

# Curriculum Vitae

## IMRAN AHMAD

**DOUBLE GOLD MEDALIST**

**M.PHIL (GEOLOGY)**

Postal Address: Assistant Professor, Department of Geology,

University of Malakand, Chakdara, Dir (Lower), (Khyber Pakhtunkhwa), Pakistan

Cell phone: +92-333-8959643

E-mail: [imran\\_geo@uom.edu.pk](mailto:imran_geo@uom.edu.pk)

### QUALIFICATION:

Degree	Subject	Year	Percentage	Position in class/batch	Institute/Board
PhD	Geology	2017	In Progress		Quaid-I-Azam University Islamabad.
M. Phil	Geology	2016	80%	First Position in Batch	Quaid-I-Azam University, Islamabad.
BS/M.Sc.	Geology	2008	80.62%	First Position in Batch	University of Peshawar
H.S.S.C	Pre-Engineering	2004	75.09%	First Position in class	B.I.S.E Swat
S.S.C	Science Group	2002	82.12%	First Position in class	B.I.S.E Swat

### DISTINCTIONS:

Award	Awarded by	Year	On account of
Gold Medal	University of Peshawar	2008	Over all first position in 4-years BS/M.Sc Geology
Presidential Award of Pakistan (Nominee)	Government of Pakistan	2008	On securing highest score in all the universities of Khyber Pakhtunkhwa Province, Pakistan
Position Holder Certificate	Department of Geology, University of Peshawar	2008	Obtained highest marks
Merit Certificate	University of Peshawar	2008	Obtained 86% marks in my field of specialization (Final year in Structural Geology)
Position Holder Certificate	Govt. Degree College, Mingora Swat	2004	First position in the college (Pre-Engineering Group)
Position Holder Certificate	Madyan Public School, Madyan Swat	2002	First position in the School (Science Group)
Talent Certificate	FLORIDA STATE UNIVERSITY, USA	2010	Field experience
Talent Certificate	EDINBURGH UNIVERSITY, UK	2010	Field experience
Gold Medal/Chancellor Medal	Quaid-I-Azam University, Islamabad	2016	First position in class/batch with 80% marks.

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## RESEARCH WORK/THESIS FOR M.PHIL. DEGREE:

Diagenetic Studies and its Implication on Reservoir Characterization of the Anisian-Norian (Triassic) Kingriali Formation, Salt Range (Pakistan).

## RESEARCH WORK/THESIS FOR BS/M.Sc. DEGREE:

Structural and stratigraphic study of Bandi Munim and adjoining areas, Southern Hazara, NWFP, Pakistan.

## FUTURE INTEREST

Carbonate Sedimentology (Paleozoic Dolomites in Pakistan)

Exposure of Kingriali Formation in the Lesser & Sub Himalayan Systems of Pakistan.

## GEOLOGICAL FIELD WORK EXPERIENCE:

I conducted detailed geological field work to the following geological sections/ranges/areas which covers stratigraphy of the area, regional and local geological structures, geological and structural mapping, high resolution sequence stratigraphy, paleontology and sedimentary depositional systems of Pre-Cambrian to Quaternary successions.

