

## Curriculum Vitae



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### Education

2014: **Ph.D.** Stratigraphy, Sedimentology and Petrology of Miocene-Pleistocene Succession, Pishin Belt, Balochistan, Pakistan.  
Centre of Excellence in Mineralogy, University of Balochistan, Quetta, Pakistan

2006: **M.Phil.** Title: Sedimentology and Petrology of the Oligocene-Miocene Panjgur Formation southwestern Makran, Pakistan.  
Centre of Excellence in Mineralogy, University of Balochistan, Quetta, Pakistan

2002: **M.Sc.** Geology, (Special paper: Petroleum Geology) Department of Geology, University of Balochistan, Quetta, Pakistan

### Employment

**Professor** (2019- till present): Centre of Excellence in Mineralogy, University of Balochistan, Quetta, Pakistan.

**Associate Professor** (2015-2019): Centre of Excellence in Mineralogy, University of Balochistan, Quetta, Pakistan.

**Assistant Professor** (2007-2015): Centre of Excellence in Mineralogy, University of Balochistan, Quetta, Pakistan.

**Lecturer** (2003- 2007): Department of Geology, University of Balochistan, Quetta, Pakistan.

### List of publications

- 26- Muhammad, B. Khan, S., Mohibullah, M., **Kasi, A. K.**, Jan, I. U., Ghani, M., Hussain, H. S. **2018.** Planktonic foraminiferal biostratigraphy and depositional setting of the Cretaceous Parh Limestone, Quetta, western Sulaiman Fold-Thrust Belt, Balochistan, Pakistan. *Journal of Himalayan Earth Sciences*, 51, 8-23.
- 25- Babar, N., Mohibullah, M., **Kasi, A. K.**, Ali, N., Khan, A. **2018.** Foraminiferal Biostratigraphy of the Eocene Kirthar Formation, western Sulaiman Fold-Thrust Belt, Balochistan, Pakistan. *Journal of Himalayan Earth Sciences*, 51, 66-77.
- 24- Rehman, H., Mohibullah, M., **Kasi, A. K.**, Hussain, H. S. **2018.** Foraminiferal Biostratigraphy of the Dungan Formation, Harnai area, western Sulaiman Fold-Thrust Belt, Pakistan. *Journal of Himalayan Earth Sciences*, 51, 34-43.
- 23- Crupa W. E., Khan S. D., Huang J., Khan A. S., **Kasi A. K.**, **2017.** Active tectonic deformation of the western Indian plate boundary: A case study from the Chaman Fault System. **Journal of**

