

Curriculum Vitae

Dr. Pervez Ahmed

Designation: Professor and Head

Department of Geography and Disaster Management,
University of Kashmir, Srinagar, J&K, 190006.

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Area of Specialization/Research Interests:

During last more than two decades of my academic and research activities, I have been involved in multidisciplinary activities particularly by acting as a bridge between the pure and applied sciences on one side and social sciences on other, which is the core theme of Geography. I have been involved in application of remote sensing and GIS techniques in solving the complex questions/problems of Earth and Environmental sciences.

My primary research focus has been on the use of remote sensing and GIS technology in geomorphological, glaciological, hydrological, climatic and environmental geography studies. I have utilized the geospatial technology for observation and modelling of various processes operating at watershed scale particularly in Kashmir Himalayas with a focus on nexus between upstream conditions and its downstream affects. My research has led to me investigate the observed climate data of Kashmir Himalayas and come out with a plausible weather/climatic condition in current and future time scales. I have been involved in sponsored research on response of snow and glaciers to changing climate. Recently I have been involved in supervising post-doctoral studies soil micronutrient and nitrogen loadings for better parameterization of hydrological models for estimating snow and glacier runoff, surface runoff and quantifying changes in surface water resources under changing climate. The research leading to doctoral degree of my students are diverse and focus more on interdisciplinary nature with a thrust on man and environment relationship ranging from climate and its impact on runoff, to glacier dynamics, estimating land use land cover changes in present and future, landslides studies among several others.

Recently my lab has been involved in applying the use of numerical, probabilistic, and statistical modeling techniques for solving complex problems related to climate, glaciers, sediment transport, runoff estimation among several others.

Educational Qualifications:

Degree	Name of Institute	Specialization
Ph.D.	Department of Geography, Jamia Millia Islamia, New Delhi	Environmental Geography & Remote Sensing Applications Title of the Thesis “Deforestation and its impact on Land Degradation in Kashmir Division (J&K)”

Employment History:

Position	Name and Location	Date
Assistant Professor (I) to Assistant Professor (III)	Department of Geography and Disaster Management, University of Kashmir	July 2003 to June 2015
Associate Professor	Department of Geography and Disaster Management, University of Kashmir	July 2015 to June 2018
Professor	Department of Geography & Disaster Management, University of Kashmir	July 2018 till date

Teaching and Research Experience:

- More than 19 Years of teaching and research experience at the Masters and Doctoral degree level in *Environmental Geography* (Natural Resources Management, Climate & Glacial Studies, Watershed Management, Fluvial Geomorphology) & *Remote Sensing Applications*.

Membership of Scientific/Academic Societies:

1. Member, National Association of Geographers, India.
2. Member, Indian Society of Geomatics.
3. Member of Indian Institute of Geomorphologists (IIG).

Research Projects:

Completed:

1. Co-Principal Investigator of a major project funded by SERC Division, DST, Govt. of India entitled “**Snow Cover and Glacial Geomorphological Investigation of Nehnar Glacier- Sind Valley, Jammu & Kashmir**”. D.O.C. August, 2013.
2. Principal Investigator of a major project funded by NCPOR, Ministry of Earth Sciences, Govt. of India entitled “**Response of North-Western Himalayan glaciers to Climate Change: A case study from Jhelum Basin**”. D.O.C. March, 2021.

Project Mentorship / Postdoctoral Supervision:

1. Post-Doctoral research project of Dr. Fayma Mushtaq entitled “**Potential Ecological Impacts of Climate Change Nitrogen Loadings and invasion of Alien Species on Freshwater Lake in Kashmir Himalayas, J & K.**” DST, Govt. of India. (*Completed*)
2. Post-Doctoral Research Project of Dr. Shazia Ramzan entitled” **Climate Change Impact on Soil Erosion in Soils of Lesser Himalayas.**”, DST, Govt. of India. (*Completed*)
3. Post-Doctoral Fellowship of Dr. Abaas Ahmad Mir entitled “**Hydrological Information, Landuse/Landcover Prediction and SWAT Analysis for effective Watershed Management in Pohru Watershed of Kashmir Valley (J & K)**”. ICSSR, MHRD, Govt. of India. (*Completed*)
4. Post-Doctoral Fellowship of Dr. Tariq Ahmad Ganaie entitled “**Resource Dependency for Livelihood Sustenance among Lakeshore villages of Wular Lake.** ICSSR, MHRD, Govt. of India. (*Completed*)
5. Post-Doctoral Fellowship of Dr. Aadil Manzoor Nanda entitled “**Vulnerability Assessment and Mitigation Strategies for Landslides in North Kashmir along Highway from Bandipora to Gurez, J&K.** ICSSR, MHRD, Govt. of India. (*Completed*).
6. Post-Doctoral Fellowship of Dr. Sajad Ahmad Mir entitled “**Intersectionalities of climate crisis-space and gender in Jammu and Kashmir Union territory**”. ICSSR, MHRD, Govt. of India. (*Ongoing*)