- Khyber Ranges (Khyber Agency) in the vicinity of Peshawar, Khyber Pakhtunkhwa (KP).
- Warsak Alkaline Igneous Complex, Peshawar District, KP
- Nowshehra Reef Complex, Peshawar Basin, KP
- Gajju Ghundai Volcanic Complex, Swabi District, KP
- Malakand Ranges (Malakand Igneous & Metamorphic Complexes), Malakand District, KP
- Dir Meta Volcanics, Upper and Lower Dir Districts, KP
- Swat Metamorphic and Igneous Complexes, Swat District, KP
- Shangla Melange Zone, Suture Zone and Fossil Subduction Complex, Shangla District, KP
- Kohistan Island Arc Igneous and Metamorphic Complexes, From Besham to Gilgit.
- Yasin Group Meta Sediments, Yaseen Valley, Gilgit Baltistan
- Chalt Meta Volcanic Complex, Chalt, Gilgit Baltistan
- Utror Meta Volcanics and Paleozoic Succession of Kalam Group, Swat District, KP
- Ambela Alkaline Igneous Complex, Buner and Mardan Districts, KP
- Shewa Shahbaz Garhi Igneous Complex, Mardan District, KP
- Attock Cherat Ranges and Geology of Nizampur Basin, Nowshehra District, KP
- Kala Chitta Ranges of the Lesser Himalayan System of Pakistan, Attock and Rawalpindi Districts
- Khanpur Hill of the Lesser Himalayan System of Pakistan, Southern Hazara, KP
- Margalla Hill Ranges in the vicinity of Islamabad
- Mansehra Granitic Complex, Mansehra District, KP
- Galliat Geological Section, From Abbotabad to Murree along Nathya Gali Road, Punjab & KP.
- Khair-e-Murat Ranges of NPDZ, Sub Himalayas, Fatehjang, Punjab
- Potwar Plateau: From Margalla Hills upto Salt Ranges, Punjab.
- Khewra Gorge Section, Eastern Salt Ranges, Punjab
- Kallar Kahar Road Section, Eastern Salt Ranges, Punjab
- Nammal Gorge Section, Central Salt Ranges, Punjab
- Zaluch Nala and Kalabagh Section, Western Salt Ranges, Punjab
- Chichali Nala and Khisore Ranges, Trans-Indus Ranges, Punjab & KP
- Kothal, Laachi, Panoba and Bahadar Kheil Sections, Kohat Fold & Thrust Belt, Kohat & Karak
- Orakzai Agency, Kohat Sub Basin, FATA
- Samana Ranges, Hangu District, KP
- Northern Suleiman Ranges, From FR D.I.Khan (KP) to Zhob (Baluchistan)
- Loralai, Qilla Saif Ullah, Dokki and Harnai Geological Sections, Baluchistan
- Kashmir Basin, in the vicinity of Muzaffarabad City, AJK

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## **PROJECTS & SUPERVISION:**

- I have supervised 92 research students in different fields (Geology) for the partial fulfillment of BS degree in geology.
- As a co-principal investigator in a research project “Detailed investigations of diagenetic modifications in Kawagarh Formation (Turonian) and Samana Suk Formation (Callovian) in the Hazara basin, NW Pakistan: Implications on reservoir characterization and diagenetic modeling” (Submitted for HEC research grant program).
- Geochemical Analysis and Microfacies Interpretation of Kingriali Formation, Sayiduwali Section, Khisore Range, KP.
- Bedding Parallel Dolomitization with in Cretaceous Kawagarh Formation, Kahi Section, Nizampur, KP, Pakistan.
- Fault Related Dolomitization in Jurassic Samana Suk Formation and its impact on the Reservoir Character, Western Kalachitta Ranges, KP, Pakistan.
- Diagenetic Study and its impact on the reservoir character of Cambrian Khisor Formation, Khisor Range, KP, Pakistan.
- Effect of Diagenetic Alteration in the reservoir character of Anisian Kingriali Formation, Vanjari Section, Surghar Range, KP, Pakistan.
- Geology of Chichali Nala with special emphasis on the Paleoenvironmental analysis and diagenetic study of Callovian-Bathonian Samana Suk Formation, Trans Indus Ranges, Punjab, Pakistan.
- Structural and Stratigraphic study of Darra Village in the vicinity of Old Khanpur, Southern Hazara, Khyber Pakhtunkhwa, Pakistan.
- Structural Mapping and Stratigraphic study of Khurram Paracha and Adjoining areas in the vicinity of Taxila, Eastern Kala Chitta Ranges, Rawalpindi, Pakistan.
- Structural and Stratigraphic Study of Talhaar Village in the Vicinity of Pir Sohawa, Margalla Hill Ranges, Khyber Pakhyunkhwa, Pakistan.
- Paleoenvironmental and diagenetic analysis of the Jutana Dolomite, Khewra Gorge Section, Eastern Salt Ranges, Punjab, Pakistan.
- Structural Analysis of Margala Hills & Northern Potwar Deformed Zone, Punjab, Pakistan.
- Role of Main Boundary Thrust in the deformation of Kahi area in the vicinity of Nizampur, Khyber Pakhtunkhwa, Pakistan.
- Geological mapping and seismic interpretation for the confirmation of subsurface geological structures, Northern Suleiman Ranges, Mughal Kot, FR D.I.Khan, Pakistan
- Geological Mapping and Structural setup of Tarar Village in the Vicinity of Khanpur, Southern Hzara, Khyber Pakhtunkhwa, Pakistan.
- Engineering Properties of Materials (Soil Aggregates and Asphalt) for Northern By-Pass Road Project, Peshawar, Khyber Pakhtunkhwa, Pakistan.
- Case Study of Northern By-Pass Road Project Peshawar for Material Testing, Peshawar, Khyber Pakhtunkhwa, Pakistan
- Field Geologist in a Research Project “Source Rock Mapping & Investigation for Hydrocarbon Potentials in FATA areas” Pakistan.
- Structural and Tectonic Evolution of Khanpur Valley (A part of Hill Ranges in Southern Hazara), Khyber Pakhtunkhwa, Pakistan.
- Fracture Evolution and Hydrocarbon Potentials in Suleiman Anticline of Northern Suleiman Ranges, Western Himalayan Orogeny, Khyber Pakhtunkhwa, Pakistan.
- Being a field expert, I conducted two detailed and extensive field work in two different PhD-Projects with scholars from foreign Universities (**One from Edinburgh University, UK** and second from **Florida State University, USA**), on Jurassic to Eocene sequences of Mughal Kot Geological Section, Pakistan and received merit certificates from these foreign universities.
- Geological feasibility survey conducted for the construction of 22-kilometer road in Chagharzi, District Buner, Pakistan.

