

MUSTAFA HAMEED BHAT

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Durhama Wagoora
Baramulla, J&K-193103

EDUCATION

PhD University of Kashmir, Geoinformatics (Glaciology), (2020, Pursuing)

Dissertation: “*Unravelling the Glacier Response and Dynamics in the Upper Indus Basin*”

Supervisor: Prof. Shakil Ahmad Romshoo, Professor, VC IUST

MS University of Kashmir, Geoinformatics, April, 2014-April, 2016

Major subjects: Advanced Digital Images Processing, Advanced Geospatial Analysis and Modeling, Geostatistics, GPS, Geodesy and Field Survey, HydroInformtics and Glaciology.

Dissertation: “Assessing the Alpine Vegetation Dynamics over Pir Panjal”

Supervisor: Dr. Irfan Rashid, Assistant Professor, Department of Geoinformatics, University of Kashmir.

Division: 1st division

BS University of Kashmir, Bachelor of Science, 2010-2013

Major subjects: Mathematics, Physics and Geography

Division: 2nd division

RESEARCH EXPERIENCE

I. Master’s dissertation: “**Alpine Vegetation Dynamics over Pir Panjal**”. Department of Earth Sciences, University of Kashmir, Srinagar-19006, 2016

II. **Three -year** research experience as **Junior Research Fellow** at Department of Geoinformatics, University of Kashmir-190006 from **01-12-2017 to 30-11-2020**

Project title: “Integrated Studies on Himalayan Cryosphere” sponsored by **Indian Space Research Organisation (ISRO)**.

III. **Two-year** research experience as Research Fellow at Department of Geoinformatics, from **07-04-2021 to 16-09-2023** under the project

- “Strengthening the Innovative Research in Geomatics, Climate Change and Hydrology” sponsored by **RUSA**
- IV. Working as **Project Associate-I** under the DST sponsored project “Centre of Excellence for Glacial Studies in Western Himalayas” from 11-09-2023 to present

FIELD

EXPERIENCE

- V. I have been to several glacier field expeditions (more than 20) for glacier mass balance and Ice thickness measurements in Kashmir and Zaskar Himalaya since 2015.

PUBLICATIONS

Journal Papers

1. Romshoo, S. A., Ameen, U., **Bhat, M. H.**, & Abdullah, T. (2024). Comprehensive analysis of glacier recession (2000–2020) in the Nun-Kun Group of Glaciers, Northwestern Himalaya. *Journal of Mountain Science*, 21(3), 410-427. (IF: 2.7)
2. Romshoo, S. A., Abdullah, T., Ameen, U., & **Bhat, M. H.** (2024). Glacier thickness and volume estimation in the Upper Indus Basin using modeling and ground penetrating radar measurements. *Annals of Glaciology*, 1-11. (IF: 2.86)
3. Romshoo, S. A., Abdullah, T., Murtaza, K. O., and **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: 6.4)
4. Romshoo, S. A., Murtaza, K. O., and **Bhat, M. H.** (2022). Anthropogenic climate change drives melting of glaciers in the Himalaya. *Environmental Science and Pollution Research*, 29(35), 52732-52751.
5. Romshoo, S. A., Abdullah, T., and **Bhat, M. H.**: Evaluation of the global glacier inventories and assessment of glacier elevation changes over north-western Himalaya, *Earth Syst. Sci. Data Discuss.* (IF: 9.197)

Conferences

6. **Mustafa Hameed Bhat** and Irfan Rashid “Assessing The Alpine Vegetation Dynamics Over Pir Panjal Mountain Range Using Earth Observation Data and Geospatial Modelling”. 13th JK Science Congress-2018 at University of Kashmir, Srinagar.02-04 april 2018.
7. **Mustafa Hameed Bhat** and Shakil A. Romshoo “Understanding the Glacier Dynamics in the Chenab Basin, J&k, India”. National

Symposium on Innovations in Geospatial Technology for Sustainable Development with Special Emphasis on NER and Annual Conventions on Indian Society of Geomatics and Indian Society of Remote Sensing at North Eastern Space Application Centre (NESAC), Department of Space and North Eastern Hill University (NEHU), November 20-20,2019.

8. **Mustafa Hameed Bhat**, Shakil A. Romshoo and I. M. Bahugna “Satellite Observed glacier Shrinkage and Velocity Changes over Chenab Basin, North Western Himalaya” National Symposium on Remote Sensing for Environment Monitoring and Climate Change Assessment: Opportunities and Challenges, December 18-19, 2020, SAC-ISRO, Ahmedabad, India

**PROFESSIONAL
TRAINING AND
WORKSHOPS**

1. 21-days workshop “Summer School in Glaciology” at Centre of Excellence for Glacial Studies, University of Kashmir, Srinagar. 10-30 Sept. 2023
2. Training on “**Cryospheric Applications using Space Based Observations**” at Space Application Centre (ISRO), Ahmedabad from 04 to 12 October, 2017.
3. Two days workshop on “GIS for Tourism Development” at Deptt. Of Earth sciences, University of Kashmir Srinagar.
4. Two days workshop on “Water Resources-Threats and Challenges”. at Deptt. Of Environmental Sciences, University of Kashmir, Srinagar. 22-23 March 2017.

**MEMBERSHIP OF
SCIENTIFIC
SOCIETIES**

- a. Life member, Indian Society of Geomatics (ISG)

LANGUAGES

English, Kashmiri, Urdu and

**COMPUTER
SKILLS**

Applications: MS Office (word, Excel, Power point and Access).
Image processing and GIS application softwares: ERDAS, ENVI, ArcGIS and QGIS