- 22- **Kasi, A. K.**, *Kassi, A. M., Umar, M., Friis, H., Mohibullah, M., Manan R. A.*, **2017**. Paleogeographic and Depositional Model for the Neogene fluvial succession, Pishin Belt Northwest Pakistan: the effect of post collisional tectonics on sedimentation in peripheral foreland setting. **Acta Geologica Sinica-English Edition**, 92, 499-518.
- 21- *Kassi, A. K., Bayraktar, H., Khan, S.*, **Kasi, A. K.** **2017**. Recurring emergence of the mud islands on shelf of the Arabian Sea along the Makran Coast of Pakistan - Historical perspective using remote sensing techniques. **Journal of the Geological Society of India**, 90, 201-208.
- 20- **Kasi, A. K.**, *Kassi, A. M., Friis, H., Manan R. A.*, **2017**. Petrology and provenance of the Neogene fluvial succession in Pishin Belt (Katawaz Basin) western Pakistan: Implications for sedimentation in peripheral forelands basins. **Geosciences Journal**, 21(2), 149-166.
- 19- *Huang J., Khan, S. D., Ghulam, A., Crupa, W., Abir, I., Khan, A., Kakar, D.*, **Kasi, A.**, *Kakar, N.* **2016**. Study of Subsidence and Earthquake Swarms in the Western Pakistan. **Remote Sensing** 8.11: 956
- 18- *Kakar D. M.*, **Kasi, A. K.**, *Kassi, A. M., Friis, H., Mohibulla M.* **2016**. Petrography and Whole-Rock Geochemistry of the Oligocene-Miocene Khojak Formation Khojak-Pishin Belt, Pakistan: Implications on Provenance and Source Area Weathering. **Journal of Himalayan Earth Sciences** 49, 137-157.
- 17- **Kasi, A. K.**, *Kassi, A. M., Friis, H., Umar M., Mohibulla, M., Kakar, M. I.*, **2016**. Detrital Mode and Whole-Rock Geochemistry of the Miocene-Pliocene Fluvial Succession, Pishin Belt, Pakistan: Implications on Provenance and Source Area Weathering in peripheral foreland basins. **Arabian Journal of Geosciences** 9(5), 1-21.
- 16- *Bukhari, S. W. H., Mohibulla, M.*, **Kasi, A. K.**, *Iqbal, H.* **2016**. Biostratigraphy of the Eocene Nisai Formation in Pishin Belt, Western Pakistan. **Journal of Himalayan Earth Sciences**, **49**,
- 15- *Kassi, A. M., Grigsby, J. D., Khan, A. S.*, **Kasi, A. K.** **2015**. Sandstone petrology and geochemistry of the Oligocene–Early Miocene Panjgur Formation, Makran accretionary wedge, southwest Pakistan: Implications for provenance, weathering and tectonic setting. **Journal of Asian Earth Sciences**, 105, 192-207.
- 14- *Kakar, M. I., Mahmood, K., Arif, M., Khan, M., Kerr, A. C., Mohibullah, M., &* **Kasi, A. K.** **2015**. Petrology and geochemistry of mafic dykes from the Muslim Bagh Ophiolite (Pakistan): implications for petrogenesis and emplacement. **Turkish Journal of Earth Sciences**, 24(2), 165-178.
- 13- **Kasi, A. K.**, *Kassi, A. M., Friis, H., Kakar, M. I., Manan, R. A.*, **2014**. Clay minerals assemblage in the Neogene fluvial succession of the Pishin Belt, Pakistan: implications for provenance. **Journal of Himalayan Earth Science**, 47(2), 63-73.
- 12- *Kassi, A. M., Khan, S. D., Bayraktar, H.*, **Kasi, A. K.**, **2013**. Newly discovered mud volcanoes in the Coastal Belt of Makran, Pakistan—tectonic implications. **Arabian Journal of Geosciences**, 1-11.
- 11- *Kassi, A. M.*, **Kasi, A. K.**, *Friis, H., Kakar, D. M.*, **2013**. Occurrences of rock-fulgurites associated with steel pylons of the overhead electric transmission line at Tor Zavar, Ziarat

District and Jang Tor Ghar, Muslim Bagh, Pakistan. **Turkish Journal of Earth Sciences**, 22, 1010-1019.