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- Geological feasibility survey conducted for construction of Police Station at Shah Deri, District Swat, Pakistan.
- Geological feasibility survey conducted for construction of Police Station at Chuprial, District Swat, Pakistan.
- Geological feasibility survey conducted for construction of Police Station at Shakar Dara, District Swat, Pakistan.
- Geological feasibility survey conducted for construction of Police Station at Taleegram, District Swat, Pakistan.
- Geological feasibility survey conducted for construction of Police Station at Kingergali, District Buner, Pakistan.
- Geological feasibility survey conducted for construction of Police Station at Sar Thana, District Swat, Pakistan.
- Geological feasibility survey conducted for construction of Police Station at Besham, District Shangla, Pakistan.
- Geological feasibility survey conducted for construction of Police Station at Miandam, District Swat, Pakistan.
- Geological feasibility survey conducted for construction of Police Station at Behrain, District Swat, Pakistan.
- Geological feasibility survey conducted for construction of Police Station at Lajbok, District Dir, Pakistan.

### PREVIOUS/PRESENT EMPLOYEMENT:

Institution	Position Held	Period	
		From	To
University of Malakand, Chakdara, Dir (Lower), Khyber Pakhtunkhwa	<b>Assistant Professor (BPS-19)</b>	1 <sup>st</sup> March 2018	Till Date
Bacha Khan University, Charsadda, Khyber Pakhtunkhwa	<b>Lecturer in Geology (BPS-18)</b> Regular/Permanent	15 <sup>th</sup> August, 2011	28 <sup>th</sup> February 2018
National Centre of Excellence in Geology, University of Peshawar, Peshawar, Khyber Pakhtunkhwa	<b>Research Associate (BPS-18)</b> Contract	1 <sup>st</sup> May, 2009	13 <sup>th</sup> August, 2011
National Centre of Excellence in Geology, University of Peshawar, Peshawar, Khyber Pakhtunkhwa	<b>Research Assistant (BPS-16)</b> Contract	1 <sup>st</sup> January, 2009	30 <sup>th</sup> April, 2009

### PUBLICATIONS:

1. *Mumtaz SHAH, AHMED Waqar, ALI ASghar, HAIDER Naghma, and AHMED Imran*, Bedding parallel dolomite in the Samana Suk Formation (Callovian) southern Hazara basin, NW Pakistan: Preliminary investigations of field relationships, petrographic studies, geochemistry and petrophysical characteristics. *Geologie-Geochimie-Geophysique, IFP Energies nouvelles Aug 2014*.
2. *Mumtaz SHAH, ALI ASghar, HAIDER Naghma, AHMED Imran and Khan U. Emaad*, Effect of igneous intrusions on the reservoir properties of Khyber Limestone (Devonian), Peshawar Basin (NW Pakistan). Presented in *PAPG-SPE Annual Technical Conference Nov. 2014*.

