

ORCID: [0000-0001-7247-561X](https://orcid.org/0000-0001-7247-561X)  
Email: [xiaox17@mail.ustc.edu.cn](mailto:xiaox17@mail.ustc.edu.cn)  
Github: [seispider](https://github.com/seispider)  
Website: [me.seispider.top](http://me.seispider.top)

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

## 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

- 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





---

<b>Languages</b>	: Mandarin Chinese, English.
<b>Programming</b>	: Python, Fortran, C, Matlab, Shell, LaTeX.
<b>Seismological Tools</b>	: SAC, GMT, SOD, ObsPy, TauP, CPS330.
<b>Synthetics</b>	: 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