# Jian Xu

#### Ph.D. Student in Geophysics

School of Earth and Space Sciences, University of Science and Technology of China No.96, JinZhai Road, Baohe District, Hefei, China, 230026 xjustc@mail.ustc.edu.cn (+1) 514-815-9295

#### **EDUCATION**

Visiting	Ph.D. Student N	McGill University	2023/11 - present
Ph.D.	University of Science	and Technology of China	2021/9 - present
M.S.	University of Science	and Technology of China	2019/9 - 2021/6
B.S.	University of Science	and Technology of China	2015/9 - 2019/6

## **PUBLICATION**

- (1) Li, J.\*, Xu, J., Zhang, H.\*, Yang, W., Tan, Y., ... & Sun, J. (2023). High seismic velocity structures control moderate to strong induced earthquake behaviors by shale gas development. *Communications Earth & Environment*, 4(1), 188.
- (2) <u>Xu, J.</u>, Wang, K.\*, Li, J.\*, Gu, N., Ding, N., Qian, J., ... & Zhang, H. (2021). High resolution tomography of the Tanlu fault zone near Hefei with passive seismic and magnetotelluric linear array data. *Earthquake Science*, 34(1), 24-35.
- (3) <u>Xu, J.,</u> Li, J., Yang, W., Chen, G., Liu, Y., Harrington, R. M. et al. Shallow lingering and deep transient seismicity related to hydraulic fracturing in the Changning shale gas field, China. Under review.
- (4) Zhao, Y., Li, J.\*, Xu, J., Yao, H.\*, Zhu, G., Yang, H., ... & Lu, R. (2023). High-resolution velocity structure and seismogenic potential of strong earthquakes in the Bamei-Kangding segment of the Xianshuihe fault zone. *Science China Earth Sciences*, 66(9), 1960-1978.

### RESEARCH INTEREST

- (1) Source attributes of induced earthquakes
- (2) Velocity structure of subsurface reservoirs
- (3) Induced seismic hazard mitigation

## **TECHNIQUE SKILLS**

- (1) High-precision seismicity catalog development
- (2) Ambient noise tomography
- (3) Geomechanical modeling (COMSOL)
- (4) In-situ Vp/Vs estimation

## **AWARDS**

Outstanding Student Presentation Awards of China Geoscience Union			
	2023/10		
IPACES - Poster Presentation Award - 2 <sup>nd</sup> Prize	2023/07		
Outstanding Graduate Scholarship	2019/05		
National Encouragement Scholarship	2017/10		