

# AQEEL ABBAS

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## Academic Qualifications

- 08/2020-Present:     **Ph.D.** Earth and Atmospheric Sciences  
The Chinese University of Hong Kong, Hong Kong S.A.R
- 09/2017-04/2020     **MS.** Marine Geology  
Ocean College, Zhejiang University, China
- 09/2013-07/2017     **B.S.** Geophysics  
Quaid-i-Azam University, Islamabad Pakistan

## Research Interests

- Induced Seismicity, Seismic Attenuation, Seismic hazard and risks assessment, Synthetic waveforms modelling
- Marine Geology & geophysics, Crustal Structure by using Ocean Bottom Seismic data

## Research Work

- 2022-onward.         Seismic Attenuation and Waveform Analysis associated with fluid-injected and structural heterogeneities in Weiyuan Shale Gas Field, Sichuan China.
- 2021-2022           Evaluating and correcting short-term clock drifts in Ocean bottom seismometers and Land stations

## Research Output:

### Research Article

4. **Aqeel Abbas**, Hongfeng Yang, Jinping Zi. Deciphering the low-frequency seismic signals in the Weiyuan shale gas field: Implications for reservoir and structural heterogeneity. [[Geophys. J. Int.](#), in revisions]

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.
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.
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)

#### Conference Abstract:

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. Accepted for Oral Presentation at 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

1. Language: Python, Bash, Linux, OBSpy, SAC, GMT
2. Tools: CorelDraw (for schematic research diagrams)

## **Awards**

1. Outstanding Student Award 2023, The Chinese University of Hong Kong
2. PhD International Mobility for Partnerships and Collaborations Award for 2023–24
3. Postgraduate Studentship Award, The Chinese University of Hong Kong
4. Best Teacher Assistant (TA) award, The Chinese University of Hong Kong
5. Type A, Zhejiang University Scholarship for Master studies

## **Social Work**

1. Peer Listener in UrHeard Programme 2022/23, The Chinese University of Hong Kong
2. Green Walker Award 2021/22 , The Chinese University of Hong Kong