Publications:

Published:

1. Land Cover Analysis of Mountainous Himalayan System Using Geo-Spatial Tools, A Case Study of Sindh Valley (Kashmir), Journal of Himalayan Ecology and Sustainable Development, Vol. 4, January 2009, ISSN 0973-7502.
2. Impact of Change in Forest Cover on Soil Status in Kahmil Watershed (J&K) using Geospatial Tools, In Earth Science India, Vol.2(iii), July 2009. pp 187-195, ISSN: 0974-8350.
3. Temperature Variability in the Kashmir Valley- A Spatio-temporal Analysis, The Geographer, Aligarh. Vol.53, No.1, 2006: pp 98-103. ISSN:0072-0909
4. Changing Landuse /Land cover Scenario and its impact on Soil in Upper Catchment of River Sind (J & K), In Rawat, M.S.S, and Pratap, D., (ed) Management Strategies for the Indian Himalayas: Development and Conservation, Vol.2, 2009: pp. 192-197. ISBN: 978-81-904778-4-0.
5. Dynamics of Landuse/Land cover Changes in Kahmil Catchment of Pohru River System using Remote Sensing and GIS, In Qureshi, M.H. (ed), Jamia Geographical Studies, 1st Ed. 2012, pp 236-245. ISBN: 978-81-7831-2804
6. Landuse/Land cover Dynamics and its Impact on Wetland Ecosystem: A case study of Hokarsar, In Qureshi, M.H. (ed), Jamia Geographical Studies, 1st Ed. 2012: pp 280-292. ISBN: 978-81-7831-2804
7. Sediment Yield Estimation for Watershed Prioritization in Micro-Watersheds of Sandran Watershed, J&K, International Journal of Recent Scientific Research, Vol.4, Issue 7: pp.1145-1149, July 2013. ISSN: 0976-3031.

8. Prioritization of Micro-Watersheds for Soil and Water Conservation Measures in Haheom Watershed, J & K. (India). International Journal of Science and Advanced Technology, Vol.3, (8), August 2013. ISSN 2221-8386
9. Morphometric Analysis of West Liddar Valley, In Qureshi M.H. (ed), Jamia Geographical Studies, Vol.2 Ed.2013: pp 25-46. ISBN: 978-93-7831-326-4.
10. Quantifying Land use/ Land cover dynamics in Sandran watershed, part of Jhelum Basin in Western Himalayas, Kashmir, India. National Geographical Journal of India, Volume 59, part IV, Dec. 2013: pp 377-386, ISSN 0027-9374.
11. Evaluation of Landuse/Land cover Dynamics in Vaishav Watershed of Kashmir Valley (J&K) National Geographical Journal of India Volume 60, part IV Dec. 2014: pp 381-390, ISSN 0027-9374
12. Morphometric Analysis of Sandran Drainage Basin (J&K) Using Geo-Spatial technology. Earth Science India Vol. 7, Issue 2, April 2014: pp. 55-66, ISSN 0974-8350.
13. Sediment Yield Estimation for Watershed Management in Lolab Watershed of Jammu & Kashmir state using Geospatial Tools. International Journal of Advanced Remote Sensing and GIS; 2014: Vol. 3: Issue 1: pp 616-626: ISSN 2320-0243.
14. Micro watershed Level Conservation Strategies for Effective Land Management in Haheom Watershed, Kashmir Valley (J&K). In Singh M et.al (ed.) Landscape Ecology & Water Management, Springer, Japan: 2014: Vol. 2: pp 341-352: ISSN 2198-3542.
15. Watershed Prioritization Using Sediment Yield Index Model for Vaishav Watershed of Jammu and Kashmir State India). Journal of Himalayan Ecology and Sustainable Development. 2015: Vol. 10: pp 87-94: ISSN 0973-7502.
16. Livestock concentration and association in highland regions: a geographical study of Kashmir valley, International Journal of Plant, Animal & Environmental Sciences, 2015: Vol.5, No.44. ISSN 2331 4490.
17. Disparities in the Levels of Educational Development in Jammu and Kashmir: A District Wise Analysis. International Research Journal of Social Sciences. 2016. Vol. 5(3): pp 19-24: E-ISSN 2319-3565.
18. Landuse/ Land cover Analysis in Hamal Watershed of North western Himalaya's using Remote Sensing & GIS. International Research Journal of Engineering and Technology (IRJET) 2016. Vol. 03 (4): ISSN No: 2395-0056.
19. Urbanization Problems and Growth of Slums in Srinagar urban center of Kashmir valley (J &K). International Journal of Recent Scientific Research. 2016. Vol.7 (1). ISSN No. 0796-3031
20. Variability of Precipitation Regime in Ladakh region from 1901-2000. Journal of Climatology and Weather Forecasting. 2016. Vol. 4 (2) ISSN 2332-2594
21. An Analysis of Climatic and Human Induced Determinants of Agricultural Land Use Changes in Shupiyan Area of Jammu and Kashmir State, India. GeoJournal, Springer. 2016: Vol. 81 No. 5. ISSN 0343-25221.

