

## Curriculum Vitae

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### SUMMARY (2 pages)

#### EDUCATION

- Doctor of Philosophy, Geosciences, University of Texas, Dallas, 2001
- Master of Philosophy, Geology, University of Peshawar, Pakistan, 1995
- Master of Science, Geology, University of Peshawar, Pakistan, 1991
- Bachelor of Science (Hons.), Geology, University of Peshawar, Pakistan, 1990

#### APPOINTMENTS

- Professor, EAS, UH 2014-present
- Assistant\Associate Professor , EAS, UH; 2003-2014
- Assistant Professor (tenure track), Idaho State University, 08/2002 – 07/2003
- Assistant Professor (tenure track), Roosevelt University, Chicago, 08/2001-07/2002
- Visiting Scientist, Argonne National Laboratory, Chicago, 08/2001–08/2002
- GIS Analyst, GIS/RF Engineering Group, Metricom Inc. Plano, 8/2000-7/2001
- Teaching Assistant, Department of Geosciences, UTD, 1996-2000
- Lecturer, Department of Geology, University of Peshawar, Pakistan, 1991-1996

#### AWARDS AND SYNERGISTIC ACTIVITIES

- Fellow, Geological Society of America, 2016
- Editor, Earth-Science Reviews, 2012-present
- Member AAPG GIS Publications Committee, 2015-2018
- Faculty Graduate Advisor, (Geology); 2016-present
- Faculty Undergraduate Advisor (Geology, Geophysics, Earth Sciences), 2012-2016
- UH, Teaching Excellence Award, 2014; NSM Butler Teaching Excellence Award, 2017
- Gold Medal for academic excellence, University of Peshawar, Pakistan, 1990 and 1991

#### PUBLICATIONS (10 recent publications, \*Khan's student)

1. \*Alonso de Linaje, V., **Khan, S. D.**, 2017. Mapping of diagenetic processes in sandstones using imaging spectroscopy: A case study of the Utrillas Formation, Burgos, Spain. *Sedimentary Geology*, 353, 114-124; doi: 10.1016/j.sedgeo.2017.03.010
2. \*Okyay, U., **Khan, S. D.**, Lakshmikantha, M. R., Sarmiento, S., 2016. Ground-Based Hyperspectral Image Analysis of the Lower Mississippian (Osagean) Reeds Spring Formation Rocks in Southwestern Missouri. *Remote Sensing*, 8, 1018; doi:10.3390/rs8121018
3. \*Krupnik, D., **Khan, S. D.**, \*Okyay, U., Hartzell, P., Zhou, H., 2016. Study of Upper Albian rudist buildups in the Edwards Formation using ground-based hyperspectral imaging and terrestrial laser scanning, *Sedimentary Geology*, 345, 154-167
4. \*Sun, L., & **Khan, S. D.**, 2016. Ground-based hyperspectral remote sensing of hydrocarbon-induced rock alterations at cement, Oklahoma. *Marine and Petroleum Geology*, 77, 1243-1253
5. \*Okyay, U., & **Khan, S. D.**, 2016. Remote detection of fluid-related diagenetic mineralogical variations in the Wingate Sandstone at different spatial and spectral resolutions. *International Journal of Applied Observation and Geoinformation*, 44, 70-87
6. \*Biber, K., **Khan, S. D.**, Bhattacharya, J. Barton, M. D., and Glennie, C. 2017. Quantitative characterization of shales within tidally-influenced fluvial valley fill deposits of the Ferron

Sandstone, Eastern Utah - implications for hydrocarbon exploration. AAPG Bulletin, in press, doi: 10.1306/01111715108

7. \*Snyder, C. J., **Khan, S. D.**, Bhattacharya, J. P., Glennie, C., Seepersad, D., 2016. Thin-bedded reservoir analogs in an ancient delta using terrestrial laser scanner and high-resolution ground-based hyperspectral cameras. *Sedimentary Geology*, 342, 154-164.
8. Hartzell, P., Glennie, C., \*Biber, K., **Khan, S. D.**, 2014. Application of Multispectral LiDAR to Automated Virtual Outcrop Geology. *ISPRS Journal of Photogrammetry and Remote Sensing*, 88, 147-155.
9. \*Petrovic, A., **Khan, S. D.**, Thurmond, A. K. Reflectance Spectroscopy and Hyperspectral Remote Sensing Investigations of Hydrocarbon-Induced Surficial Rock Alterations in Wingate Sandstone, Lisbon Valley, Utah, *Journal of Marine and Petroleum Geology*, 35, 292-308.
10. **Khan, S. D.**, \*Jacobson, S., 2008. Remote Sensing and Geochemistry for Detecting Hydrocarbon Microseepages. *Geological Society of America Bulletin.*, 120(1/2), 96-105.

### **POSTDOCTORAL SUPERVISION**

1. Dr. Sajjad Ahmad, Fulbright Scholar, (12/2016-11/2017), University of Peshawar
2. Dr. Abdul S. Khan, Fulbright Scholar, (08/2013-07/2014), University of Balochistan
3. Dr. Dewen Du, (01/2013-12/2013), First Institute of Oceanography, China
4. Dr. Aziz Ozyavas, (08/2010-07/2011), Currently Asst. Professor at Kocaeli Univ. Turkey
5. Huseyin Bayraktar, (04-2010-04-2011), Ministry of Environment and Urbanism, Turkey
6. Dr. Akhtar Kassi, Fulbright Scholar, (09/2010-07/2011), University of Balochistan
7. Dr. Noor Jehan, (02/2008-02/2009), currently Vice Chancellor, University of Swabi
8. Dr. Irshad Ahmad, Fulbright Scholar, (05/2008-02/2009), University of Peshawar

### **Ph.D. Students Advised**

1. Dr. Ismail Abir (Geophysics, 5/2016). Currently faculty at Univ. of Science, Malaysia
2. Dr. Jon Epps (Geophysics, 5/2014). Currently postdoc, Geosciences, Texas A & M
3. Dr. Shams Ul-Hadi (Geology, 5/2012), Currently at Berger Geosciences, Houston
4. Dr. Yingqian Xiong (Geology, 5/2011). Currently at the Ellington & Associates, Houston
5. Dr. Ana Petrovic (Geology, 8/2010). Currently at the Nobel Energy Inc. Houston
6. Dr. Aziz Ozyavas (Geology, 8/2010). Currently Asst. Prof. at Kocaeli University, Turkey
7. Dr. Sergio Sarmiento (Geology, 5/2010). Currently at REPSOL Inc
8. Dr. Damayanti Mukherjee (Geology, 2010). Currently at Bureau of Economic Geology, University of Texas
9. Dr. Lize Chen (Geology, 5/2009). Associate Professor at the Earthquake Institute, China
10. Dr. Richard Engelkemeir (Geology, 5/2008). Currently at Schlumberger Inc., Houston.
11. Dr. Kivanc Biber (Geology, 5/2017). Currently at StatOil

### **Current Ph.D. Students**

12. Ms. Prama Bhattacharya (Geology)
13. Ms. Wanda Crupa (Geophysics)
14. Ms. Jingqiu Huang (Geophysics)
15. Ms. Diana Krupnik (Geology)
16. Mr. Lei Sun (Geology)
17. Mr. Unal Okyay (Geology)

### **Master's Students Advised (19; 1 in progress)**

### **Undergraduate Honors theses Advised (5; 1 in progress)**