

Shuhab D. Khan

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Professional Preparation

- **Ph.D.**, Geosciences, University of Texas, Dallas, 2001
- **M.Phil.**, Geology, University of Peshawar, Pakistan, 1995
- **MS**, Geology, University of Peshawar, Pakistan, 1991
- **BS (Honors)**, Geology, University of Peshawar, Pakistan, 1990

Appointments

2014- Present Professor, Department of Earth & Atmospheric Sciences, University of Houston
2003-2013 Assistant/Associate Professor, Department of Geosciences, University of Houston
2002-2003 Assistant Professor (tenure track), Department of Geology, Idaho State University
2001-2002 Assistant Professor (tenure track), Roosevelt University, Chicago
2001-2002 Visiting Scientist, Argonne National Laboratory, Chicago
2000-2001 GIS Analyst, GIS/RF Engineering Group, Metricom Inc. Plano
1996-2000 Teaching Assistant, Department of Geosciences, University of Texas, Dallas
1991-1996 Lecturer, Department of Geology, University of Peshawar, Pakistan

Publications (12 recent, *Khan's student) (Out of 70 peer-reviewed publications)

- *Krupnik, D., **Khan, S. D.** 2020. High-Resolution Hyperspectral Mineral Mapping: Case Studies in the Edwards Limestone, Texas, USA and Sulfide-Rich Quartz Veins from the Ladakh Batholith, Northern Pakistan. *Minerals* 10, no. 11: 967. doi.org/10.3390/min1
- *Qureshi, K. A.; **Khan, S. D.** 2020. "Active Tectonics of the Frontal Himalayas: An Example from the Manzai Ranges in the Recess Setting, Western Pakistan" *Remote Sens.* 12, no. 20: 3362. <https://doi.org/10.3390/rs12203362>
- *Krupnik, D., **Khan S. D.**, 2019. Close-range, ground-based hyperspectral imaging for mining applications at various scales: Review and case studies. *Earth-Science Reviews* 198, 102952
- *Sun, L., **Khan, S. D.**, Shabestari, P., 2019. Integrated Hyperspectral and Geochemical Study of Sediment-Hosted Disseminated Gold at the Goldstrike District, Utah. *Remote Sensing*, 11, 1987
- Khan, S. D.**, *Okyay, U., *Ahmad, L. Shah, M. T., 2018. Characterization of Gold Mineralization in Northern Pakistan Using Imaging Spectroscopy. *Photogrammetric Engineering & Remote Sensing*, 84(7), 425-434.
- *Sun, L., **Khan, S. D.**, Godet, A., 2018. Integrated ground-based hyperspectral imaging and geochemical study of the Eagle Ford Group in West Texas. *Sedimentary Geology*, 363, 34-47, DOI; 10.1016/j.sedgeo.2017.10.012
- *Alonso de Linaje, V., **Khan, S. D.**, Bhattacharya, J., 2018. Study of carbonate concretions using imaging spectroscopy in the Frontier Formation, Wyoming, *International Journal of Applied Earth Observation and Geoinformation*, 66, 82-92; doi: 10.1016/j.jag.2017.11.010

- *Biber, K., **Khan, S. D.**, Seer, T. D., Sarmiento, S., Lakshmikantha, M. R. 2018. Quantitative characterization of a naturally fractured reservoir analog using a hybrid lidar-gigapixel imaging approach. *Geosphere*, 14(2),1-21; doi: 10.1130/GES01449.1.
- *Sun, L., **Khan, S. D.**, Sarmiento, S., Lakshmikantha, M. R., Zhou, H., 2017. Ground-based hyperspectral imaging and terrestrial laser scanning for fracture characterization in the Mississippian Boone Formation. *International Journal of Applied Earth Observations and Geoinformation*, 63, 222-233, DOI; 10.1016/j.jag.2017.08.008
- *Crupa, W. E., **Khan, S. D.**, *Huang, J., Khan, A. S., Kasi, A., 2017. Active tectonic deformation of the western Indian plate boundary: A case study from the Chaman Fault System. *Jour. of Asian Earth Sciences*, 452-468, DOI; 10.1016/j.jseaes.2017.08.006
- *Abir, I., **Khan, S. D.**, Aziz, G., Tariq, S., 2017. Bannu Basin, fold-and-thrust belt of northern Pakistan: Subsurface imaging and its implications for hydrocarbon exploration. *Marine and Petroleum Geology*, 85, 242-258; doi:10.1016/j.marpetgeo.2017.05.023
- *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

