

Curriculum Vitae

Dr. Bilquis Shah

Doctorate, MSc (Geography), BSc

Department of Geography and Disaster Management

University of Kashmir

Srinagar, India

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Whether differently abled (YES/NO): No

Research gate: <https://www.researchgate.net/profile/Bilquis-Shah>

Key Skills:

- *GIS and Remote Sensing*
 - *Digital Image Processing*
 - *Landslide Hazard Studies*
 - *Command on softwares; Arc GIS, Erdas Imagine, QGIS, SPSS, XLSTAT, R-Studio, Colab-Pythaon Programming, MS Excel*
 - *Disaster risk mitigation*
 - *Urban planning*
 - *Research analyst*
 - *Land Suitability analyst*
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Research Interest Area

My research is centred on mitigating the impacts of natural hazards, with a particular focus on landslides. I have worked extensively on landslide hazard mitigation, concentrating on developing and implementing early warning systems to reduce the adverse effects of landslides on communities and infrastructure. Additionally, my interests encompass a broad range of studies related to urban drainage systems, analyzing and improving urban drainage to prevent flooding and water-logging in urban areas, ensuring sustainable water management practices. My research includes investigating the impacts of climate change on natural and human systems, and developing strategies for adaptation and mitigation. I study the interactions and combined effects of multiple natural hazards, and develop comprehensive risk assessment and management strategies. Furthermore, I utilize advanced modelling techniques to predict and plan for natural disasters, aiming to enhance preparedness, response, and recovery efforts.

Professional Experience

Assistant Professor (Cont.) at Kashmir University

2026-Present

Lecturer at Cluster University Srinagar, JK

2024 -2025

Masters Dissertation Guide at IGNOU: Comprehensive mentorship provided to over 40 masters's students in the subject of geography, focusing on research design, methodology refinement, and scholarly writing, ensuring timely submission and publication-quality output.

General Teaching

Year 2018

Education

Name of Examination	Board/University/Institution	Subjects	Year of passing	Percentage
Ph.D	University of Kashmir	Geography	2024	Awarded on 24 th June 2024
M.Sc	University of Kashmir	Geography	2018	81.5%
B.Sc	University of Kashmir	Geography, Physics, Mathematics, English	2015	62.33%
Intermediate (12 th)	JKBOSE	English, Physics, Chemistry, Computer Science Mathematics	2011	75.6%

Ph.D Thesis title

Rainfall Threshold Based Landslide Early Warning System For The Kashmir Himalayas

Guide: Prof. Mohammad Sultan Bhat, Department of Geography and Disaster Management

Academic merit achievements

- *Attended the G-20 Youth Consultation meet as scholar participant venue Kashmir University Aug 20, 2023*
- *Poster presentation in 7th Annual Convention of the Indian Society of Earthquake 25th-28th May, 2023-University of Kashmir*
- *Awarded **second prize** in the poster presentation on International Disaster Risk Reduction Day (13 Oct. 2022) conducted by Department of Geography and disaster Management University of Kashmir*
- ***Third Prize** in Debate on International Disaster Risk Reduction Day (13 Oct. 2022) conducted by Department of Geography and disaster Management University of Kashmir*
- *Attended the **5th World Congress** on Disaster Management held at Indian Institute of Technology (IIT), Delhi, from 24th -27th November 2021*
- *Qualified the Geospatial Technologies and Application Course with **Distinction** of National Remote Sensing Centre - Indian Space Research Organization (ISRO) Hyderabad, Department of Space, Govt. of India, 2020*

- *Awarded with the University Grants Commission- Junior Research Fellowship from 2019 to 2023*
- *Qualified NET-Junior Research Fellowship (JRF) in 2019 for Doctoral Program and Assistant Professorship conducted by University Grants Commission*
- *Qualified “National Eligibility Test for Assistant Professorship” in 2018 conducted by University Grants Commission (Top 1%)*

