

# AQEEL ABBAS

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Current Residents: Hong Kong

## Research Interests

- Marine Geology & geophysics
- Geophysical data acquisition, Processing and interpretation
- Crustal Structure by using Ocean Bottom Seismic data
- Seismic Tomography

## Academic Qualifications

**MS** Marine Geology Sep 2017- July 2020 Zhejiang University, China

**B.S.** Geophysics Sep 2013- June 2017 Quaid-I-Azam University, Islamabad

## Research Work

### MS Marine Geology:

Continent Oceanic Transition Zone of South China Sea with Ocean Bottom Seismic (OBS)

- Crustal Structure by using P wave in Northwestern South China Sea
- Crustal Structure by using S wave in Northeastern South China Sea

### BS Geophysics:

2D seismic data interpretation with AVO analysis and Petrophysical studies

## Research Experience:

### Research Article

1. Li, Y., **Abbas, A.**, Li, C. F., Sun, T., Zlotnik, S., Song, T., ... & Yao, Y. (2020). Numerical modeling of failed rifts in the northern South China Sea margin: implications for continental rifting and breakup. *Journal of Asian Earth Sciences*, 199, 104402.

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 northeastern South China Sea margin." *Geophysical Journal International* 225, no. 2 (2021): 811-828.

#### **Conference Abstract:**

1. **Abbas, Aqeel**, Chun-Feng Li, Xiaoli Wan, Zhen Sun, Wenai Hou, and Akinrinade Opeyemi. "Nature of Transitional Crust in Northern Margin of the South China Sea." In *AGU Fall Meeting Abstracts*, vol. 2019, pp. T33G-0444. 2019.

#### **Major Subjects**

- Continental Margin and Seafloor Tectonics
- Marine Geology and Geophysical Techniques
- Basic Marine Geology
- Earthquake seismology and computational seismology
- Seismic data acquisition, processing & interpretation

#### **Skills**

- Seismic Data Processing (clock drift and position correction)
- Phase Identifications
- RayInvr (Forward modeling)
- Tomo2D (Inversion)
- Seismic data interpretation

#### **Honors & Awards:**

- Zhejiang University (Type A) Scholarship Award (2017-2020)
- Student member: Society of Exploration Geophysicists (2016-2022)
- Award winner of Prime Minister Laptop Scheme , Pakistan
- Student member: European Association of Geoscientists and Engineers (EAGE)

## Software & Language

- SMT kingdom Software Skill Level (Advance)
- Seismic Unix Skill Level (Advance)
- Fedora Skill Level (Advance)
- Generic Mapping Tools (GMT) Skill Level (Advance)
- Python Skill Level (Intermediate)
- MATLAB® Software Skill Level (Basic)

## Memberships

- Society of Exploration Geophysicists (SEG)
- European Associations of Geoscientists & Engineers (EAGE)
- American Association of Petroleum Geologists (AAPG)

## Field Experience

Geological Field trip to Khewra (Salt Range Thrust)

- For acquiring data and understanding the theory of Geology
- For observation of faults, joints, folds and fracture in the region and their cause

Geological Field trip to Abbottabad, Balakot

- Study of Rock Units of Quaternary to Pre-Cambrian Age.
- Fault Zone Observations (Earthquake 2005 in Pakistan)
- To study the structures, lithology, depositional environments.

## Workshops & Seminars

- South China Sea IODP Expeditions 367,368 and 368X Science (2<sup>nd</sup>) Post Cruise Meeting in Xian (Sep 8-10 2019)
- Lectures on Physics and Mathematics behind Plate tectonics and Continental Dynamics by Prof. Amos Nur (Stanford University); Tsinghua University, Beijing
- Spring Academic Lecture on “Tectonic Process at Convergent Plate Margin: Prospective from Geology, Seismology and Geodesy,” Chinese Academy of Geological Sciences, Beijing

- 4 days “Geodynamical Modeling Course” by Prof. Sergio Zlotnik (Universitat de Barcelona, Barcelona, Spain) at Ocean College, Zhejiang University.
- Joint Summer School, the Chinese University of Hong Kong (CUHK), Institut Teknologi Bandung (ITB), Zhejiang University (ZJU), Second Institute of Oceanography (SOA), at Ocean College Zhoushan (2018/7/13-20)
- Student Summer Workshop & Poster presentation in Earth and Atmospheric Sciences at the Chinese University of Hong Kong, July 9-11, 2019

#### **Extracurricular activities**

- International student union, Ocean College, Zhejiang University China
- Quaidian Blood Donor Society (QBDS), Quaid-i-Azam University, Pakistan
- All Pakistani Overseas Organization International, people Republic of China