

# CURRICULUM VITAE

S A I F U R R E H M A N

## WORK EXPERIENCE

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- October, 2019 – To-date      Institute of Geology, University of the Punjab  
*Associate Professor*
- August, 2019 – October, 2019      Department of Earth Sciences, University of Sargodha  
*Associate Professor*
- March, 2012– August, 2019      Department of Earth Sciences, University of Sargodha  
*Assistant Professor*
- November, 2007 – March, 2012      Department of Earth Sciences, University of Sargodha  
*Lecturer*

## EDUCATION

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- 2017      University of Sargodha  
*Ph.D.*  
*Sedimentology of Turonian-Maastrichtian Kawagarh Formation, Attock Hazara Fold and Thrust Belt, Pakistan.*
- 2010      University of the Punjab  
*M.Phil*  
*Microfacies Analysis and Environments of Deposition of Kawagarh Formation exposed at Chinali and Kharala, Northwest Lesser Himalaya, Pakistan.*
- 2006      University of the Punjab, Pakistan  
*Master of Science in applied Geology*  
*M.Sc. thesis focuses on Litho-structural mapping Khanpur area, Pakistan with special emphasis on microfacies of Cretaceous Kawagarh Formation.*
- 2004      University of the Punjab, Pakistan  
*Bachelor of Science in applied Geology*  
*Basic courses work and field work regarding applied geology was completed during B.sc studies, which includes; general geology, geomorphology, stratigraphy, mineralogy, sedimentology, palaeontology, engineering geology.*

## LANGUAGE SKILLS

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English, Urdu

## MEMBERSHIP OF ACADEMIC BODIES

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Member, National Curriculum Revision Committee (NCRC) for Geology, Higher Education Commission, Pakistan.

Member, Board of Faculty, Faculty of Sciences and Technology, University of Sargodha, Sargodha. (from 2013 to date)

Member, Board of Studies, Department of Earth Sciences, University of Sargodha, Sargodha. (since 2007 to date)

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Member, Board of Faculty, Faculty of Sciences and Technology,  
University of Sargodha, Sargodha. (from 2008 to 2010)

Member, Hall Council, University of Sargodha, Sargodha.

#### ADMINISTRATIVE SERVICE RECORD

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Worked as Resident Officer, University of Sargodha, Sargodha since October, 2017 to October, 2019.

Worked as "Superintendent" Quaid-e-Azam Boys Hall, University of Sargodha, Sargodha since December, 2011 to September, 2018.

Worked as Resident Officer, University of Sargodha, Sargodha since September, 2012 to January, 2015.

Worked as Deputy Director Student Affairs, University of Sargodha, Sargodha since November, 2011 to January, 2015.

Worked as "Assistant Superintendent" in Quaid-e-Azam Boys Hall, University of Sargodha, Sargodha from April, 2008 to December, 2011.

Worked as Incharge, Department of Earth Sciences, University of Sargodha, Sargodha from September 06, 2008 to April 09, 2009.

#### RESEARCH PROJECTS

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Evaporite rocks of Pakistan and China” in collaboration with Nanjing Institute of Geology & Paleontology, Chinese Academy of Science, Nanjing, China. (In progress).

#### M.PHIL THESIS SUPERVISED

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Toqeer Ahmad, 2013. Landsat Image Interpretation for Lithological mapping of Eastern Salt Range, Districts Jhelum and Chakwal.

Waseem Liaqat, 2014. Geology, Mineralogy and Geochemistry of Residual Deposits from Lari Hijjal and Saloi, Eastern Salt Range, Pakistan.

Naveed Abbas, 2014. Geochemical Characterization and Genesis of Coal Seams of Patala Formation from District Khushab, Central Salt Range, Pakistan.

Hafiz Nazish Imran, 2014. Lithofacies, Microfacies and TOC Analysis of Patala Formation from Dhak Pass and Adjoining areas, Western Salt Range, Pakistan.

Hafiz Zaheer Afzal, 2015. Petrophysical Analysis of Mesa-Kaswal Oil Field, Potwar Basin, Pakistan.

