ggab433)

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

3. Yao, J. Y., Wu, S. C., Li, T. J., Bai, Y. M., **Xiao, X.**, Hubbard, J., Wang, Y., He, Y. M., Thant, M., & Tong, P. (2022). Imaging the upper 10 km crustal shear-wave velocity structure of central Myanmar via a joint inversion of body-wave polarizations and receiver functions. *Seismological Research Letter* [Under Review]
2. **Xiao, X.**, Sun, L., Wang, X. X. & Wen, L. X.(2022). Simultaneous inversion for surface wave phase velocity and earthquake centroid parameters: methodology and application. *Journal of Geophysical Research: Solid Earth* [Under Review]
1. Mao, S., Cheng, S. H., **Xiao, X.**, Wu, J. P., Wang, W. L., Sun, L., Wang, X. X., & Wen, L. X.(2022). A three-dimensional adaptive receiver function migration method: (II) application to southeastern Tibetan plateau. *Journal of Geophysical Research: Solid Earth* [Submitted]

Papers in Preparation

1. **Xiao, X.**, Cheng, S. H., Wu, J. P., Wang, W. L., Sun, L., Wang, X. X. & Wen, L. X.(2023). Seismic structure of the crust and uppermost mantle beneath China from various seismic constraints.

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.