

NOWRAD ALI

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Education	Name of Institution	Subject	Qualifications Awarded	Date of Award
	Department of Geology University of Peshawar	Geology	BS	2010
	National Center of Excellence in Geology University of Peshawar	Geology (Tectono- stratigraphy)	MS	2018
	<p>BS Thesis Title: Geological mapping and structural analysis of Kallar Kahar Area, District Chakwal, Punjab, Pakistan</p> <p>MS Thesis Title: Sedimentological investigations of the Upper Paleogene strata northern Sulaiman Range, Pakistan, Implications for early Himalayan evolution.</p>			
Experience	<ul style="list-style-type: none">• Appointed as a regular Lecturer at the Department of Geology, University of Peshawar, 5th December 2016 till date.• Appointment as a Lecturer (contract) in the Department of Geology, UOP. 2nd, September 2013 till date.• Appointment as a part time lecturer in the Department of Geology, UOP. September 2012 to June 2013.• Attachment as a Research Assistant in SRMIHP (Source Rock Mapping and Investigation for Hydrocarbon Potential in FATA) at National Center of Excellence in Geology, UOP. October 2011 to September 2012.			
Thesis Supervisions	<p>Supervised around 35 BS thesis groups on different research topics like Provenance studies, Paleogene larger benthic biostratigraphy, carbonates and sandstones depositional environments, diagenesis and reservoir characterization, neotectonics etc.</p> <p>Current Academic Engagements: Working with BS and MS students on the provenance and depositional environments of Proterozoic, Paleozoic and Eocene siliciclastic units of the Lesser Himalayas.</p>			
Courses Taught	<p>BS Level: Sedimentology, Structural Geology, Sequence Stratigraphy, Mineralogy, Optical Mineralogy, Petrology (Igneous, Sedimentary and Metamorphic), Sedimentary Depositional Systems.</p>			

	MS Level: Sedimentary Geology, Tectonics of North Pakistan (Himalayas), Clastic Sedimentology, Techniques in Field Geology
Research Interest	<p>I am interested in using Tertiary sedimentary record of the Indus Basin as an archive of the early Himalayan evolution and its related effect over the quaternary climate and drainage development. I utilize the sedimentary record to understand the tectonic controls over the development of sedimentary basins.</p> <p>I am also interested in using geological field, seismicity, geomorphometric indices and InSAR data to decipher the kinematics and neotectonic activity of the active faults in the evolving orogenic belts and their effect over the landscape evolution.</p>
Publications	<p>Researchgate link: https://www.researchgate.net/profile/Nowrad_Ali</p> <ol style="list-style-type: none"> Ozcan, E., Yücel, A. O., Erbay, S., Less, G., Kaygili, S., Ali, N., and Hanif, M. Reticulate Nummulites (<i>N. fabianii</i> Linage) and Age of the Pellatispira-Beds of the Drazinda Formation, Sulaiman Range, Pakistan. <i>Int J Paleobiol and Paleontol</i> 2019, 2 (1): 000105. Özcan, E., Saraswati, P. K., Yücel, A. O., Ali, N., Hanif, M., Bartonian orthophragminids from the Fulra Limestone (Kutch, W India) and coeval units in Sulaiman Range, Pakistan: a synthesis of shallow benthic zone (SBZ) 17 for the Indian Subcontinent. <i>Geodinamica acta</i>, 2018. DOI. 10.1080/09853111.2018.1443654. Ali, N., Özcan, E., Yücel, A. O., Hanif, M., Hashmi, S. I., Ullah, F., Rizwan, M., Pignatti, J. Bartonian orthophragminids with new endemic species from the Pirkoh and Drazinda formations in the Sulaiman Range, Indus Basin, Pakistan. <i>Geodinamica acta</i>, 2018. DOI. 10.1080/09853111.2017.1419676. Özcan, E., Ali, N., Hanif, M., Hashmi, S. I., Khan, A., Yucel, A. U., Abbasi, I. A. 2016. A new Priabonian Heterostegina from the Eastern Tethys (Sulaiman Fold Belt, West Pakistan): Implications for the development of Eastern Tethyan Heterostegines and their paleobiogeography. <i>Journal of Foraminiferal Research</i>, v. 46, no. 4, p. 393–408. Özcan, E., Saraswati, P. K., Hanif, M., Ali, N., 2016. Orthophragminids with new axial thickening structures from the Bartonian of the Indian subcontinent. <i>Geologica Acta</i>. Vol. 14, 261-282. DOI: 10.1344/GeologicaActa2016.14.3.4. Özcan, E., Hohenegger, J., Yucel, A. U., Kaygili, S., Ali, N., Hanif, M. <i>Baculogypsina sulaimanensis</i> n. Sp. (calcarinidae) from the Priabonian of Sulaiman Range, Pakistan: an ancestor for the recent <i>Baculogypsina sphaerulata</i>. (Accepted in <i>Journal of Foraminiferal Research</i>). Khan, I., Ahmad, S., Arif, M., Ali, N. 2016. Impact of diagenetic and depositional fabric on reservoir quality; a synthesis from Late Cretaceous and Early Paleocene sandstones in Eastern Sulaiman Range, Pakistan. <i>Arab J Geosci</i>. 9:388 DOI 10.1007/s12517-016-2372-3. Khan, M., Arif, M., Ali, N., Yaseen, M., Ahmed, A., Siyar, S., M. 2016. Petrophysical parameters and modelling of the Eocene reservoirs in the Qadirpur area, central Indus Basin, Pakistan: Implications from well log analysis. <i>Arab J Geosci</i>. 9:425. DOI 10.1007/s12517-016-2373-2.