Kamran Akram, 2015. Petrophysical Analysis of Fimkasar Oil Field, Punjab, Pakistan.

Hamad Rahim, 2015. Biostratigraphy and Sedimentology of Eocene Margala Hill Limestone from Shahdara and Saidpur, Margala Range, Pakistan.

Muhammad Usman, 2015. Facies analysis, diagenesis and depositional environments of the Early Permian siliciclastic Dandot Formation from Eastern Salt Range, Pakistan.

Muhammad Ahmad Riaz, 2016. Microfacies and Depositional Environments of Pir Koh Formation exposed at Dholi and Rakhi Gaj, Sulaiman Range, Pakistan.

Mahboob Ahmad, 2016. Microfacies and Depositional Environments of Chorgali Formation from Bhattian and Gharaga, Southern Hazara Basin Pakistan: A Sedimentological and Paleontological approach.

- Laraib Riaz, 2017. Lithofacies and Depositional Environments of Dandot Formation exposed in the Central Salt Range, Pakistan.
- Muhammad Bilal khizar, 2017. Demarcation of new quarries and their engineering properties for road construction of Pakistan-China Economic Corridor, District Dera Ismail Khan, KPK, Pakistan.
- Khurram Haroon, 2017. Petrophysical and Structural Analyses of Zindapir Oil Field, Sulaiman Fold Belt, District D.G Khan Pakistan.
- Muhammad Saqib Nawaz, 2017. Aggregate suitability studies of Paleozoic and Cenozoic strata, Southern Khisor Range Pakistan.
- Nafees Ahmed, 2018. The Engineering geological properties of Inzari limeston from Inzari Village, District Nowshera, KPK, Pakistan.

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#### REFERENCES

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|--------------------------|---|
| Prof. Dr. Khalid Mehmood | Chairman, Department of Earth Sciences, University f Sargodha, Sargodha, Pakistan. khalidophi@yahoo.com |
| Prof. Dr. Naveed Ahsan   | Professor, Institute of Geology, University of the Punjab, Lahore, Pakistan. naveedahsan.geol@gmail.com |

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#### JOURNAL PUBLICATIONS

- (2020). Contribution to the comparative study of treated and untreated wastewater: a case study (Wadi Fatima and Al Misk Lake) in Saudi Arabia. **Arabian Journal of Geosciences (Impact Factor)**.
- (2020). Composition of middle-late Eocene salt lakes in the Jintan Basin of eastern China: Evidence of marine transgressions. **Marine and Petroleum Geology. (Impact Factor)**
- (2020). Petrogenesis, platinum-group element geochemistry and geodynamic evolution of the Cretaceous Chilas gabbros, Kohistan island arc, NE Pakistan. **Lithos. (Impact Factor)**
- (2020). A critical review on petrogenetic, metallogenic and geodynamic implications of granitic rocks exposed in north and east China: New insights from apatite geochemistry. **Journal of Geodynamics (Impact Factor)**
- (2019). Potential Seismogenic Source Model for the Red Sea and Coastal Areas of Saudi Arabia. **International Journal of Economic and Environmental Geology, 10(2), 26-31. (HEC recognized Y Category)**
- (2019). Gross Depositional Environments of Late Turonian-Maastrichtian Kawagarh Formation from Kalachitta Range, Attock Hazara Fold and Thrust Belt, Pakistan. Submitted to **Carbonates and Evaporites (Under Review)**.
- (2019). Groundwater Quality of Sargodha city and its suitability for domestic and irrigation purpose. **Fresenius Environmental Bulletin, 28(11): 7695-7700. (Impact Factor)**
- (2019). The Yudomski event and subsequent decline: new evidence from  $\delta^{34}\text{S}$  data of lower and middle Cambrian evaporites in the Tarim Basin, western China. **Carbonates and Evaporites, 34(3): 1117-1129. (Impact Factor)**
- (2019). Sedimentological effect on reservoir quality of Es1 Sandstone (Eocene) of Shahejie Formation of Nanpu sag, East China. **Arabian Journal of Geosciences (First Online, 22 August, 2019). (Impact Factor)**
- (2019). Sedimentology of Marl and Marly Limestone sequence of Upper Cretaceous Kawagarh Formation from Northern Kalachitta Range, Attock Hazara Fold and Thrust Belt, Pakistan. **Open Journal of Geology, 9(1): 1--14. (Sci. Indexed)**
- (2018). Coal Mining Trends, Approaches and Safety Hazards: A brief Review. **Arabian Journal of Geosciences (First Online, 26<sup>th</sup> October, 2018). (Impact Factor)**
- (2018). Use of Multivariate Statistical Analysis for the Assessment of Groundwater Chemical Variations in Wadi Bani Malik Area, Saudi Arabia. **Global NEST Journal, 20(2): 355-362. (Impact Factor)**
- (2018). Probabilistic Seismic Hazard Assessment and Sensitivity Analyses for Bahrah Area, Saudi Arabia. **BURJES, 3(1):23-30. (HEC Non-recognized)**
- (2018). Assessing Groundwater Quality with special reference to human, agriculture and industrial in Sargodha, Punjab, Pakistan. **Journal of Biodiversity and Environmental Sciences, 12(5): 26-56. (Sci. Indexed)**

