

Curriculum Vitae

Najeebullah

PERSONAL DETAILS:

Father Name	Din Muhammad
CNIC/Passport	54400-5062475-1/ AD9534754
Date of Birth	5 th Dec 1987
Languages	English, Urdu, Pashto
Nationality	Pakistan
Skills	Remote Sensing, QGIS, Python, Machine learning, Origin Lab, MATLAB, GAMMA, Linux, Satellite image processing
Google scholar	https://scholar.google.com/citations?user=gWgKdC4AAAAJ&hl=en



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QUALIFICATION

COURSE	DEPARTMENT	INSTITUTION	YEAR
PhD	Geological Engineering and Geomatic	Chang'an University, Xi'an China	2025
MS/MPhil	Center of Excellence in Mineralogy	University of Balochistan, Pakistan	2016
BS Geology	Department of Geology	University of Balochistan, Pakistan	2011

PROFESSIONAL EXPERIENCES

Designation	Lecturer (BPS-18)
Organization	Department of Geology, University of Balochistan
Organization Type	University
Tenure	March 2018 to date

Designation	Hydrogeologist (BPS-17)
Organization	Posting/Transfer to World bank Project titled "Balochistan Integrated Water Resources Management and Development Project"
Organization Type	International Development Association
Tenure	Jan 2017 to March 2018

Designation	Assistant Director Geologist (BPS-17)
Organization	Irrigation Department, Government of Balochistan
Organization Type	Government
Tenure	April 2014 to Jan 2017

(May 2013 to May 2014)

Designation	Gemologist
Organization	Pakistan Gems and Jewelry Development Company
Organization Type	Semi-Government
Tenure	May 2013 to May 2014

RESEARCH PUBLICATIONS

- Li, Guangrong, Chaoying Zhao, Bin Li, Ming Yan, Baohang Wang, Jianqi Lou, **Najeebullah Kakar**, and Jiangbo Xi. 2025. "Deformation Monitoring for Mountain Excavation and City Construction Area in Yan'an New District by Improved MT-InSAR Method." *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* 18:18019–30. doi:10.1109/JSTARS.2025.3588158.
- **Najeebullah Kakar**, Chaoying Zhao, Guangrong Li, Zhijie Zhang, and Bright Adoko. 2025. "Spatio-Temporal Analysis of Subsiding Districts in Balochistan, Pakistan Using Multi-Sensor SBAS InSAR and GNSS." *Natural Hazards*. doi: <https://doi.org/10.1007/s11069-025-07226-y>
- Sajid Hussain, Bin Pan, Zeeshan Afzal, Meer Muhammad Sajjad, **Najeebullah Kakar**, Nisar Ahmed, Wajid Hussain, and Muhammad Ali. 2025. "SBAS-InSAR Analysis of Tectonic Derived Ground Deformation and Subsidence Susceptibility Mapping via Machine Learning in Quetta City, Pakistan." *International Journal of Digital Earth* 18(1):2441926. doi: <https://doi.org/10.1080/17538947.2024.2441926>
- Basit Ali Khan, Chaoying Zhao, **Najeebullah Kakar**, and Xuerong Chen. 2025. "SBAS-InSAR Monitoring of Landslides and Glaciers Along the Karakoram Highway Between China and Pakistan." *Remote Sensing* 17(4):605. <https://doi.org/10.3390/rs17040605>
- **Najeebullah Kakar**, Chaoying Zhao, Guangrong Li, Haolin Zhao. (2024). GNSS and Sentinel-1 InSAR Integrated Long-Term Subsidence Monitoring in Quetta and Mastung Districts, Balochistan, Pakistan. *Remote Sensing*, 16(9), 1521. <https://doi.org/10.3390/rs16091521>
- Noor Ullah, **Najeebullah Kakar**, Din Muhammad Kakar. (2021). Fault Control on Groundwater Flow in An Alluvial Aquifer, Chaman and Khojak Basins, Balochistan, Pakistan. *Int. j. econ. environ. geol.* Vol:12 (2). 45-49,2021. <https://doi.org/10.46660/ijeeg.Vol12.Iss2.2021.586>
- Gerardo Herrera-García, Pablo Ezquerro, Roberto Tomás, Marta Béjar-Pizarro, Juan López-Vinielles, Mauro Rossi, Rosa M. Mateos, Dora Carreón-Freyre, John Lambert, Pietro Teatini, Enrique Cabral-Cano, Gilles Erkens, Devin Galloway, Wei-Chia Hung, **Najeebullah Kakar**, Michelle Sneed, Luigi Tosi, Hanmei Wang, Shujun Ye (2020). Mapping the global threat of land subsidence. *Science*, 371(6524), 34–36. <https://doi.org/10.1126/science.abb8549>
- Sadia Barrech., Syed Ainuddin., & **Najeebullah Kakar**. (2018). Multi-Dimensional Implication of Water Scarcity on Inhabitants of District Quetta, Balochistan, Pakistan.

Pakistan Journal of Applied Social Sciences, 8(1), 59-72.

<https://doi.org/10.46568/pjass.v8i1.322>

- Roger Bilham, **Najeebullah Kakar**, Din Mohammad Kakar, Kang Wang, Roland Bürgmann, William D. Barnhart (2019). The 1892 Chaman, Pakistan, Earthquake. *Seismological Research Letters*, 90(6), 2293–2303. <https://doi.org/10.1785/0220190148>
- Huang, Jingqiu, Shuhab D. Khan, Abduwasit Ghulam, Wanda Crupa, Ismail A. Abir, Abdul S. Khan, Din M. Kakar, Aimal Kasi, and **Najeebullah Kakar**. "Study of Subsidence and Earthquake Swarms in the Western Pakistan." *Remote Sensing* 8, no. 11 (2016): 956. <https://doi.org/10.3390/rs8110956>
- **Najeebullah Kakar**, Din Mohammad Kakar, Abdul Salam Khan, Shuhab D. Khan "Land Subsidence Caused by Groundwater Exploitation in Quetta Valley, Pakistan" *Int. j. econ. environ. geol.* Vol:7(2) 10-19, 2016. DOI: <https://doi.org/10.46660/ijeeg.Vol0.Iss0.0.83>

INTERNATIONAL PRESENTATIONS

- Oral Presentation on “**Land Subsidence and Earth Fissures caused by Ground Water Exploitation in Quetta Valley, Pakistan**” on 16-17 Nov, 2017 in University of Alicante, Spain.
- Oral Presentation on “**Land Subsidence Caused by Groundwater Exploitation in Quetta and Surrounding Areas, Pakistan**” on 19th Sep, 2019 in Jakarta, Indonesia.
- Taught academic research courses as a tutor at Chang'an University, Xi'an, China, for 3 semesters (2024-25), guiding students in research methodologies and techniques.

AWARDS

- Best presentation award at “**4th National Earth Science Postgraduate Forum**” on 8-10 October, 2024 in Xian, China.
- Winner of the 8th Shaanxi Province Innovation Achievement Exhibition, June 24-26, 2024.

INTERESTS

- Land Subsidence Monitoring, Remote Sensing, InSAR, GIS, and GNSS.