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Education

2017 – on **Ph.D Candidate**, University of Science and Technology of China, Hefei, China
2013 – 2017 **BSc in Geophysics**, WuHan University, Wuhan, China

Research Interests

- 📖 Structure and Evolution of the Earth's Lithosphere
- 📖 Theory and Applications of Seismic Tomography
- 📖 Observations of Earthquake Source

Awards & Honors



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

Professional Societies & Activities

2019 Student Organizer of “Weekly Graduate Student Seminar of Geophysics, USTC”
2017 Secretary of the Foundation Exchange Meeting of China Seismological Reference Model [🔗](#)
2017 – on Member of the American Geophysical Union (AGU)
2017 – on Research assistant and database manager for China Seismological Reference Model
2016 – on Contributor of GMT China Community [🔗](#)

Peer-reviewed Publications

*corresponding author

- 2022 **Xiao, X.***, Sun, L., Wang, X., & Wen, L. Simultaneous inversion for surface wave phase velocity and earthquake centroid parameters: methodology and application. *Journal of Geophysical Research: Solid Earth*. doi:[10.1029/2022JB024018](https://doi.org/10.1029/2022JB024018). 
- Yao, J., Wu, S., Li, T., Bai, Y., **Xiao, X.**, Hubbard, J., Wang, Y., He, Y., Thant, M., & Tong, P. 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*. doi:[10.1785/0220210292](https://doi.org/10.1785/0220210292).
- 2021 Cheng, S., **Xiao, X.**, Wu, J., Wang, W., Sun, L., Wang, X., & Wen, L. Crustal Thickness and Vp/Vs Variations Beneath the Continental China Revealed by Receiver Function Analysis. *Geophysical Journal International*. doi:[10.1093/gji/ggab022](https://doi.org/10.1093/gji/ggab022)
- Xiao, X.***, Cheng, S., Wu, J., Wang, W., Sun, L., Wang, X., & Wen, L. Shallow seismic structure beneath China revealed by P wave polarization, Rayleigh wave ellipticity and receiver function. *Geophysical Journal International*. doi:[10.1093/gji/ggab433](https://doi.org/10.1093/gji/ggab433). 

Papers Submitted/Under Review

- 2022 Mao, S., Cheng, S., **Xiao, X.**, Wu, J., Wang, W., Sun, L., Wang, X., & Wen, L. *Journal of Geophysical Research: Solid Earth* [Submitted]

Papers in Preparation

- on **Xiao, X.**, Cheng, S., Wu, J., Wang, W., Sun, L., Wang, X., & Wen, L. A Preliminary Crustal Shear Wave Velocity Model for the continental China.

Presentations

Invited & Keynotes

- 2018 **Xiao, X.**, Cheng, S., & Wen, L. Shallow shear wave structure beneath China revealed by rayleigh wave ellipticity and receiver function. *USTC*, Dec. 25, 2018. **[Student Seminar]**

Other Presentations


- 2022 **Xiao, X.**, Sun, L., Wang, X., & Wen, L. Simultaneous inversion for surface wave phase velocity and earthquake centroid parameters: methodology and application. *AGU 2022*, Chicago, IL, USA and *CGU 2022*, Online, CHN
- 2019 Xu, Y., Sun, L., Hao, J., Lu, Z., **Xiao, X.**, & Wen, L. Source properties of 17 June 2019 Changning earthquake (Mw 6.2), China and its aftershocks. *AGU 2019*, San Francisco, CA, USA.
- Zhu, J., Lu, Z., Xu, Y., **Xiao, X.**, Wang, X., & Wen, L. Temperature-related Martian seismic events observed by InSight. *AGU 2019*, San Francisco, CA, USA.
- Mao, S., Cheng, S., **Xiao, X.**, Wu, J., & Wen, L. A three-dimensional receiver function migration method imaging the crustal structure in Sichuan-Yunnan Region, Southwest China. *AGU 2019*, San Francisco, CA, USA.
- Lu, Z., **Xiao, X.**, Cheng, S., Wang, X., Zhu, J., & Wen, L. Shallow Martian Seismic Velocity Structure Inferred from InSight's Seismic Signals Produced by Air Pressure Variations. *AGU 2019*, San Francisco, CA, USA.
- Xiao, X.**, Cheng, S., & Wen, L. A Preliminary Crustal Shear Wave Velocity Model for the continental China. *AGU 2019*, San Francisco, CA, USA. 
- 2018 **Xiao, X.**, Cheng, S., & Wen, L. Shallow seismic structure beneath China revealed by body-wave polarization and Rayleigh-wave ellipticity. *AGU 2018*, Washington, DC, USA. 
- 2017 **Xiao, X.**, & Wen, L. 3D Crust and Uppermost Mantle Structure beneath Tian Shan Region from ambient noise and earthquake surface waves. *AGU 2017*, New Orleans, LA, USA. 

Expertise & Skills


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


Glossary

These are the meanings of the symbols used throughout this document:

 Link to a code repository on GitHub

 An ordinary link

 [Link to presentation slides](#)

 [Field of research](#)