# AQEEL ABBAS

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## Education

**Ph.D. (Seismology)** 2020-2024
Earth and Atmospheric Sciences (Expected)
The Chinese University of Hong Kong, Hong Kong S.A.R
Advisor: Hongfeng Yang

**PhD. International Mobility Program** 2023-2024
University of Bologna, Italy
Advisor: Luca De Siena

**MS. Marine Geology** 2017-2020
Ocean College, Zhejiang University, China
Advisor: Chunfeng Li

**B.S. Geophysics** 2013-2017
Quaid-i-Azam University, Islamabad Pakistan

## Teaching Experience

- Physics of the Earth (ESSC 3120), CUHK Fall 2021
- Solid Earth Dynamics (ESSC 2010), CUHK Spring 2022

## Honor and Award

1. Reaching Out Award 2023/24, The Chinese University of Hong Kong
2. Excellence Paper Award 2023, Earthquake Research Advances
3. Outstanding Student Award 2023, The Chinese University of Hong Kong
4. PhD International Mobility for Partnerships and Collaborations Award for 2023–24
5. Postgraduate Studentship Award, The Chinese University of Hong Kong
6. Type A, Zhejiang University Scholarship for Master studies

## Publications

**6. Aqeel Abbas**, Hongfeng Yang, Jinping Zi. “Signatures of congregated injected fluid in Weiyuan Shale Gas Field, Sichuan, China.” (In prep)

**5.** Yutao Liu,Yuquan Wu, Gang Li, **Aqeel Abbas**, and Taikun Shi (2024). "Submarine cable detection using an end-to-end neural network-based magnetic data inversion." Journal of Geophysics and Engineering, https://doi.org/10.1093/jge/gxae045

**4. Abbas, A.,** Hongfeng Yang, Jinping Zi (2024). “Deciphering the low-frequency seismic signals in the Weiyuan shale gas field: Implications for reservoir and structural heterogeneity”. Geophys. J. Int., https://doi.org/10.1093/gji/ggae032

**3. Abbas, A.,** Zhu, G., Zi, J., Chen, H., & Yang, H. (2023). “Evaluating and correcting short-term clock drift in data from temporary seismic deployments”. *Earthquake Research Advances*, 100199. https://doi.org/10.1016/j.eqrea.2022.100199

**2.** Liu, Yutao, Chun-Feng Li, Yonglin Wen, Zewei Yao, Xiaoli Wan, Xuelin Qiu, Jia-zheng Zhang, **Aqeel Abbas,** Xi Peng, and Gang Li. "Mantle serpentinization beneath a failed rift and post-spreading magmatism in the north-eastern South China Sea margin." *Geophysical Journal International* 225, no. 2 (2021): 811-828. https://doi.org/10.1093/gji/ggab006

**1**. Li, Yaqing, **Aqeel Abbas**, Chun-Feng Li, Tienan Sun, Sergio Zlotnik, Taoran Song, Lulu Zhang, Zewei Yao, and Yongjian Yao. "Numerical modeling of failed rifts in the northern South China Sea margin: implications for continental rifting and breakup." Journal of Asian Earth Sciences (2020). https://doi.org/10.1016/j.jseaes.2020.104402

## Conferences

**4. Abbas, A.,** Yang, H., & Zi Jinping, (2023, September). Deciphering the low-frequency seismic signals in the Weiyuan shale gas field: Implications for reservoir and structural heterogeneity. Habitable Earth – Geoscience for Sustainability

**3. Abbas, A.,** Yang, H., & Zi Jinping, (2023, July). Signatures of congregated injected fluid in Weiyuan Shale Gas Field, Sichuan, China. Oral Presentation at IUGG Meeting https://doi.org/10.57757/IUGG23-5038

**2.** Yang, H., Zhu, G., Chen, H., and **Abbas, A.:** Outcome and lessons from the Southern Mariana Ocean Bottom Seismic Experiments, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-10225, https://doi.org/10.5194/egusphere-egu23-10225

**1. Abbas, A**., & Yang, H. (2021, December). Evaluating and correcting short-term clock drift in data from temporary seismic deployments. In *AGU Fall Meeting Abstracts* https://ui.adsabs.harvard.edu/abs/2021AGUFM.S25E0297A/abstract

## Research Skills

Language: Python, Bash, GMT, Julia (basic)

Tools: Paraview, CorelDraw (for schematic research diagrams)

## Services

**3.** A part of developing team of project "Developing hands-on micro modules of seismological data processing", The Chinese University of Hong Kong

**2.** Peer Listener in UrHeard Programme 2022/23, The Chinese University of Hong Kong

**1.** Green Walker Award 2021/22 , The Chinese University of Hong Kong