Reviewing activities

Urban Water Journal Taylor and Francis

Journal of Heritage Management Sage Publications

Natural Hazards Springer

Research Publications: No. of Publications: 15

1. Malik, U. F., & Shah, B. (2025). Analyzing the environmental factors influencing sustainable agricultural development of Northern Kashmir. *Environment, Development and Sustainability*, 1-31.
2. Ali, N., Bhat, M. S., Alam, A., **Shah, B.**, & Sheikh, H. A. (2025). Simulating the future flood events and their impacts on critical infrastructure in Srinagar: a Himalayan urban centre. *Natural Hazards*, 1-34.
3. **Shah, B.**, Bhat, M. S., Alam, A., Malik, U. F., Ali, N., & Sheikh, H. A. (2024). Establishing the landslide-triggering rainfall thresholds for the Kashmir Himalaya. *Natural Hazards*, 120(2), 1319-1341.
4. Malik, U.F., **Shah, B.**, Nusrath, A., & Bhat, M.(2024). Deciphering agricultural growth trends: a case study of Kupwara District in the Kashmir valley. *International Journal of Research in Engineering and Science (IJRES)*, 12 (9) , 144-150.
5. Malik, U.F., **Shah, B.**, Nusrath, A., & Bhat, M.(2024). Zone-wise Assessment of Fruit Crop Concentration and Horticultural Efficiency in Kupwara District. *International Journal of Research in Engineering and Science (IJRES)*, 12 (9), 151-156.
6. **Shah, B.**, Alam, A., Bhat, M. S., Ahsan, S., Ali, N., & Sheikh, H. A. (2023). Extreme precipitation events and landslide activity in the Kashmir Himalaya. *Bulletin of Engineering Geology and the Environment*, 82(8), 328.
7. **Shah, B.**, Bhat, M. S., Alam, A., Ahmad Sheikh, H., & Ali, N. (2023). Impact of urban growth on the natural drainage network of the Srinagar city. *Urban Water Journal*, 20(3), 352-365.
8. Sheikh, H. A., Bhat, M. S., Alam, A., Ahsan, S., & **Shah, B.** (2023). Modeling runoff responses to 1.5 C and 2 C rise in temperature in snow-fed basin of western Himalayas. *Sustainable Water Resources Management*, 9(4), 127.
9. Malik, U. F., **Shah, B.**, & Noureen. (2023). Resilient Urban Heritage: Vulnerability Assessment and Evaluation of Conservation Strategies for Disaster Risk Reduction of Srinagar City. *Journal of Heritage Management*, 8(1), 43-63.
10. Sheikh, H. A., Bhat, M. S., Alam, A., Ahsan, S., & **Shah, B.** (2023). Evaluating the drivers of groundwater spring discharge in Sindh basin of Kashmir Himalaya. *Environment, Development and Sustainability*, 1-23.
11. Sheikh, H. A., Bhat, M. S., Alam, A., Ahsan, S., & **Shah, B.** (2022). Assessing the groundwater spring potential of Sindh basin in the Kashmir Himalaya. *Arabian Journal of Geosciences*, 15(23), 1710.

12. **Shah, B.**, Sultan Bhat, M., Alam, A., Sheikh, H. A., & Ali, N. (2022). Developing landslide hazard scenario using the historical events for the Kashmir Himalaya. *Natural Hazards*, 114(3), 3763-3785.
13. Ali, N., Alam, A., Bhat, M. S., & **Shah, B.** (2022). Using historical data for developing a hazard and disaster profile of the Kashmir valley for the period 1900–2020. *Natural Hazards*, 114(2), 1609-1646.
14. **Shah, B.** (2021). Traditional Kashmiri Herbal Shera (soup) Boosts Immunity –Owing To COVID-19 pandemic. *International Journal of Recent Advances in Engineering and Technology*, Vol. 9(8), 1-7.
15. Jamal. S., Ahmad. S.W., Shakor, M.S.A., & **Shah. B.** (2021). Assessing Anthropogenic Influence on Deterioration and Shrinkage of Water Bodies In Response to Land Transformation in Aligarh District, Uttar Pradesh” in *Creative space journal* Vol. 9, No. 1 (2021), pp.29–37, Published by Chitkara

