

CURRICULUM VITAE

Name: **Dr. Khalid Omar Murtaza**
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Expertise and Career Summary:

I am currently working as a Contractual Lecturer in the Department of Geoinformatics, University of Kashmir, from the academic session 2017-till to date. My research and teaching interests revolve around Geoinformatics, Glacier Dynamics and Glacial-geomorphology. My research interests include monitoring Himalayan Glaciers using state-of-the-art Earth observation data and ground observations under changing climate. I am currently working on glacial dynamics of Kashmir Himalayas employing remotely sensed data and extensive ground observations with special emphasis on glacier mass balance, glacier-geomorphology, and velocity estimations.

TEACHING EXPERIENCE

- Working as Contractual Lecturer in the department of Geoinformatics, University of Kashmir, from March 2017-till date.
- Worked as Guest faculty in the department of Earth Sciences, University of Kashmir, from March 2014- March 2017.

RESEARCH SUPERVISION

- Have guided **eleven** Master's dissertations on research related to the applications of Geoinformatics in various fields of the Earth Sciences. Currently guiding **two** Master's dissertations.

AWARDS And GRANTS

- Best paper award for **“Anthropogenic climate change drives melting of glaciers in the North-western Himalaya”** presented in one day national workshop on **“Earth Observations for Climate Services”** on 4th May, 2023 at University of Kashmir, Srinagar, organised by National Remote Sensing Centre, **ISRO**, Hyderabad & University of Kashmir, Srinagar.
- **International Travel Grant** by **SERB, DST, GoI** for attending **EGU** training school **“Glaciers, moraines and climate: Challenges of identifying, dating and extracting paleoclimatic data from former glacier fluctuations”** in Scotland, August 2018.

PUBLICATIONS

- **Murtaza, K.O.**, Shafai, S., Peer, S., & Romshoo, S.A., (2023). Understanding the Linkages Between Spatio-temporal Urban Land System Changes and Land Surface Temperature in Srinagar City, India, Using Image Archives from Google Earth Engine. *Environmental Science and Pollution Research*. **(IF: 5.8)**.
- Mir, J.A., Bhat, I.M., **Murtaza, K. O.**, Qadir, W., & Dar, R.A. (2023). Geological Heritage of the Kashmir Valley, North-Western Himalaya, India. *Geoheritage*, 15, 26 **(IF: 2.9)**.
- Romshoo, S. A., Abdullah, T., **Murtaza, K. O.**, & Bhat, M. H. (2023). Direct, geodetic and simulated mass balance studies of the Kolahoi Glacier in the Kashmir Himalaya, India. *Journal of Hydrology*, 617, 129019 **(IF: 6.708)**.

- Romshoo, S.A., **Murtaza, K.O.**, & Abdullah, T. (2022). Towards understanding various influences on mass balance of the Hoksar Glacier in the Upper Indus Basin using observations. *Scientific Reports*, 12(1), 15669 (IF: 4.499).
- Dar, R.A., **Murtaza, K.O.**, Paul, O.J., Nisa, A.U., Akhter, N., Dar, F.A., & Mir, R.A. (2022). River Response to Melting Cryosphere Since Late Quaternary in the Pir Panjal Range of NW Himalaya. *Frontiers in Water* 4:879001.
- Romshoo, S.A., **Murtaza, K.O.**, Shah, W., Ramzan, T., Ameen, U., & Bhat, M.H. (2022). Anthropogenic climate change drives melting of glaciers in the Himalaya. *Environmental Science and Pollution Research*. 29(35), 52732-52751. (IF: 5.8).
- Joya, E., Bromand, M.T., **Murtaza, K.O.**, & Dar, R.A. (2021). Current glacier status and ELA changes since the Late Pleistocene in the Hindu Kush Mountains of Afghanistan. *Journal of Asian Earth Sciences*. 219, 104897. (IF: 3.449).
- Dar R.A., Paul O.J., **Murtaza K.O.**, Romshoo S.A. (2021) Late Quaternary Glacial Geomorphology of Kashmir Valley, NW Himalayas: A Case Study of the Sind Basin. *Water, Cryosphere, and Climate Change in the Himalayas. Geography of the Physical Environment. Springer*. 145-157.
- **Murtaza, K.O.** and Romshoo, S.A., (2020). Applications of glacial geomorphological and lichenometric studies for reconstructing the Late Holocene glacial history of the Hoksar valley, Kashmir Himalaya, India *Geografiska Annaler: Series A, Physical Geography*. 103(1), 51-68. (IF: 1.881).
- **Murtaza, K.O.**, Dar, R.A., Jaan, O., Bhat, N.A and Romshoo, S.A., (2020). Glacial geomorphology and recent glacial recession of the Harmukh Range, NW Himalaya. *Quaternary International*. 575, 236-248. (IF: 2.454).
- **Murtaza, K. O.**, Romshoo, S. A, Rashid, I and Shah, W., (2019). Geo-spatial assessment of groundwater quality in Udhampur Sub-Himalaya, Jammu and Kashmir, India. *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*. 90(5), 883-897. (IF: 0.9).
- **Murtaza, K.O.** and Romshoo, S.A., (2017). Recent glacier changes in the Kashmir Alpine Himalayas, India. *Geocarto International*, 32(2), 188-205. (IF: 4.889).
- Dar, R.A., Jaan, O., **Murtaza, K.O.** and Romshoo, S.A., (2017). Glacial-geomorphic study of the Thajwas glacier valley, Kashmir Himalayas, India. *Quaternary International*. 444, 157-171. (IF: 2.13).
- Romshoo, S.A., Dar, R.A., **Murtaza, K.O.**, Rashid, I. and Dar, F.A., (2017). Hydrochemical characterization and pollution assessment of groundwater in Jammu Siwaliks, India. *Environmental Monitoring and Assessment*, 189(3), (IF: 3.0).
- Rather, M.I., Rashid, I., Shahi, N., **Murtaza, K.O.**, Hassan, K., Yousuf, A.R., Romshoo, S.A. and Shah, I.Y., (2016). Massive land system changes impact water quality of the Jhelum River in Kashmir Himalaya. *Environmental Monitoring and Assessment*, 188(3), (IF: 3.0).
- Khan, Z. L., Rather, M. A., Kuchhy, N. A., Ahmad, U. F., and **Murtaza, K. O.** (2015). Geoinformatics for Cultural Heritage Mapping-A Case Study of Srinagar City, Jammu And Kashmir. *International Journal for Technological Research in Engineering*, 2(7).
- **Murtaza, K. O.**, Rather, M. A., Lateef, Z., Shah, V., and Kuchhay, N. (2015). Geospatial mapping of Srinagar City. *Journal of Geography and Regional Planning*, 8(6), 157-165.
- **Murtaza, K. O.**, and Romshoo, S. A. (2014). Determining the suitability and accuracy of various statistical algorithms for satellite data classification. *International Journal of Geomatics and Geosciences*, 4(4), 585-599.

- **Murtaza, K. O.,** and Romshoo, S. A. (2014). Ground Water Quality Mapping in Shiwalik Himalayas, Jammu using Geostatistical Approach. *Proceeding of impact of climate change on hydrology of Kashmir valley.*
- **Murtaza, K. O.,** and Romshoo, S. A. (2014). Assessing the Impact of Spatial Resolution on the Accuracy of Land Cover Classification. *Journal of Himalayan Ecology & Sustainable Development*, 9, 33-45.