Synergistic Activities

1. Fellow of the Geological Society of America (2016)
2. Faculty Undergraduate Advisor (10/2012-8/2016); Faculty Graduate Advisor (9/2016-
3. Co-Editor-in-Chief, *Earth-Science Reviews* (10/2012-present)
4. Chair American Association of Petroleum Geologists, GIS Pub Committee, 2015-2019
5. University of Houston, Teaching Excellence Award, 2014: NSM Butler Teaching Excellence Award, 2017: Undergraduate Research Mentor Award, 2018: Group Teaching Excellence Award for Geophysical Field Camp, 2019

Thesis Advisor and Postgraduate-Scholar Sponsor:

Postgraduate-Scholar (total postdoctoral scholars 8): Dr. Kahlid Mahmood, Fulbright scholar, 2005; Dr. Noor Jehan, 2008-2009 and Dr. Irshad Ahmad, Fulbright Scholar, 2008-2009; Dr. Akhtar Kassi, Fulbright scholar, 2010-2011; Dr. Huseyin Bayraktar (2010/2011); Dr. Aziz Ozyvas, 2010-2011; Dr. Dewen Du (2013-2-2014); Dr. Abdul S. Khan, Fulbright Scholar, (2013-2014).

Thesis Advisor (* in progress)

Ph.D. Geology/Geophysics (16 graduated, 5 in progress)

Dr. Richard Engelkemeir; Dr. Lize Chen; Dr. Damayanti Mukherjee; Dr. Sergio Sarmiento; Dr. Aziz Ozyavas; Dr. Ana Petrovic; Dr. Yingqian Xiong; Dr. Shams Ul-Hadi; Dr. Jon Epps; Dr. Ismail Abir; Dr. Kivanc Biber; Dr. Unal Okyay; Dr. Proma Bhattacharya; Dr. Jingqiu Huang; Dr. Lei Sun; Dr.. Diana Krupnik; *Mr. Otto Gadea; *Mr. Aydin Shachtachtinskiy; *Mr. Kamil Qureshi, *Mr Muhammad Qasim, *Mr. Ozzy Tirmizi

MS Geology/Geophysics (22 graduated, 4 in progress)

Mr. Jaime Fernandez; Ms. Sarah Jacobson; Ms. Yardenia Martinez; Ms. Ana Petrovic; Mr. Ron Mart; Ms. Jana Gray; Mr. Scott Falconer; Mr. Maisam Ottoum; Mr. Zheng Huang; Mr. Ismail Abir; Mr. Yahya Abubakar; Mr. Kivanc Biber; Ms. Ayca Karacay; Ms. Jessica Quintanar; Ms. Xu Han; Mr. Kevin Schmidt; Mr. Lei Sun; Mr. Casey Snyder; Ms. Juhi Aggarwal; Ms Virginia Alonso de Linaje; Ms. Wanda Crupa; Mr. Onur Karaca; *Ms. Halina Haider, *Alyssa Alvarado, *Ms Sara Rojas, *Mr. Alvaro Iglesias

BS (Hons) Geology/Geophysics (6 graduated)

Mr. Ezzedeem Alfataierge; Ms. Kirstie Haynie; Ms. Diana Krupnik; Ms. Wanda Crupa; Mr. Evans Onyango; Ms. Ivette Gonzalez