

# Muhammad Tayyab S/O Dr Qari Naseer Ahmed

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## Career Objective

To acquire a challenging and permanent position in an organization, where I can put my skill-set to use, enhance my knowledge and contribute to the development and growth of that organization and country.

## Professional Experience

- Research Associate in Solid Earth Geophysics domains at Center for Earthquake Studies (CES), National Center for Physics (NCP), Quaid-I-Azam University Campus, Bharakahu, Islamabad. From 1<sup>st</sup> September, 2021 to present.
- Research Associate (Development of National seismic catalogue for Earthquake prediction and detections) from 1st March 2021 to 31st August 2021 at National Center for Artificial Intelligence (NCAI)- University of Engineering and Technology, Peshawar.
- Post-Doctoral Research Associate at National Center for Physics (NCP), Quaid-I-Azam University Campus, Islamabad from 28<sup>th</sup> January, 2020 to 26<sup>th</sup> February, 2021.
- Four years of official experience of research work during PhD (Earth Sciences) with emphasis on the development of stratigraphic plays within the clastic and carbonates petroleum systems. An HEC official letter will be provided on demand.
- Research Geoscientist (Geophysical Seismic Data Interpretation Labs) from Oct 2016 to Nov 2018.
- Affiliated with Exploration department at KUFPEC Company during my Ph.D research from 2013-2016.
- Carried out three major Electrical Resistivity Tomography system-based electrical resistivity surveys using the Schlumberger configurations via Terrameter tool for water and minerals explorations through the Northern and Southern regions with a focus on the high mountain working experience and nearshore zone of Arabian sea, Pakistan 2011-2012.
- One year internship in the Directorate General of Oil, (2010-2011).

## Education

- **Post-Doctorate (Earth Sciences)(2021)**
- **Title:** Reservoir characterization for Lower-Cretaceous fluid system in Southwest Pakistan based on seismic spectrum decomposition and static wedge modelling (2021)
- **Doctor of Philosophy (PhD)** in Earth Sciences (2019)
- **Title:** Continuous Wavelet Transforms of Spectral Decomposition For Fluvial Reservoir Analysis of Miano Gas Field, Indus Platform, Pakistan.
- **Master of Philosophy (M.Phil)** in Geophysics (2011).
- **Master of Science (M.Sc)** in Geophysics (2009).

## Refereed Publications

- Naseer, M. T., Naseem, S., & Shah, M. A. (2022). Simulating the stratigraphy of meandering channels and point bars of Cretaceous system using spectral decomposition tool, Southwest Pakistan: Implications for petroleum exploration. *Journal of Petroleum Science and Engineering*, 110201. (I.F: 4.346).
- Naseer, M. T. (2021a). Delineating the shallow-marine stratigraphic traps of Lower-Cretaceous incised valley sedimentation, Pakistan using post-stack seismic colour inversion. *Geological Journal*. I.F (1.595).
- Naseer, M. T., Asim, S., Shah, M. A., & Awais, M. (2021b). Reservoir characterization for Lower-Cretaceous fluid system in Southwest Pakistan based on seismic spectrum decomposition and static wedge modelling. *Energy Reports*, 7, 1306-1325.
- Naseer, M. T. (2021c). Spectral decomposition' application for stratigraphic-based quantitative controls on Lower-Cretaceous deltaic systems, Pakistan: Significances for hydrocarbon exploration. *Marine and Petroleum Geology*, 127, 104978. I.F (4.348).
- Naseer, M. T., Asim, S., Khalid, P., & Khalid, R. H. (2021d). Spectral decomposition application for appraisal of Miocene lowstand prograding wedge play, Indus Offshore, Pakistan: Implications for petroleum exploration. *Marine and Petroleum Geology*, 105142. I.F (4.348).
- Naseer, M.T., (2020) "Seismic attributes and reservoir simulation' application to image the shallow-marine reservoirs of Middle-Eocene carbonates, SW Pakistan" *Journal of Petroleum Science and Engineering*. 195, 107711. (I.F. 4.346).
- Naseer, M.T., and Asim, S., (2018c). Characterization of shallow-marine reservoirs of Lower Eocene carbonates, Pakistan: Continuous wavelet transforms-based spectral decomposition. *Journal of Natural Gas Science and Engineering* (I.F. 4.965) DOI:10.1016/j.jngse.2018.06.010.