- 10- *Kassi, A. M., Kasi, A. K., McManus J., Khan, A. S., 2013.* Lithostratigraphy, petrology and sedimentary facies of the Late Cretaceous-Palaeocene Ispikan Group, southwestern Makran, Pakistan. **Journal of Himalayan Earth Sciences**, 46, 49-63.
- 9- *Kakar, M. I., Mahmood, K., Khan, M., Kasi, A. K., Manan, R. A., 2013.* Petrology and geochemistry of gabbros from the Muslim Bagh Ophiolite: implications for their petrogenesis and tectonic setting. **Journal of Himalayan Earth Sciences**, 46, 19-30.
- 8- *Kasi, A. K., Kassi, A. M., Umar, M., Manan, R. A., Kakar, M. I., 2012.* Revised Lithostratigraphy of the Pishin Belt, northwestern Pakistan. **Journal of Himalayan Earth Sciences**, 45, 53-65.
- 7- *Kassi, A. M., Kasi, A. K., Khan, A. T., Khan, A. S., 2012.* Comments on the eruption of basaltic magma at Tor Zawar, Balochistan, Pakistan on 27 January 2010, with a discussion of the geochemical and petrological constraints on its petrogenesis. **Mineralogical Magazine**, 76, 717–723.
- 6- *Manan, R. A., Kassi, A. M., Kasi, A. K., 2012.* Petrology and provenance of the sandstone channel succession within the Jurassic Loralai Formation, Sulaiman Fold-Thrust Belt, Pakistan. **Journal of Himalayan Earth Sciences**, 45, 1-16.
- 5- *Kakar, M. I., Mahmood, K., Collins, A. S. Khan, M. Shah, M. T., Kasi, A. K., 2012.* Geochemistry and Petrogenesis of volcanic rocks from the Bagh complex, northern Balochistan, Pakistan. **Journal of Himalayan Earth Sciences**, 45, 17-29.
- 4- *Kassi, A. M., Khan, A. S., Kelling, G., Kasi, A. K., 2011.* Facies and cyclicity within the Oligocene-Early Miocene Panjgur Formation, Khojak–Panjgur Submarine Fan Complex, south-west Makran, Pakistan. **Journal of Asian Earth Sciences**, 41, 537-550.
- 3- *Umar, M., Friis, H., Khan A., S., Kassi, A., M., Kasi A., K., 2010.* The effects of diagenesis on the reservoir characters in sandstones of the Late Cretaceous Pab Formation, Kirthar Fold Belt, southern Pakistan. **Journal of Asian Earth Sciences**, 40, 622–635.
- 2- *Kassi, A., M., Kelling G., Kasi A., K., Umar, M., Khan A., S., 2009.* Contrasting Late Cretaceous–Palaeocene lithostratigraphic successions across the Bibai Thrust, western Sulaiman Fold–Thrust Belt, Pakistan: Their significance in deciphering the early-collisional history of the NW Indian Plate margin. **Journal of Asian Earth Sciences** 35, 435–444.
- 1- *Kassi, A., M., Khan A., S., Kasi A., K., 2007.* Newly proposed Cretaceous-Palaeocene lithostratigraphy of the Ispikan-Wakai area, southwestern Makran, Pakistan. **Journal of Himalayan Earth Sciences**, 40, 25-31.

#### **Conference proceedings**

- 7- *Rehman, F., Kasi, A. K., and Mohibullah, M., 2018.* Lithofacies Association and Depositional Environment of Bostan Formation, Pishin belt, Balochistan, Pakistan. Earth Sciences Pakistan Conference 2018. **Journal of Himalayan Earth Sciences, Proceedings.**

- 6- *Manan, R. A., Khan, A. S., Farooqui, M.A., **Kasi A. K.** 2017.* Depositional Environment of Dilband Ironstones, Kalat District, Pakistan. International Conference on Mining & Fuel Industries (CMFI-2017) Karachi. Abstract volume
- 5- ***Kasi, A. K.**, Kassi, A. M, Friis, H., Umar Muhammad, Mohibullah, M., Kakar, M. I. 2016.* Petrology and Geochemistry of the Miocene-Pliocene Fluvial Succession, Katawaz Basin, Western Pakistan: Implications on Provenance and Source Area Weathering Pakistan, Earth Sciences Pakistan Conference 2016. Journal of Himalayan Earth Sciences, Proceedings.
- 4- ***Kasi, A. K.**, Kassi, A. M, Friis, H., Umar Muhammad, 2014.* Lithofacies Associations and Depositional Environments of the Neogene Siliciclastic Succession, Pishin Belt, Pakistan, Earth Sciences Pakistan Conference 2014, Journal of Himalayan Earth Sciences, Proceedings.
- 3- ***Kasi, A. K.**, Kassi, A. M, Friis, H., Manan, R. A., 2012.* Sandstone and conglomerate petrology of the Neogene succession, Pishin Belt, northwestern Pakistan. Journal of Himalayan Earth Sciences, Proceedings 45, (2), 70.
- 2- *Manan, R. A., Kassi, A. M., Friis, H., **Kasi, A. K.**, 2012.* Geochemistry of the sandstone of Jurassic Loralai Formation, Sulaiman Fold-Thrust Belt, Pakistan: Implications for provenance and source area weathering. Journal of Himalayan Earth Sciences, Proceedings 45, (2), 40.
- 1- *Kassi, A. M., **Kasi, A. K.**, Friis, H., Kakar, D. M., 2012.* The study of basaltic magma eruption at the Tor Zawar, Ziarat, Pakistan. Journal of Himalayan Earth Sciences, Proceedings 45, (2), 71.