22. Spatial Distribution and Growth of Livestock Sector in Jammu & Kashmir: A Spatial Analysis, International Journal of Arts, Humanities and Social Sciences. 2017. Vol.2, No.1.
23. Productivity of Different Species of Dairy Animals in High Altitude Regions: A Geographical Analysis in Pulwama District of Jammu & Kashmir. Journal of Rural Development.2017. Vol. 36 No.2. ISSN 0970-3357.
24. Evaluation of Landuse/Land cover Dynamics in Rambiarra Watershed of Kashmir Valley (J&K). International Journal of Emerging Technology and Advanced Engineering. 2017. Vol. 7. No.8. ISSN 2250-2459.
25. A Geographical Analysis of Land Use/ Land Cover Dynamics in Lolab Watershed of Kashmir Valley. Western Himalayas Using Remote Sensing and GIS. Journal of Remote Sensing & GIS. 2017. Vol. 6. ISSN 2469-4134.
26. Rainfall Induced Landslide Hazard Assessment along NH 1D from Ganiwan to Gumri (J & K) India. Earth Science India. 2017. Vol. 10 (4). ISSN 0974-8350.
27. Urban Sprawl and its Impact on Landuse/Land cover Dynamics of Dehradun City, India. International Journal of Sustainable Built Environment. Elsevier 2017.DOI: <http://doi.org/10.1016/j.ijsbe.2017.10.003> ISSN: 2212-6090.
28. Analyzing Landuse/ Land cover Change using Remote Sensing and GIS Techniques in Pohru watershed of Kashmir Valley. Journal of Research & Development.2016. Vol. 16. Pp 104-111. ISSN No. 0972-5407.
29. Infrastructural Facilities for Floriculture Development in Kashmir Himalayas with special reference to Greater Srinagar. International Research Journal of Engineering & Technology (IRJET) .2017. Vol. 4(12) pp 763-768. ISSN no. 2395-0056.
30. Integrated Land Resource Management Plan for Pohru Watershed of Kashmir Valley (J&K). I- Managers Journal on Civil Engineering. 2017. Vol. 7 (4). pp 35-42. ISSN No. 2249-0779.
31. Temperature and Precipitation Trends in Kashmir Valley, North Western Himalayas. Theoretical and Applied Climatology. Springer-Verlag. 2018. <http://doi.org/10.1007/s00704-018-2377-9>. ISSN. 1434-4483. **(Impact Factor: 2.8)**
32. Snow Cover Area Change and Its Relation with Climatic Variability in Kashmir Himalayas, India. Geocarto International. Taylor & Francis Online. April 2018. <https://doi.org/10.1080/10106049.2018.1469675>. **(Impact Factor: 3.8)**
33. Landslide Susceptibility Assessment of NH 1D from Sonamarg to Kargil, J&K, India using Frequency Ratio Method. 2018. International Journal of Advanced Research in Science and Engineering. Vol 7. Issue 4. ISSN No. 2319-8354
34. Tectonic Geomorphology of Lolab Watershed, Northwestern Himalayas, India. Nov. 2018. Disaster Advances. Vol. 11, No.11. ISSN 0974-262X.
35. Trend Analysis of Winter Precipitation over Kashmir Valley from 1980-2016. April 2018. International