## Professional Software Skills

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- Seismic Micro Technology (SMT)-Kingdom: Seismic Interpretation Platform
- Seismic wavelet analysis to resolve the thin-bedded reservoirs.
- Reservoir quality analysis using the wedge modelling with the emphasis of sequence stratigraphic reflection configuration, imaging for possible detection of stratigraphic traps.
- Instantaneous spectral porosity modelling for prediction of reservoir quality
- Instantaneous spectral thickness modelling for prediction of the future well location.
- Instantaneous spectral density modelling for the discrimination of lithologies.
- Instantaneous spectral VP/vs ratio modelling for prediction of fluids within the stratigraphic traps.
- Geostatistical analyses of seismic and well logs attribute for property prediction.
- Hands-on practical experience on coloured inversion for porous lithology correlation within the proven and undiscovered stratigraphic traps.

## Conferences and short courses

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- Attended one week course on “**CONTAMINANT HYDROGEOLOGY**” at the Department of Earth Sciences, Quaid-I-Azam University, Islamabad from 12<sup>th</sup> to 19<sup>th</sup> November, 2008.
- Certificate of appreciation for contributing as a guest speaker one day Seminar on Exploration Geophysics.
- Rock Physics modeling; attribute application and seismic inversion study in Miano, Lower Indus Basin of Pakistan at Near-Surface Asia Pacific Conference, Waikoloa, Hawaii, 7-10 July 2015. DOI: 10.1190/nsapc2015-124

## Editorial Services

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- **Academic Editor** : Geofluids
- **Chief Guest Editor** : Geofluids
- **Reviewer**: Marine Geophysical researches, American Association of Petroleum geologist, Journal of Petroleum Science and Engineering, Arabian Journal of Geosciences.

## Professional Networks

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- ResearchgateAccount: [https://www.researchgate.net/profile/Muhammad-Naseer\\_3?ev=hdr\\_xprf&\\_sg=WP98uhX-ULOxqzuBnjHVfmv9AMYEJi98vut2PvoFJOo96EhMQ39j8uonpTiuPXsm9VPqCw9Xp9dEtVTFUYnDDc](https://www.researchgate.net/profile/Muhammad-Naseer_3?ev=hdr_xprf&_sg=WP98uhX-ULOxqzuBnjHVfmv9AMYEJi98vut2PvoFJOo96EhMQ39j8uonpTiuPXsm9VPqCw9Xp9dEtVTFUYnDDc)
- LinkedIn: [https://www.linkedin.com/in/muhammad-tayyab-naseer61791219/?msgControlName=reply\\_to\\_sender&msgConversationId=2-NWViYTE3ODctMjQ2Zi01NWUwLTk4MjItN2I0YWJjODkxOGQ4XzAwMA%3D%3D&msgOverlay=true](https://www.linkedin.com/in/muhammad-tayyab-naseer61791219/?msgControlName=reply_to_sender&msgConversationId=2-NWViYTE3ODctMjQ2Zi01NWUwLTk4MjItN2I0YWJjODkxOGQ4XzAwMA%3D%3D&msgOverlay=true)

## Additional Skills

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- Highly motivated with a strong commitment to increase my experience and expand my skills for the growth of the research and development organization
- Very professional and a team player
- Capable of working with diverse people of different cultures and backgrounds
- Good oral, written and presentation communication skills.
- Very much keen to improve my skills and capabilities in the energy resources exploration tools

## Reference

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- Dr Mrs Shazia Asim. ( Ph.D Supervisor)  
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Associate Professor (Geophysics).  
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