	<ol style="list-style-type: none"> 9. Saddique, B. Ali, N., Jan, I. U., Hanif, M., Shah, S. A., Saleem, I., Faizi, M. M., Arafat, M. Y. 2016. Petrophysical analysis of the reservoir intervals in Kahi-01 well, Kohat Sub-Basin, Pakistan. JHES, 2016. 49 (1), 30-40. 10. Örcan, E., Hanif, M., Ali, N., Yücel, O. 2015. Reassessment of orthophragmines at type-locality of <i>Discocyclina ranikotensis</i> Davies, 1927, Early Eocene 'upper Ranikot beds', Thal, Pakistan: a paleobiogeographic synthesis (Geodynamica Acta, DOI:10.1080/09853111.2015.1026795). 11. Jamal, T., Azhar, R., Haneef, M., Saboor, A., Ali, N., Swati, M. A. F., Uddin, Z. Microfacies and Diagenesis of Chorgali Formation, Buchal Kalan area, Chakwal, Pakistan. JHES, 2015. 48 (1), 14-25. 12. Saboor, A., Ali, F., Ahmad, S., Haneef, M., Hanif, M., Imraz, M., Ali, N., Swati, M. A. F., Zahid, M., Sadiq, I. A preliminary account of the middle Jurassic plays in the Najafpur Village, southeastern Hazara, Khyber Pakhtunkhwa, Pakistan JHES, 2015. 48 (1), 41-49. 13. Hashmi, S. I., Jan, I. U., Khan, S., Ali, N. Depositional, diagenetic and sequence stratigraphic controls on the reservoir potential of the Cretaceous Chichali and Lumshiwai formations, Nizampur Basin, Pakistan. 2018. JHES. V. 51, 2A, 2018. 44-65. 14. Babar, N., Mohibullah, M., Kasi, A. K., Ali, N., Khan, A. Foraminiferal Biostratigraphy of the Eocene Kirthar Formation, western Sulaiman Fold-Thrust Belt, Balochistan, Pakistan. 2018. JHES. V. 51, 2A, 2018. 66-77. 15. Anjum, M. N., Ali, N., Rehman, Z. U., Ghayas, M., Ahmad, W. Rock Aggregate Potential of Limestone Units in the Khyber Formation, Pakistan. Int. J. Econ. Environ. Geol. Vol. 9 (4) 26-33, 2018. 16. Hanif, M., Sabba, M., Ali, N., Rahman, M., U., Ali, F., Swati, M., A., F. 2020. A multi-proxy based high-resolution stratigraphical analysis of the possible Palaeocene–Eocene boundary interval, Salt Range, Pakistan. Geological Journal. DOI: 10.1002/gj. 3912. 17. Rizwan, M., Hanif, M., Ali, N., Rahman, M., U. 2020. Microfacies analysis and depositional environments of the Upper Cretaceous Fort Munro Formation in the Rakhi Nala Section, Sulaiman range, Pakistan. Carbonates and Evaporites. DOI: 10.1007/s13146-020-00639-9.
<p>Abstracts</p>	<ol style="list-style-type: none"> 1. Structural Geology of Kallar Kahar area, district Chakwal, Punjab Pakistan, International conference Conventional and unconventional Hydrocarbon Potential of Pakistan, Prospects and Stratigies. (Main Author). 2. Source rock potential of the Jurassic to Eocene strata northern and eastern Sulaiman Ranges, International conference Conventional and unconventional Hydrocarbon Potential of Pakistan, Prospects and Stratigies. (Main Author). 3. Facies and Diagenetic analysis of Pab Sandstone in Rakhi Nala Section, Eastern Sulaiman Fold and Thrust Belt: Implication for Provenance and Hydrocarbon Reservoir Characterization. Earth Sciences Pakistan, 2014 (ESP, 2014) (Co-Author). 4. Integrated Study of Microfacies, XRD Supported by SEM, Wire line Logs of Jutana Dolomite at Khewra Gorge, Salt Range Punjab, Pakistan. (ESP, 2014) (Co-Author).

