

# CURRICULUM VITAE

M U H A M M A D J A W A D M U N A W A R

## WORK EXPERIENCE

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- 14/09/2018–Present Institute of Geology, University of the Punjab, Lahore  
Assistant Professor
- Oct, 2016 – Jan, 2017 Petroleum Institute, Abu Dhabi  
*Research Assistant*  
*Worked as research assistant in Petroleum Institute research labs (PIRC), the work includes imaging of carbonate and sandstone rocks with micro CT and SEM. Further work includes image processing and image analysis to obtain petrophysical properties of rock.*
- June, 2012 – July, 2013 Alishar Contracting Corporation, Saudi Arabia  
*Geologist*  
*Work includes geological mapping, soil, aggregate and concrete testing, and report writing*
- June, 2010 – June, 2011 Oil and Gas Development Company Limited, Pakistan  
*Internee Geologist*  
*Work includes: Sedimentological and sequence stratigraphic studies, geological mapping, Wireline log interpretation and correlations, monitoring of drilling activities and preparing well composite logs, assisted in preparing of well prognosis, Preparation of different kind of maps in ARCGIS and AutoCAD environments for presentation purposes.*
- June, 2008 – August, 2008 Petroleum Exploration Limited, Pakistan  
*Internee*  
*Learned stratigraphic correlations, preparation of isopach maps, wire line log interpretation, petrophysical analysis and basic skills of geophysical interpretations.*

## EDUCATION

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- 2018 China University of Petroleum (East China)  
*Ph.D.*  
*Ph.D thesis focuses on stratigraphic, sedimentological and petrographic characterization of low permeability to tight turbidite sandstone (Es3m) reservoir from Dongying Depression, China.*
- 2015 Ghent University  
*Ph.D. (exchange student)*  
*During the stay at Ghent university, micro-CT and SEM imaging was performed to investigate pore-throat system and mineralogy of the sandstone reservoir.*
- 2009 University of the Punjab, Pakistan  
*Master of Science in Applied Geology*  
*M.Sc. thesis focuses on stratigraphic and litho-structural mapping in central Salt Range, Pakistan with special emphasis on biostratigraphy and microfacies of Eocene Lockhart Limestone.*
- 2008 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.*

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## LANGUAGE SKILLS

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English, Chinese, Urdu

## IT SKILLS

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Good knowledge of micro-CT image processing and segmentation.

Good knowledge of pore network modelling (PNM), and ability to use imperial college PNM code.

Good ability to calculate absolute permeability and relative permeability from PNM and micro-CT images by using AVIZO software and imperial college code.

Good command of ArcGIS, Global Mapper and office suite (word processor, spread sheet, presentation software)

## JOB RELATED SKILLS

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Excellent communication skills gained by attending conferences, meetings and seminars.

Good skills to organize and report the analytical data and results.

Good capability to address scientific questions.

Proven capability to publish in peer reviewed scientific journals.

Good ability to work independently, as well as part of a team.

Good knowledge of diagenetic processes in sedimentary rocks.

Hands on experience with micro-CT and SEM imaging instrumentation, sample handling and preparation.

Good knowledge of automated SEM mineral analysis (Qemscan).

## JOURNAL PUBLICATIONS

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### **Pore Size Distribution and Reservoir Characterization: Evaluation for the Eocene Beach-Bar Sequence, Dongying Depression, China.**

Muhammad Aleem Zahid, Dong Chunmei, Alexandra N. Golab, Chengyan Lin, Xianguo Zhang, Xinmin Ge, Wu Songtao, Muhammad Jawad Munawar, Cunfei Ma, Lydia Knuefing (2019). *Arabian Journal of Geosciences*, Accepted

### **Effects of Micropores on Geometric, Topological and Transport Properties of Pore Systems for Low-Permeability Porous Media.**

Wu, Yuqi, Pejman Tahmasebi, Chengyan Lin, Muhammad Jawad Munawar, and Veerle Cnudde (2019). *Journal of Hydrology*, 575, 327-342 “<https://doi.org/10.1016/j.jhydrol.2019.05.014>.”

### **Petrographic characterization to build an accurate rock model using micro- CT: Case study on low-permeable to tight turbidite sandstone from Eocene Shahejie Formation.**

Munawar Muhammad Jawad, Lin Chengyan, Cnudde Veerle, Bultreys Tom, Dong Chunmei, Zhang Xianguo, De Boever Wesley, Zahid Muhammad Aleem, Wu Yuqi (2018). *Micron*, 109, 22–33. <http://doi.org/10.1016/j.micron.2018.02.010>

### **Architecture and reservoir quality of low-permeability Eocene lacustrine turbidite sandstone from the Dongying Depression, East China.**

Munawar Muhammad Jawad, Chengyan Lin, Dong Chunmei, Xianguo Zhang, Haiyan Zhao, Xiao Shuming, Azeem Tahir, Muhammad Aleem, Zahid, Cunfei Ma. (2018). *Open Geoscience*, **accepted**.

