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新加坡南洋理工大学
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任职经历

2023 – **博士后研究员**，南洋理工大学，新加坡 （合作导师：**童平** 副教授）

教育经历

2017 – 2023 **地球物理学博士**，中国科学技术大学，中国合肥 （导师：**温联星** 教授）

2013 – 2017 **地球物理学本科**，武汉大学，中国武汉

研究兴趣

- 地球岩石圈结构及其演化过程
- 地震学成像理论及其应用
- 地震学震源观测
- 地球动力学模拟

奖项及荣誉

2017 武汉大学优秀本科毕业生

2017 武汉大学优秀本科毕业论文

2017 – 2023 中国科学技术大学硕博士学业奖学金

学术服务

2023 – 中国区域地震学参考模型建设组成员

2017 中国区域地震学参考模型基金交流会秘书

2019 中国科学技术大学地球物理学生交流会组织者

2017 – 美国地球物理学会会员

2016 – GMT 中文社区贡献者

已发表论文

一作及通讯 *

2024 **Xiao X.***, Cheng S., Wu J., Wang W., Sun L., Wang X., Ma J., Tong Y., Liang X., Tian X., Li H., Chen Q., Yu S., & Wen L. CSRM-1.0: A China Seismological Reference Model. *Journal of Geophysical Research: Solid Earth*. doi:10.1029/2024JB029520

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.

2021 **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. (cited by 19)

合作

2022 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.

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

已提交/在审文章

2024 Cheng S., **Xiao X.**, Sun L., Wang W., Wu J., Wang X., Liang X.,Tian X., Li H., & Wen L. Three stages of plateau evolution manifested in present-day Tibetan Plateau. *Nature Communications* [*Under review*]

Wang X., **Xiao X.**, & Wen L. Paleo-ocean and Evolution of Mars Revealed by Seismic Crustal Stratigraphy. *Journal of Geophysical Research: Planets* [*Submitted*]

Chen J., Xu M., Bai Y., Wu S., **Xiao X.**, Hao S., Nagaso M., Yang H., & Tong P. Enhanced normal stress triggers supershear rupture of the 2023 Mw 7.8 Türkiye earthquake. *Nature Geoscience* [*Under review*]

Bai Y., Hao S., Xie J., Xu M., **Xiao X.**, Chen J., Chey C., Wang D., & Tong P. Geothermal Potential in Singapore: Insights from Passive Seismic Data at Sembawang Hot Spring. *Geophysical Research Letters* [*Submmited*]

待发表论文

Xiao X.*, Cheng S., Wu J., Wang W., Sun L., Wang X., Ma J., Tong Y., Liang X., Tian X., Li H., Chen Q., & Wen L. CSRD-1.0: A Seismological Reference Dataset around continental China.

Xiao X., Chen J., Hao S., Wang X., Nagaso M., Xu M., Bai Y., & Tong P.*, Tertiary Post-collisional Evolution of the Western Alps Orogen Driven by European Slab Breakoff

学术报告及海报

邀请报告

2018 **Xiao X.**, Cheng S., & Wen L. Shallow shear wave structure beneath China revealed by rayleigh wave ellipticity and receiver function. *USTC*, 12/25/2018. **[学生交流会]**

其他报告

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.

专业技能

语言	:	中文，英文
编程	:	Python, Fortran, C, Matlab, Shell, LaTeX.
地震学工具	:	SAC, GMT, SOD, ObsPy, TauP, CPS330.
地震学正演工具	:	Reflectivity Method, Modal Summation, Generalized Ray Theory, Finite Difference.

术语表

本文档内各符号含义如下：

- GitHub 仓库链接
- 普通链接
- 报告演示文档链接
- 研究领域