36. Assessment of Present and Future Climate Change over Kashmir Himalayas, India. Theoretical and Applied Climatology. Springer-Verlag. 2019. <http://doi.org/10.1007/s00704-019-02807-X>. (**Impact Factor: 2.8**)
37. Recent trends in precipitation regime of Kashmir valley, India. *Disaster Advances* Vol 12 (4).
38. Spatio-temporal change of surface temperature of Himalayan Lake and its interrelation with water quality and growth in aquatic vegetation. Geocarto International. Taylor & Francis Online. March 2019. <https://doi.org/10.1080/10106049.2019.1590467>. (**Impact Factor: 3.8**)
39. Soil health: Looking for the effect of tillage on soil physical health. *International Journal of Chemical Studies* 2019; 7(1): 1731-1736.
40. Multi-criteria evaluation for Landslide Hazard Zonation by integrating remote sensing, GIS and field data in North Kashmir Himalayas, J &K, India (2019) *Environmental Earth Sciences* Environmental Earth Sciences (2019) 78:613 <https://doi.org/10.1007/s12665-019-8631-3> (**IF - 2.7**)
41. Spatio-temporal behaviour of Nehnar Glacier from 1962 to 2017, Jhelum basin, Kashmir Himalayas, India (2019) *PHYSICAL GEOGRAPHY* <https://doi.org/10.1080/02723646.2019.1706704> (**IF - 1.9**).
42. Application of Snowmelt Runoff Modeling in Kashmir Himalayas, India. (2019) *National Geographical Journal of India*. Vol 65, Issue 2 June 2019.
43. Variability of lake surface water temperature: a case study during El Nino and La Nina events over the Himalayan lake region April 2020 *Physical Geography* DOI: [10.1080/02723646.2020.1751386](https://doi.org/10.1080/02723646.2020.1751386)
44. Assessment of Spatio temporal changes in Landuse land cover of North Kashmir Himalayas, India. *Modelling Earth system and Environment*. March 2020. <https://doi.org/10.1007/s40808-020-00750-9>
45. Agricultural soils a trigger to nitrous oxide: a persuasive greenhouse gas and its management. (2020) *Environmental Monitoring and Assessment* 192:436 <https://doi.org/10.1007/s10661-020-08410-2> (**IF – 3.3**)
46. Landslide susceptibility assessment of national highway 1D from Sonamarg to Kargil, Jammu and Kashmir, India using frequency ratio method June 2020 *GeoJournal* DOI: [10.1007/s10708-020-10235-y](https://doi.org/10.1007/s10708-020-10235-y)
47. Response of Streamflow to Climate variability in the source region of Jhelum River Basin in Kashmir valley, India. (2020) *Natural Hazards* DOI: [10.1007/s11069-020-04183-6](https://doi.org/10.1007/s11069-020-04183-6) (**IF – 3.15**)
48. Rainfall Induced Landslide movements using linear regression analysis along National Highway 1D (Jammu and Kashmir, India). (August, 2020) *Modelling Earth Systems and Environment*. 6 (3) pp. 1 – 15. DOI: [10.1007/s40808-020-00908-5](https://doi.org/10.1007/s40808-020-00908-5)
49. Slope Stability Analysis along NH 1D from Sonamarg to Kargil, J&K, India: Implications for Landslide Risk Reduction. November 2020 *Journal of the Geological Society of India* 96(5):499-506 DOI: [10.1007/s12594-020-1588-8](https://doi.org/10.1007/s12594-020-1588-8) (**IF – 3.15**)
50. Responses of Soil Properties to Organic Amendments January 2021 In book: *Microbiota and*

Biofertilizers. DOI: [10.1007/978-3-030-48771-3_3](https://doi.org/10.1007/978-3-030-48771-3_3)

51. Mapping Seasonal Variability and Spatio-temporal trends of Water Quality Parameters in Wular Lake (Kashmir Valley). Accepted as a book chapter in “GIScience for Land Resource Management” - A Scrivener-Wiley Imprint.