- (2018). MASW Survey with fixed Receiver Geometry and CMP Cross-Correlation Technique for data processing: A case study of Wadi Fatima, Western Saudi Arabia. **Open Journal of Geology, 8, 463-473. (Sci. Indexed)**
- (2018). Aggregate Suitability studies of Middle Jurassic Samana Suk Formation exposed at Sheikh Budin Hill, Marwat Range, Pakistan. **Journal of Biodiversity and Environmental Sciences, 12(3), 159-168. (Sci. Indexed)**
- (2017). Physio-chemical analysis of ground water and its impact on public health in Sargodha city, Pakistan. **Journal of Biodiversity and Environmental Sciences, 11(5): 376-384. (Sci. Indexed)**
- (2017). X-ray Diffraction study of Aquamarine from Shigar deposit, Skardu Valley, Northwest Pakistan. **International Journal of Economic and Environmental Geology, 8(4), 33-40. (HEC recognized Y Category)**
- (2017). Sedimentology of Pir Koh Formation exposed at Dholi and Rakhi Gaj, Central Sulaiman Range, Pakistan. **Journal of Biodiversity and Environmental Sciences, 11(6): 224-234. (Sci. Indexed)**
- (2017). X-ray diffraction study of emerald from Mingora and Charbagh deposits, Swat valley, Northwest Pakistan. **Journal of Himalayan Earth Sciences, 50(1A): 13-24. (HEC recognized X Category)**
- (2016). Assessment of ground water quality: A case study in Sargodha city, Pakistan. **Science International (Lahore), 28(5): 4715-4721. (HEC recognized Y Category)**
- (2016). Anomalous optical variations in the grossular garnet from the Edin Mills, Belvidere Mountain (Vermont, USA). **Arabian Journal of Geosciences, 9(9): 545. (Impact Factor)**
- (2016). Microfacies and Depositional Environments of Upper Cretaceous Kawagarh Formation from Chinali and Thoba, Northeastern Hazara Basin, Lesser Himalayas, Pakistan. **Journal of Himalayan Earth Sciences, 49(1): 1-16. (HEC recognized X Category)**
- (2015). Biostartigraphy and its suggested correlation with Lithostarigraphy in Chidru Formation, Salt Range, Pakistan. **International Journal of Agriculture and Applied Sciences, 7(1): 37-42. (HEC recognized Z Category)**
- (2015). Upper Paleocene large benthic foraminifera- Lockhart limestone from western and central Salt Range, Pakistan. **Science International (Lahore), 27(2): 1315-1319. (HEC recognized Y Category)**
- (2014). Conjecturing Gross Lithologic Information using Elastic Moduli observed by Rock Physics as tool. A case study for Khewra Sandstone, Fortabbas Area, Pakistan. **Energy Sources, Part A, 36 (16): 1786-1792. (Impact Factor)**
- (2013). Spectral and Spatial Image Fusion for Geological Lineament Mapping; A case study of Pail/Padhrar Area in Central Salt Range; District Khushab. **International Journal of Agriculture and Applied Sciences, 5(2): 41-50. (HEC recognized Z Category)**
- (2013). Better perceptive and enhanced visualization of seismic profiles for exploration of hydrocarbon using Seismic and synthetic seismogram modeling of Khipro Block, Southern Indus Basin, Sindh Province, Pakistan. **Energy Sources, Part A, 35(22): 2101-2112. (Impact Factor)**
- (2013). Geochemical characterization and Petrogenesis of JAL-NIAT amphibolites, Southeast Kohistan, Pakistan. **Iranian Journal of Science and Technology; Transaction A, 37(A2): 147-159. (Impact Factor)**
- (2013). Subsurface structural Re-construction of Joya Mair structure, Southeast Potwar Sub-Basin, Pakistan. **International Journal of Agriculture and Applied Sciences, 5(1):17-26. (HEC Non-recognized)**
- (2013). Structural Geology of Panoba and Chorlakki area, Northeastern Kohat Plateau, Khyber Pakhtunkhwa, Pakistan. **International Journal of Agriculture and Applied Sciences, 5(1):41-46. (HEC Non-recognized)**
- (2012). Aggregate suitability studies of Limestone outcrops in Dhak Pass, Western Salt Range, Pakistan. **International journal of Agriculture and Applied Sciences, 4(2):69-75. (HEC Non-recognized)**
- (2012). Geochemical characterization and Tectonic Environments of Sumal Amphibolites, Kamila amphibolites unit, Southeast Kohistan, Pakistan. **International journal of Agriculture and Applied Sciences, 4(2):99-111. (HEC Non-recognized)**
- (2009). Geochemistry and Tectonic Environments of Babusar Amphibolites, Southeast Kohistan, Pakistan. **Geological Bulletin of Punjab University, 44:105-116. (HEC Non-recognized)**

