

Zohaib Naseer

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I am Geophysicist with expertise in seismic imaging, inversion, and geothermal system evaluation. Skilled in integrating AI/ML, remote sensing, and petrophysical analysis for subsurface characterization, with multiple peer-reviewed publications. I recognized academic excellence and collaborative research and am currently seeking opportunities to contribute expertise in geophysics and energy exploration.

EDUCATION

University of Houston (UH), Texas, USA

May 2028 (Expected)

Ph.D. in Geophysics and Seismology (Advisor: Dr. Hua Wei Zhou)

Bahria University, Islamabad, Pakistan

March 2022

MS in Geophysics

CGPA: 3.83/4.0 (Gold Medal)

Thesis: Comparing Bayesian and Neural Network Supported Litho-Fluid Prediction and Inversion Analysis from Seismic Data of Mehar Block, Lower Indus Basin, Pakistan.

Bahria University, Islamabad, Pakistan

January 2019

BS in Geophysics

CGPA: 2.88/4.0

Thesis: Hydrocarbon Prospect Evaluation Study of Joyamair area Upper Indus Basin Pakistan.

EXPERIENCE

Department of Earth and Environment Sciences, Bahria University, Pakistan (Research Associate) *Feb 2023 – Aug 2025*

- Working on seismic interpretation, inversion, rock physics and geothermal evaluation, along with that published peer reviewed paper through national and international collaborations.
- I also provided geophysical software training to graduate and undergraduate students.

Oil and Gas Development Company Limited (Exploration Geophysics Intern)

Oct 2019 – Dec 2019

- Evaluation of seismic data interpretation to identify the subsurface structure. Learning seismic processing and interpreting techniques. Interpretation of seismic data with the help of software techniques and making of time and depth contour maps and volumetric estimation for reservoir formation.

Schlumberger (SIS Intern)

June 2019 – July 2019

- Learning 3D seismic data interpretation skills in Petrel software. Which includes loading of data, QC of Seismic and well data, marking of horizon and faults and making of subsurface contour maps.

Pakistan Metrological Department (National Seismic Monitoring Center, Intern)

Aug 2017-Sep 2017

- Learning great experience by analysis and interpretation of the seismic earthquake data at Scream software. Applying filter to separate signal and noise. Separation of P and S waves and Calculation of S and P time and estimation of depth, magnitude, and location of epi center.

AAPG Imperial Barrel Award, Bahria University (Team Captain)

Nov 2023 – May 2024

- Captained the team that performed Hydrocarbon prospect evaluation of Penobscot area Scotian Basin, Canada, identified reservoir interval and performed a Neural Network to show the reservoir properties on seismic section.

SKILLS

Analytical: Seismic interpretation, seismic attribute analysis, seismic inversion analysis, petrophysics analysis, rock physics, reservoir characterization, appraisal and development studies, geothermal resource assessment, Machine learning.

Interpersonal Skill: Teams work, communicate effectively, handle research or industry environments and adaptability

Software: IHS Kingdom™ Suite, Petrel™, Opendtect™, Hampson Russell™, Powerlog™ Techlog™, Geographix 2019, Surfer, Arc GIS and Adobe Illustrator

Programming Language: Python.

AWARDS AND HONORS

Scholarships: Merit scholarship in MS Geophysics (2021), Presidential Fellowships from UH (2025-2027).

Honors: Magna Cum Lauda Honors in MS Geophysics

CERTIFICATIONS

- Certificate of Summer School on Remote Sensing & GISc.
- Certificate of Machine Learning for all (Coursera).
- Certificate of Completion of Python Programing (Machine Learning +).
- Certificate of Participation of Workshop in Data Science and Machine Learning held in Bahria University, Islamabad.
- Certification of recognition for organizing in 4th Annual Technical Workshop (ATW 2018) of Hydrocarbon Exploration Techniques.

PUBLICATION AND PRESENTATION

***2 publications** (https://scholar.google.com/citations?hl=en&authuser=1&user=nLj_ToYAAAAJ), **1** abstract.