Conferences, Seminars, and other academic involvements

- Presented paper on “Developing Landslide Inventory for the Kashmir Himalaya” in “**5th World Congress on Disaster Management**” held at Indian Institute of Technology (IIT), Delhi, from 24th -27th November 2021.
- Presented paper on “Landsuse/Landcover Assessment Changes in Badgam District J&k, India” in “**XIV International Geographic Union (IGU)-India**” held at Department of Geography, University of Burdwan, West Bengal, India.
- Presented paper on “Using Satellite Data to Assess Landuse/Landcover Dynamics of wetland Ecosystem in Kashmir Valley, India” in “**National Conference on Impact of Climate change on Food , Water, and Health: Issues and Challenges**” held at Department Of Geography , Aligarh Muslim University , Indi fro 1-2nd Feb 2020.
- Presented paper on “Human as a Geomorphological Agent of the Anthropocene In the Kashmir Valley” in **32nd Annual Conference of the Indian Institute of Geomorphologists (IGI)** from 21-23rd January 2021.
- Presented paper on “Changing Pattern of Drainage and its Geo-Environmental Implications: A Spatio-Temporal Analysis” in **XV Deccan Geographical Society, India (DSGI)** Conference on Climate Change, Disasters and Sustainable Livelihood held by Department of Geography, University of Allahbad, Prayagraj, from 26-28 Nov 2020.
- Attended the Online Public Lecture on “Landslides along transportation corridor in mountainous region of India” on 14th August 2020 Organised by Department of Geology, K J Somaiya College of Science and Commerce, Mumbai, Maharashtra.
- Participated in online Quiz Competition on “Fundamentals of Remote Sensing” organised by Department of Geography, Shri Bankatswami Mahavidyalaya, Beed (Maharashtra, India) On Dt. 10-7-2020.
- Participated in Seminar on “**Cyclones and Storm Surges**” organized by National institute of Disaster Management, Ministry of Home affairs, Govt. of India.
- Participated in Seminar on “**Landslides: Risk and Resilience**” organized by National institute of Disaster Management, Ministry of Home affairs, Govt. of India.

- Participated in International Seminar on “**From Cities to Glaciers**” organized by Dept. of Geography, Bankura Zilla Saradamani Mahila Mahavidyapith.

Professional Development Courses

- ***Indian Space Research Organization (ISRO)***
Three month training course “**Geospatial Technologies and Application**” conducted by National Remote Sensing Centre - Indian Space Research Organization (ISRO) Hyderabad, Department of Space, Govt. of India, 2020.
- ***Department of Science and Technology (DST)***
21 days training course “**Remote Sensing and GIS Training**” with **First Grade** conducted by Natural Resources Data Management System-Department of Science and Technology (DST), Ministry of Science And Technology, Govt. of India, 2019.
- ***National Institute of Disaster Management (NIDM)***
40 days training course of “**Comprehensive Disaster Risk Management Framework, course**” jointly conducted by Global Faculty on Disaster Reduction Recovery (GFDRR) and National of Disaster Management, Ministry of Home affairs, govt. of India, 2020.
One week training programme on “**Multi-Hazard Risk Management in Changing Climate: Sustaining Economic Development and Livelihood in Western Himalayas**” conducted jointly by Department of Geography and Disaster Management, University of Kashmir and National of Disaster Management, Ministry of Home affairs, govt. of India, 2021.
- ***Indian Institute of Remote Sensing (IIRS) ISRO***
One Week course on “**Overview of Planetary Geosciences with special emphasis to the Moon and Mars**” conducted by Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization, Department of Space, India, 2020.
- ***National Institute of Disaster Management (NIDM)***
Three days training on “**Climate Change, Landslides and Safe Hill Area Development**” organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with Dr. Raghunandan Singh Tolia Uttarakhand Academy of Administration, Nainital, Uttarakhand, 2020.

References

1. Dr. M. Sultan Bhat

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2. Dr. Akhtar Alam

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