2018. Muzaffarabad paleohigh, NW Himalaya, Pakistan: Its impacts on depositional settings and development of Hazara-Kashmir syntaxis. **33<sup>rd</sup> Himalaya-Karakoram-Tibet Workshop, Lausanne, Switzerland**, 10-12 September 2018.
2017. Margalla Hill Limestone a Ypresian Carbonate Ramp Deposit on the subducting Indian Plate margin in the Kashmir Basin, NW Lesser Himalayas, Azad Kashmir. **International Meeting of Sedimentology 2017 – Toulouse, France**, 10-12 October 2017.
2015. Kawagarh Formation (Turonian to Lower Maastrichtian)- A homoclinal ramp deposit in Hazara Basin on the northern margin of Indian Plate, Pakistan. **15<sup>TH</sup> Bathurst Meeting, University of Edinburgh, United Kingdom**, July, 13-16, 2015.
2014. Late stage diagenetic alterations in Turonian- Maastrichtian Kawagarh Formation, Hazara Basin (NW Lesser Himalayas, Pakistan): Based on petrographic, geochemical and stable isotopic information. **19<sup>th</sup> International Sedimentological Congress 2014, Geneva University, Geneva, Switzerland**, August, 18-22, 2014.
2013. Geochemistry of Coal Seams in Patala Formation from Sohail River Gorge and Pail-Khushab Road, Pakistan: Investigation of Environmental Impacts of Sub-Bituminous Coals. **1ST International Coal Conference 2013, Mehran University, Jamshoro**, November, 7-9, 2013.
2013. Mechanism of dolomite formation in Kawagarh Formation (Late Turonian to Lower Maastrichtian), Hazara Basin, NW Lesser Himalayas, Pakistan: Integrating petrographic, geochemical and isotopic studies. **30th International Association of Sedimentologists at Manchester, United Kingdom**, September, 3-5, 2013.
2011. Geochemistry, Petrogenesis and Tectonic environments of JAL-NIAT amphibolites, Southeast Kohistan, Pakistan. **26<sup>th</sup> Himalaya-Karakoram-Tibet Workshop, Canmore, Canada**, July 12-13, 2011