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3. *Mumtaz Muhammad Shah; Emad Ullah Khan; M. Gulraiz Akhter; Asghar Ali; Naveed Ahsan; Imran Ahmed; Naghma Haider*, EFFECT OF IGNEOUS INTRUSIONS ON THE RESERVOIR CHARACTERIZATION OF KHYBER LIMESTONE (DEVONIAN), KHYBER PAKHTUNKHWA, NORTH-WEST PAKISTAN". Submitted to *Arabian Journal of Geoscience*.
4. *Shah, M.M, Khan, E.U, Ali, A, Ahsan, N, Ahmed, I*, Effect of igneous intrusions on the reservoir properties of Khyber Limestone (Devonian), Peshawar Basin (NW Pakistan). *ICS 2014 Geneva*. Effect of igneous intrusions on the reservoir properties of Khyber limestone (Devonian), Peshawar Basin (NW Pakistan) Extended Abstract accepted for oral presentation in a conference of American Association of Petroleum Geoscientist.
5. *Iram Gul, Nosheen Hashim, Shafiqur Rehman, Imran Ahmad*, Groundwater contamination in district Nowshera, Khyber Pakhtunkhwa, in the wake of super-flood 2010. *Journal of Science, Technology and Development* (35): 131-140, 2016
6. *Nosheen Hashim, Iram Gul, Muhammad Ali, S. Shafiqur Rehman, Imran Ahmad*, Assessment of Physico-Chemical Characteristics of Soil in 2010 Flood Affected and Non-Affected Areas of District Nowshera, Khyber Pakhtunkhwa. Conference paper, held in **August 2016**.
7. *Abdullah; Imran Ahmad; Waqas Anwar; Bahrul Amin and Irfan Ullah*, Structural analysis of Talhaar area in the vicinity of Pirsohawa, Khyber Pakhtunkhwa, Pakistan. *Journal of Himalayan Earth Sciences international Conference 2016*.
8. *AHMAD Imran & Shah, M.M*, Diagenetic Studies and its Implications on the Reservoir Character of the Anisian-Norian (Triassic) Kingriali Formation, Salt Range (Pakistan). Paper accepted for oral presentation in AAPG conference held in September 2016 at Cancun, Mexico.
9. *Shah, M.M & Ahmad, I.* Effect of Diagenesis and its Implications on the Reservoir Character of the Anisian-Norian (Triassic) Kingriali Formation, Salt Range (Pakistan). *Journal of Himalayan Earth Sciences international Conference 2016*.

### CONFERENCES:

Conference Title	Organizer	Location	Date	Sponsoring Agency
Hydrocarbons Potentials of Pakistan	University of Peshawar	Bara Gali Summer Campus, University of Peshawar	30-08-2008 (4-days)	E & P Companies and HEC
Evolving E & P strategies for growing energy needs	PAPG-SPE Annual Technical Conference 2010	Serena Hotel Islamabad, Pakistan	10-11-2010 (3-days)	Pakistan Petroleum Limited
E & P Technologies, Innovations & New Frontiers	PAPG-SPE Annual Technical Conference 2012	Serena Hotel Islamabad, Pakistan	4-12-2012 (3-days)	OGDCL
Energy through Hydrocarbon Resources Revolution	PAPG-SPE Annual Technical Conference 2013	Serena Hotel Islamabad, Pakistan	26-11-2013 (3-days)	Schlumberger Weatherford, PPL, OMV

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International Conference on Earth Sciences Pakistan 2014	NCE in Geology, University of Peshawar	Bara Gali Summer Campus, University of Peshawar	29-8-2014 (3-days)	HEC, University of Peshawar
Energy Challenges of Pakistan and E & P Strategies	PAPG-SPE Annual Technical Conference 2014	Pak – China Friendship Centre, Islamabad, Pakistan	25-11-2014 (3-days)	OGDCL, PPL, LMKR
Capacity Building of staff of HEIs/HEC (Developing & Assessing Proposals)	Higher Education Commission Tertiary Education Support Program	Margalla Hotel, Islamabad	9 <sup>th</sup> October, 2015 (3-days)	Institute of Management Sciences.
Advance Oil and Gas Exploration in Pakistan	SPE -PAPG Annual Technical Conference 2016	Pak – China Friendship Centre, Islamabad, Pakistan	20-22 November, 2016	PPL, POL, PEL, OGDCL, LMKR
New Oil Provinces in Pakistan.	SPE -PAPG Annual Technical Conference 2017	Pak – China Friendship Centre, Islamabad, Pakistan	21 & 22 November, 2017	Oil Industries of Pakistaan

### REFERENCE:

**Dr. Mumtaz Muhammad Shah**

Assistant Professor

Quaid-I-Azam University, Islamabad, Pakistan

Phone: +92-303-5218203

Email: [mshah@qau.edu.pk](mailto:mshah@qau.edu.pk)