### Supervision:

#### **Ph.D./M.Phil projects supervised/co-supervised in progress:**

1. Petrology, Detrital Modes and Geochemistry of the Sandstones of Jurassic through Pleistocene successions, in the Western Sulaiman Fold-Thrust Belt, Pakistan (Ph.D. Scholar: Shazia Fareed)
  2. Detrital Modes and Provenance of the Jurassic Sandstone in Western Sulaiman Fold-Thrust-Belt, Pakistan (MS Scholar: Muhammad Ismail)
  - 3- Provenance and Depositional Environment of the Bostan Formation, Sulaiman fold-thrust belt, Balochistan, Pakistan (Scholar: Fazal Davi, in progress)
  - 4- Clay Mineralogy and Geochemistry of Mudstones of the Ghazij formation, Kach-Ziarat valley, Balochistan, Pakistan (Scholar: Arif Mirwani, in progress)
- Stratigraphy and Sedimentology of the Quaternary succession of the Hanna Spin Karez area, Quetta District, Pakistan (Scholar: Naseer Kakar, in progress)

#### **M.Phil/MS projects supervised/co-supervised completed:**

1. Development and Evolution of Alluvial Fan System along Chaman Fault (Scholar: Muhammad Ashraf)
2. Foraminiferal Biostratigraphy of Parh Limestone, western Sulaiman Fold-Thrust Belt, Balochistan, Quetta district, Pakistan (Scholar: Baz Muhammad,)
3. Foraminiferal Biostratigraphy of Dungan Formation, western Sulaiman Fold-Thrust Belt, Balochistan, Pakistan. (Scholar: Habib ur Rehman,)
4. Biostratigraphy of Kirthar Formation, western Sulaiman Fold-Thrust Belt, Balochistan, Pakistan (Scholar: Najeeb Babar,)
5. Biostratigraphy and micro-facies of the Nisai Formation, Qilla Saifullah district, Pishin

- Belt, Pakistan (Scholar: Wajid Hanif Bukhari, completed)
6. Sandstone Petrology and Provenance of the Urak Group, Zarghun Trough, Balochistan, Pakista. (Scholar: Rahim Ud Tareen, completed)
  7. Sandstone Petrology and Provenance of the Eocene Ghazij Formation around Zarghun Trough, NE of Quetta, Pakistan (Scholar: Tahir Iqbal, completed).

**Projects: 2013-2016.** Co-Principal Investigator in Neotectonic and Earthquake-Hazard Studies of the Chaman Fault, Western Pakistan. A Project between CEM and University of Houston, TX. USA.

**Courses being taught:** Continental Environments and facies. Research Methodology & Technical Writing

**English Language:** Proficient in oral and written English (TOEFL IBT score: 98/120)

**Countries visited:** USA, Denmark, Spain, and Germany

#### References

**Dr. Henrik Friis** [henrik.friis@geo.au.dk](mailto:henrik.friis@geo.au.dk)

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**Dr. Akhtar Muhamad Kassi** [amkcem1@gmail.com](mailto:amkcem1@gmail.com)

Professor, Department of Earth and Atmospheric Sciences, University of Houston, USA