

DR. MOHD RAMIZ

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ACADEMIC

- **PhD** 2021 from Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, India. PhD Title “*An Analysis of The Health of Glaciers in Garhwal Himalaya, Uttarakhand*”
- **M.A.** in Geography with First division (70%) in 2012 from Faculty of Natural Science, Jamia Millia Islamia, New Delhi, India.
- **B.A.** (Geography, Mathematics, Psychology & English) in 2010 with 74% from Mahatma Jyotibha Phule Rohilkhand University (MJPRU), Bareilly, Uttar Pradesh, India
- **12** (Physics, Chemistry, Maths, English & Hindi) with 66% in 2005
- **10** (Maths, Science, Social Studies, English & Hindi) with 69% in 2003

ACADEMIC ACHIEVEMENTS /AWARDS

- Awarded with Best Paper Presentation Award (Paper Title - *Spatial prediction of landslide susceptible zones along Rishikesh-Badrinath National Highway by using Machine-learning and Deep-learning methods*) in **National Conference on Transforming India – Risk to Resilience**, jointly organised by the Special Centre for Disaster Research (SCDR), Jawaharlal Nehru University (JNU) and the Disaster Management Initiatives and Convergence Society (DMICS) during March 15-17, 2023.
- UGC NET-SRF 2017-2019
- UGC NET-JRF 2015-2017
- 2nd Topper in M.A. (Geography)
- Awarded with Merit Scholarship During M.A. (Geography), 2011
- Awarded with **Bareilly College Gold Medal**, 2010 for securing highest marks in B.A.
- Awarded with **Templeton Gold Medal**, 2010 for securing highest marks in B.A. III year
- Awarded with **Shri Dayasaran Memorial Gold Medal** for securing highest marks in Psychology in B.A.

- Awarded with **Smt. Taradevi Scholarship, Smt. Kamla Devi, Shri Harish Chandra Verma Memorial Scholarship**, 2010 for securing highest marks in B.A.
- Awarded with **Smt. Harpyari Devi Seth Hirdaya Narayan Book Award**, 2010 for securing highest marks in B.A.

RESEARCH EXPERIENCE

- **02 years (11.05.2021 to 10.05.2023)** Worked as a **Research Associate** in a Department of Geography, Jamia Millia Islamia, New Delhi in a Department of Science & Technology (DST) funded project. The title of the project was ***“Investigation of Rainfall induced landslides and assessment of Risk of the selected landslides along Rishikesh-Badrinath highway in Garhwal Himalaya”***
- **21 September 2023 to present-** working as a Research Associate – II, Cryospheric Research Lab, Department of Science & Technology (DST)’s Center of Excellence in Water Resource, Cryospheric and Climate Change Studies, Department of Geology, Sikkim University, Gangtok, Sikkim.

RESEARCH FIELD

Glacier Studies- Mass Balance Measurement, Debris Cover Mapping, Geomorphology, Landslide studies, Climate change studies, Hydrological Studies, Remote Sensing (Optical & Microwave Remote Sensing) & GIS, Data Analysis – Machine Learning Techniques and Mathematical Modelling.

SOFTWARE PROFICIENCY

Erdas Imagine 2015, Envi 5.5, Arc Map 10.4, QGIS, RStudio, Google Earth Engine, SNAP

TRAINING

- Attended 3-week DST-Funded ‘**Summer School in Geospatial science and Technology (Level 2)**’ in “**Mountain Disaster Management-Landslide**” during 02 – 22 June 2022 organised by Chitkara University, Solan, Himachal Pradesh.
- Training on **Cryospheric Applications**, 2019 (Space Application Centre, Ahmedabad, Gujarat, India)
- Training on **Microwave Remote Sensing & Applications**, 2019 (NRSC, Hyderabad, Telangana, India)

- Training on **Glacier, Climate Change and Remote Sensing**, 2015 (IISc, Bangalore, Karnataka, India)
- Training in **Remote Sensing and Geographic Information Systems**, 2012 (RRSC, Kolkata, West Bengal, India)

PAPER PRESENTED IN CONFERENCES (12)

Twelve papers were presented in International and National Conferences

1. Paper titled “***Spatial prediction of landslide susceptible zones along Rishikesh-Badrinath National Highway by using Machine-learning and Deep-learning methods***” presented in National Conference on Transforming India – Risk to Resilience, jointly organised by the Special Centre for Disaster Research (SCDR), Jawaharlal Nehru University (JNU) and the Disaster Management Initiatives and Convergence Society (DMICS) during March 15-17, 2023.
2. Paper titled “***Identification and Mapping of Potential Glacial lake Outburst Flood (GLOFs) in Suru Basin***” presented in National Conference on Transforming India – Risk to Resilience, jointly organised by the Special Centre for Disaster Research (SCDR), Jawaharlal Nehru University (JNU) and the Disaster Management Initiatives and Convergence Society (DMICS) during March 15-17, 2023.
3. Paper titled “***Temporal Assessment of Land Surface Temperature and its association with Built up and Green cover over Asansol and Durgapur Development region, India***” presented in National Conference on Transforming India – Risk to Resilience, jointly organised by the Special Centre for Disaster Research (SCDR), Jawaharlal Nehru University (JNU) and the Disaster Management Initiatives and Convergence Society (DMICS) during March 15-17, 2023.
4. Paper titled “***Machine-learning and Deep-learning Based Spatial prediction of landslide hazard along Rishikesh-Badrinath National Highway***” presented in National Conference on **Landslide Risk Assessment and Mitigation in India**, organised by Department of Geography, Jamia Millia Islamia, New Delhi during November 01-02, 2022.
5. Paper titled “***Prediction of Landslide Susceptible zones along Rishikesh-Badrinath National Highway (Uttarakhand) by Applying Multi-criteria Decision Making (MCDM) approach***” presented in National Conference on **Landslide Risk Assessment and**

