

BIOGRAPHICAL SKETCH

Mengjie Zheng

PhD Candidate

Institute of Geology and Geophysics,
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(a) Professional Preparation

China University of Mining and Technology Beijing, CN Solid Earth Geophysics B.A., 2018
Institute of Geology and Geophysics(CAS) Beijing, CN Solid Earth Geophysics Ph.D., 2023

(b) Appointments

May 2022 – present Visiting Scholar/Exchange Student, Stony Brook University, NY, US

(c) Products

Peer-reviewed Publications

1. **Zheng Mengjie**, Xu Tao, Lü Qingtian, Lin Jiyan, Huang Minfu, Bai Zhiming, Deng Yangfan, Zhang Yongqian and José Badal, 2022. Upper crustal structure beneath the Qin-Hang and Wuyishan metallogenic belts in Southeast China as revealed by a joint active and passive seismic experiment, *Geophysical Journal International*, 232(1), 190-200.
2. Hou Jue, Xu Tao, Lü Qingtian, **Zheng Mengjie** and Bai Zhiming, 2022. The fine upper crustal structure below the Qin-Hang and Wuyishan metallogenic belts revealed by double beamforming ambient noise tomography, *Chinese Journal of Geophysics*, 65(10), 3881-3899. (in Chinese)
3. **Zheng Mengjie**, Bai Zhiming, Xu Tao and José Badal, 2021. Upper crustal velocity structure of the Ailaoshan-Red River shear zone and its implication for Cenozoic tectonic-magmatic activity: Evidence from ambient noise tomography using short-period dense seismic array, *Physics of the Earth and Planetary Interiors*, 311, 106643.
4. Zhang Lu, Bai Zhiming, Xu Tao, Wu Zhenbo, Huang Minfu, Yu Guiping, Chen Junlei and **Zheng Mengjie**, 2020. Cenozoic magmatic activity and oblique uplifting of the Ailao Mountain: Evidence from a short-period dense seismic array. *Science China Earth Sciences*, 63: 1294–1308.
5. Zhang Minghui, Wu Zhenbo, Ma Lixue, Zheng Fan, Xie Tongtong, **Zheng Mengjie**, Hou Jue, Liu Youshan, Zhang Yongqian, Xu Tao and Bai Zhiming, 2022. Research progress of passive source detection technology based on short-period dense seismic array, *Progress in Geophysics*, 35(2): 495-511. (in Chinese)

Conference Abstracts

1. **Zheng Mengjie**, Shen Weisen, Sui Siyuan and Xu Tao, 2022. Mapping the tectonic boundaries using statistical data analysis and its preliminary application to the US and Antarctica, AGU Fall Meeting 2022.
2. **Zheng Mengjie**, Xu Tao, Lü Qingtian, Lin Jiyan, Huang Minfu, Bai Zhiming and Zhang Yongqian, 2021. Upper crustal architecture beneath Qin-Hang and Wuyishan metallogenic belts revealed by Wanzai-Yongchun active and passive source joint observation, CGU Meet-

ing 2021. (in Chinese)

3. **Zheng Mengjie**, Xu Tao, Bai Zhiming and Zhang Lu, 2020. Cenozoic tectonic and magmatic activity in Ailaoshan-Red River shear zone: a perspective from seismic ambient noise tomography using the short-period dense seismic array, CGU Meeting 2020. (in Chinese)

(d) Synergistic Activities

1. Honors and Awards during Ph.D
 - Nov 2022, China National Scholarship (Ph.D.)
 - May 2022-present, Scholarship winner of the International Cooperative Training Program of the University of Chinese Academy of Sciences
 - 2019-2020, Merit Student Of the University of Chinese Academy of Sciences
2. Selected Coursera
 - Applied Data Science with Python, University of Michigan, May 2020, ID: [6742A82C2BTY](#)
 - Applied Social Network Analysis in Python, University of Michigan, May 2020, ID: [TB5ECRRACSUL](#)
 - Machine Learning, Stanford University, August 2020, ID: [Q77F4XMX4VLW](#)
 - Neural Networks and Deep Learning, DeepLearning.AI, July 2020, ID: [9RT9RJ8KMYX9](#)
3. An online translation work of “[Seismic Ambient Noise](#)” with my friend
 - <http://carlolev.cn/SeismicAmbientNoise/>

(e) Collaborators & Other Affiliations

1. **Visiting-Scholar Host Advisor.** [Weisen Shen](#) (Stony Brook University)
2. **Graduate Advisors & Thesis Advisor.** [Tao Xu](#) (Institute of Geology and Geophysics, Chinese Academy of Sciences), [Zhiming Bai](#) (Institute of Geology and Geophysics, Chinese Academy of Sciences)