### **Controls of hydrocarbon generation on the development of expulsion fractures in organic-rich shale: Based on the Paleogene Shahejie Formation in the Jiyang Depression, Bohai Bay Basin, East China.**

Ma Cunfei, Elsworth Derek, Dong Chunmei, Lin Chengyan, Luan Guoqiang, Chen Bingyi, Liu Xiaocen, Munawar Muhammad Jawad, Muhammad Aleem Zahid, Shen Zhengchun, Tian Fuchun. (2017). *Marine and Petroleum Geology*, 86, 1406–1416. <http://doi.org/10.1016/j.marpetgeo.2017.07.035>

**An integrated petrophysical and rock physics analysis to improve reservoir characterization of Cretaceous sand intervals in Middle Indus Basin, Pakistan.**

Azeem Tahir, Chun Wang Yan, MonaLisa, Khalid Pervez, Qing Liu Xue, Ehsan Muhammad Irfan, Munawar, Muhammad Jawad, Wei Xie (2017). *Journal of Geophysics and Engineering*, 14(2), 212–225. <http://doi.org/10.1088/1742-2140/14/2/212>

**Sequence stratigraphy, sedimentary facies and reservoir quality of Es4s, southern slope of Dongying Depression, Bohai Bay Basin, East China.**

Zahid, Muhammad Aleem, Chunmei Dong, Lin Chengyan, Gluyas Jon, Jones Stuart, Zhang Xianguo, Muhammad Jawad Munawar, Ma Cunfei (2016). *Marine and Petroleum Geology*, 77, 448–470. <http://doi.org/10.1016/j.marpetgeo.2016.06.026>

CONFERENCE PUBLICATIONS

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**Architecture and Reservoir Quality of Low-Permeability Eocene Lacustrine Turbidite Sandstone From Dongying Depression, East China.**

Muhammad Jawad Munawar, Lin Chengyan, Dong Chunmei, Jone Gluyas, Zhang Xianguo, Muhammad Aleem Zahid, Ma Cunfei (2018). AAPG annual convention and exhibition (ACE), Salt lake city

**Petrographic characterization of low-permeable to tight turbidite sandstone from Eocene Shahejie Formation using micro-CT.**

Muhammad Jawad Munawar, Veerle Cnudde, Lin Chengyan, Tom Bultreys, Chunmei Dong, Zhang Xianguo, Wesley De boever, Muhammad Aleem Zahid, Yuqi Wu (2018). InterPore 2018, New Orleans

**Characterization of minerals and pore space using the data-constrained modeling in shale.**

Yuqi wu, Lin Chengyan, Yang Sam, Ren Lihua, Muhammad Jawad Munawar (2018). InterPore 2018, New Orleans

**Microstructures characterization of sandstone based on the data-constrained modeling.**

Yuqi wu, Lin Chengyan, Yang Sam, Ren Lihua, Muhammad Jawad Munawar (2018). InterPore 2018, New Orleans

**Pore Size Distribution and Reservoir Characterization: Evaluation for the Eocene Beach-Bar Sequence, Dongying Depression, China.**

Muhammad Aleem Zahid, Dong Chunmei, Alexandra N. Golab, Chengyan Lin, Xianguo Zhang, Xinmin Ge, Wu Songtao, Muhammad Jawad Munawar, Cunfei Ma (2017). CGS/SEG International Geophysical Conference. Qingdao. <http://library.seg.org/doi/pdf/10.1190/IGC2017-308>

**Characterization of Petrographic and Petrophysical Properties from 3D Digital Rock Images: A Case Study on Beach-bar Sandstone of Boxing Sag, East China.**

Muhammad Aleem Zahid, Dong Chunmei, Alexandra N. Golab, Chengyan Lin, Xianguo Zhang, Muhammad Jawad Munawar, Cunfei Ma, Lydia Knuefing (2017). CGS/SEG International Geophysical Conference. Qingdao. <http://library.seg.org/doi/pdf/10.1190/IGC2017-306>

**Characterization of grain and Pore sizes of Es3 turbidites sandstone from Eocene Shahejie Formation with 3D tomographic micro-CT images.**

Muhammad Jawad Munawar, Lin Chengyan, Veerle Cnudde, Wesley De Boever, Dong Chunmei, Muhammad Aleem Zahid (2016). EAGE China – International Symposium on Digital Rock Physics and Applications. Beijing: EAGE-SCA.

**Depositional and Sequence Stratigraphic Framework of Lacustrine Turbidite System in the Third Member (Es3) of Shahejie Formation, Dongying Sag, China.**

Muhammad Jawad Munawar, Chengyan Lin, Dong Chunmei, Cunfei Ma, Muhammad Aleem Zahid (2015). 31st IAS Meeting of Sedimentology (p. 364). Krakow.

**Microfacies Analysis, Paleontology and Biostratigraphy of Paleocene Lockhart Limestone from Pail Area, Central Salt Rang, Pakistan.**

Muhammad Jawad Munawar, Chengyan Lin, Dong Chunmei, Cunfei Ma, Muhammad Aleem Zahid (2015). 31st IAS Meeting of Sedimentology (p. 363). Krakow.