Mitigation in India, organised by Department of Geography, Jamia Millia Islamia, New Delhi during November 01-02, 2022.

6. Paper titled “**Measurement of Glaciers area change in Garhwal Himalaya from 1968 to 2018**” presented in International Conference on **Challenges of Disasters: Vulnerability, Adaptation and Resilience**, organised by Centre for Disaster Management, Department of Geography, Jamia Millia Islamia, New Delhi during March 02-03, 2021.
7. Paper titled “**Machine Learning Based Snow Line Identification and Temporal analysis in Upper-Alaknanda Saraswati Basin, Garhwal Himalaya**” was presented in **Young Polar Scientist Meet (YPSM)** as a Poster Presentation, organized by National Centre for Polar and Ocean Research (NCPOR), Goa, India during 20-22 August 2019.
8. Paper titled “**Machine Learning Based Classification of Natural Resources**” presented in 2nd Doctoral Symposium organized by NIIT Neemrana, Rajasthan, India 6-7 April 2019.
9. Paper titled “**Identification, mapping and morphological measurement of drumlins near Satopanth Glacier**” presented in the 30th IGI Conference organized by Department of Geography, Jamia Millia Islamia, New Delhi, India 3-5 October 2018.
10. Co-Author in the paper “**Assessment of Agricultural Biomass in Gorakhpur district of Uttar Pradesh**” presented in the National Conference organized by Department of Geography, Jamia Millia Islamia, and New Delhi, India 7-8 February 2017.
11. Co-Author in the paper “**An Identification, mapping and monitoring of Inland Wetland of Azamgarh district, Uttar Pradesh**” presented in the National Conference organized by Department of Geography, Jamia Millia Islamia, New Delhi, India 7-8 February 2017.
12. Paper “**Glacial retreat study of Arwa Glacier, Alaknanda Basin – A Geoinformatics Approach**” presented in the National Conference organized by Department of Geography, Jamia Millia Islamia, and New Delhi, India 7-8 February 2017.

PAPER PUBLISHED (3)

- **Ramiz Mohd**, Siddiqui M. A. and Haq M. A., 2020 “**An Assessment of the Snout Behaviour of Satopanth and Bhagirathi Kharak glacier, Garhwal Himalaya**”, Hill Geographer Vol 36:1, pp 17-33.
- Tania Nasrin, **Mohd Ramiz**, Md Nawaj Sarif, Mohd Hashim, Masood Ahsan Siddiqui, Lubna Siddiqui, Sk Mohibul and Sakshi Mankotia, 2023 “**Modeling of impact assessment of super cyclone Amphan with machine learning algorithms in Sundarban Biosphere Reserve, India**”, Natural Hazards, <https://doi.org/10.1007/s11069-023-05935-w>.

- **Ramiz, Mohd;** Siddiqui, Masood; Salman, Mohd Sadiq; Siddiqui, Lubna; Tahir, Mary; Naqvi, Hasan; Shakeel, Adnan; (2023) **Landslide susceptibility mapping along Rishikesh–Badrinath national highway (Uttarakhand) by applying multi-criteria decision-making (MCDM) approach.** Environmental Earth Sciences. 82. 10.1007/s12665-023-11268-5.

PAPER UNDER REVIEW (04)

- Paper “Landslide Susceptibility Mapping in Dima Hasao District of Assam, India using Frequency Ratio Model” (Geo Journal, Springer Nature).
- Paper “Prediction of Landslide Susceptible zones in Dima Hasao District of Assam, India by Integrating Remote Sensing, GIS and Random Forest model” (Advances in Space research, Elsevier).
- Paper “Assessing Glacial Lake Outburst Flood (GLOF) Hazards and Risks in the Changme Khangpu Basin, Sikkim Himalaya: A Multi-Criteria Decision Analysis (MCDA) Approach” (Environmental Earth Sciences).
- Paper "Measuring Urban Sprawl Dynamics in Jaipur City using GIS and Principal Component Analysis techniques" (Geo Journal, Springer).

OTHER CURRICULAR ACTIVITIES

- Conducted field survey on Satopanth and Bhagirathi Kharak glacier three times up to the elevation of 5000 meter.
- Played football and volleyball at the university level.
- Love trekking and camping at high altitude

REFERENCES

1. Dr. Masood Ahsan Siddiqui

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