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Supervisor: Dr. Irfan Rashid

Research Area: Glaciology (Glacier lake outburst floods)



Research Interests:

I am a PhD student (INSPIRE Fellow) with interests in Glaciology. Much of my works focuses on understanding the impacts of climate change on glaciers, impact of glacial lakes on glacier dynamics and geohazards in mountain environments (including GLOFs and LLOFs). My current research relates to the proglacial lake evolution, dynamics and GLOF vulnerability over Western Himalaya. I intend to carry out a detailed risk assessment of the moraine-dammed lakes using a multitude of factors that include lake area, lake volume, dam strength, topography and demographic data. The research aims to prioritize proglacial lakes for setting up early warning systems in order to reduce the vulnerability of the downstream population.

Publications :

1. **Majeed U** and Rashid I (2020). Evaluating glacier surges in Karakoram region using earth observation data. Data in Brief, 105394.
<https://doi.org/10.1016/j.dib.2020.105394> (IF-0.9)
2. Rashid I, **Majeed U**, Aneaus S and Pelto M (2020). Linking the Recent Glacier Retreat and Depleting Streamflow Patterns with Land System Changes in Kashmir Himalaya, India. Water, 12(4), 1168.
<https://doi.org/10.3390/w12041168> (IF-2.7)
3. Rashid I, **Majeed U**, Jan A and Glasser NF (2020). The January 2018 to September 2019 surge of Shisper Glacier, Pakistan, detected from remote sensing observations. Geomorphology, 351, 106957.
<https://doi.org/10.1016/j.geomorph.2019.106957> (IF-3.8)
4. Rashid I and **Majeed U** (2018). Recent recession and potential future lake formation on Drang Drung glacier, Zaskar Himalaya, as assessed with earth observation data and glacier modelling. Environmental earth sciences, 77(12), 429.
<https://doi.org/10.1007/s12665-018-7601-5> (IF-2.2)