	<ol style="list-style-type: none"> 5. Reservoir Characterization and Sequence Stratigraphic interpretation of well log data of Turkwal Deep-01, Eastern Potwar, Punjab, Pakistan. (ESP, 2014) (Co-Author). 6. Application of Well Log Analysis to assess the Petrophysical Parameters and Modelling of the Eocene Reservoirs in the Qadirpur Area, Central Indus Basin, Pakistan. (ESP, 2014) (Co-Author). 7. Petrophysical Analysis of the Reservoir Intervals in Kahi-01, Kohat Sub-Basin Basin, Pakistan. (ESP, 2014) (Co-Author). 8. Lithostructural insights Into Khairabad Area to evaluate its economic potential, Western Salt Range, Pakistan. (ESP, 2014) (Co-Author). 9. Integrated Sequence stratigraphic framework of the Mesozoic to Miocene Sediments, Janakor Valley FR Peshawar, NW Pakistan. (ESP, 2014) (Co-Author). 10. Facies and Structural Analysis of the Janakor Valley, FR Peshawar, NW Pakistan. (ESP, 2014) (Co-Author). 11. Reservoir appraisal in the rocks encountered in the southeastern Punjab Platform, Central Indus Basin, Pakistan (ESP, 2016) (Co-Author). 12. Integrating depositional facies and sequence stratigraphy in characterizing reservoirs potential of Chichali and Lumshival formations, Northwest Indus Basin, Pakistan (ESP, 2016) (Co-Author). 13. Microfacies analysis and diagenetic settings of the Samana Suk Formation, Khairabad section, western Salt Range, Pakistan (ESP, 2016) (Co-Author). 14. Reservoir properties assessment of Jurassic to Eocene strata of Zindapir Anticline, Sulaiman Range, Pakistan: Using well data of Zinpir-01 and Savi Raga-01 well (ESP, 2016) (Co-Author). 15. Petrophysical analysis of rock drilled in sumari-01 well to evaluate their reservoir potential, Kohat, KP, Pakistan (ESP, 2016) (Co-Author). 16. Outcrop studies, an analogues of the diagenetic and depositional fabric of subsurface reservoirs: a synthesis from Late Cretaceous and Early Paleocene sandstones in eastern Sulaiman Range, Pakistan (ESP, 2016) (Co-Author). 17. Reservoir potential of the rocks encountered in the Kal-01 and Rajian-01, Eastern Potwar Basin, Pakistan (ESP, 2016) (Co-Author). 18. Petrophysical characterization of the Cretaceous-Paleocene succession, Tal-Block, Kohat sub-basin, North West Pakistan (ESP, 2016) (Co-Author). 19. Paleoenvironments and depositional sequence stratigraphy of the early Jurassic Datta Formation, Chichali Nala, Surghar Range, Pakistan (ESP, 2016) (Co-Author). 20. Utilization of Wire line logs for investigation of promising reservoir formations in Eastern Potowar, Punjab, Pakistan (ESP, 2016) (Co-Author).
<p>Other accomplishments</p>	<p>Computer skills:</p> <ul style="list-style-type: none"> • Arc GIS 10.7.1 • Midland Valley's Move (2D, 3D modelling and cross section restoration) • Global Mapper and Google Earth • Geo-Orient, Dips, GeoRose

	<ul style="list-style-type: none"> • Grapher • Surfer • Coral Draw • WinXpow, JDX3500, Match (XRD Interpretation) • Microsoft Office <p>International Collaborations</p> <ul style="list-style-type: none"> • Currently working on the Paleocene-Eocene Biostratigraphy of the Indus Basin, Pakistan with Prof. Dr. Ercan Orcan (Istanbul Technical University, Turkey) and Assistant Prof. Dr. Muhammad Hanif (National Center of Excellence in Geology, University of Peshawar) to establish a reliable biostratigraphic zonation in the eastern Tethys. • Key Points <ul style="list-style-type: none"> • Reported new species <ol style="list-style-type: none"> 1. Heterostegina Indusensis 2. Discocyclina Zindapirenses 3. Discocyclina Sulaimanensis 4. Discocyclina Rakhinalaensis 5. Discocyclina Pseudodispana
<p>Commercial Activities</p>	<ul style="list-style-type: none"> • I was actively involved in structural and stratigraphic investigation for hydrocarbon exploration in Baska Block (Clint: Pakistan Petroleum Limited and China Zhenhua Oil Company), 2011. • I have worked as an assistant geologist in biostratigraphic, sedimentologic and hydrocarbon source reservoir rock evaluation investigation for the OMV Pakistan in Mehar Exploration Block Kirthar fold and thrust belt, Khuzdar, Balochistan. • I have worked as an assistant expert in structural, biostratigraphic, sedimentologic and hydrocarbon source reservoir rock exploration studies in Dera Ghazi Khan Exploration Block Eastern Sulaiman Range (Clint: POL Pakistan). • I have worked as an assistant expert in structure, biostratigraphy, sedimentology and hydrocarbon source reservoir rock investigations in Peshawar East Exploration Block, Peshawar Basin, Attock-Cherat and Kala Chitta ranges (Clint: Mari Petroleum, Pakistan). • I have worked as an assistant expert in biostratigraphy, sedimentology and hydrocarbon source reservoir rock investigations in Tirah and Orakzai Exploration Block, Hill Ranges (Clint: OGDCL, Pakistan). • I have worked as an expert in evaluating the reservoir potential of Cambrian and Permian Reservoir sandstones in Adhi Field, Potwar Plateau, Pakistan. (Clint: Pakistan Petroleum Limited, Pakistan).