2021- 2022 Publications

52. High Resolution Inventory and Hazard Assessment of Potentially Dangerous Glacial Lakes in upper Jhelum basin, Kashmir Himalaya, India" *Geocarto International*, **37**(2): 1 -32 {ISSN: 1010-6049} (**IF 4.9**)
53. "A Review of Glacial Lake Expansion and Associated Glacial Lake Outburst Floods in the Himalayan Region" *Earth Systems and Environment*, **5**(3): 695 -708 {ISSN: 2509-9426}
54. "Rainfall-induced landslide movements using linear regression analysis along national highway 1D (Jammu and Kashmir, India)" *Modeling Earth Systems and Environment*, **7**(3): 1863 -1875 {ISSN: 2363-6203}.
55. "Land use land cover change in Kashmir Himalaya: Linking remote sensing with an indicator based DPSIR approach" *Ecological Indicators*, **125**(107447): 1 -12 {ISSN: 1470160X} (**IF: 6.26**).
56. "Analysis of landuse and landcover changes in Kashmir valley, India—A review" *GeoJournal*, **0**(0): 1 -13 {ISSN: 0343-2521}.
57. "Glacier changes in Sind basin (1990–2018) of North-western Himalayas using earth observationdata" *Modeling Earth Systems and Environment*, **0**(0): 1 -13 {ISSN: 2363-6203}.
58. "Spatiotemporal dynamics of glacial lakes (1990–2018) in the Kashmir Himalayas, India using Remote Sensing and GIS" *Discover Water*, **1**(7): 1 -17 {ISSN: 2730-647X}
59. "Assessment of earthquake-triggered landslides along NH 1D in J&K, India: using multivariate approaches" *Modeling Earth Systems and Environment*, **0**(0): 1 -8 {ISSN: 2363-6203}.
60. "Assessing the Status of Glaciers in Upper Jhelum Basin of Kashmir Himalayas Using Multi-temporal Satellite Data" *Earth Systems and Environment*, **0**(0): 1 -15 {ISSN: 2509-9426}.
61. "Evaluation of Trend analysis of Sericulture Resource Development in North-Western Himalayan region of Kashmir valley, Jammu and Kashmir, India" *Sustainability Agri Food Environmental Research*, {ISSN-0047-8539}.

2022- 2023 Publications

62. "Attitudinal behaviour of agriculturalists towards pesticide use in Pir-Panjal Range of Kashmir Himalayas" *International Archives of Occupational and Environmental Health*, **95**, pages1859–1870 (2022). (**IF: 2.85**).
63. "Mapping of groundwater potential zones in Pohru Watershed of Jhelum Basin-Western Himalaya, India using integrated approach of remote sensing, GIS and AHP" [*Earth Science Informatics*](#),**15**,

pages2091–2107 (2022). (IF: 2.70).

64. “Assessing the Impact of Terrain Attributes on Snow Cover Area Distribution in Kashmir Valley, Northwestern Himalaya” In book: *Towards Sustainable Natural Resources*. DOI: 10.1007/978-3-031-06443-2_6.
65. “Local perspectives and motivations of people living in flood-prone areas of Srinagar city, India” [*International Journal of Disaster Risk Reduction*](#). Volume 82, November 2022, 103354. (IF: 4.9).
66. “Glacial lake changes and the identification of Potentially Dangerous Glacial Lakes (PDGLs) under warming climate in the Dibang River Basin, Eastern Himalaya, India”. *Geocarto International*. 1-24. <https://doi.org/10.1080/10106049.2022.2134461>. (IF: 4.9).
67. “Changing Land Surface Temperature in Response to Land use changes in Kashmir valley of Northwestern Himalayas”. *Geocarto International*. DOI: [10.1080/10106049.2022.2142968](https://doi.org/10.1080/10106049.2022.2142968). (IF: 4.9).
68. Glacial Lake Outburst Flood Hazard and Risk Assessment of Gangabal Lake in the Upper Jhelum Basin of Kashmir Himalaya Using Geospatial Technology and Hydrodynamic Modeling. *Remote Sens.* 2022, 14, x. <https://doi.org/10.3390/xxxxx>. (IF: 5.34).
69. Javaid, S., Bhat, W. A., Ahmed, R., Rather, A. F., Ahmad, S. T., & Ahmed, P. (2023). Assessing changing flow regime of upper and middle reaches of Narmada River using the indicators of hydrological alterations (IHA) metrics. *ISH Journal of Hydraulic Engineering*, 1-10.
70. Singh, A., Hajam, F. A., Ahmed, R., Ahmed, P., Singh, H., & Khan, R. (2025). Geographical analysis of cropping pattern in Kashmir valley, India. *Sustainability, Agri, Food and Environmental Research*, 13.
71. Ganaie, M. I., Jan, I., Mayer, A. N., Dar, A. A., Mayer, I. A., Ahmed, P., & Sofi, J. A. (2023). Health Risk Assessment of Pesticide Residues in Drinking Water of Upper Jhelum Region in Kashmir Valley-India by GC-MS/MS. *International Journal of Analytical Chemistry*, 2023.
72. Mir, A. A., Ahad, U., Inayatullah, M., Ali, U., & Ahmed, P. (2023). Evaluation of water quality status of Pohru watershed, Kashmir valley, Jammu and Kashmir, India. *Water, Air, & Soil Pollution*, 234(3), 154.
73. Mir, R. A., Ahmed, R., Hussain, M., Bukhari, S. K., Ahmed, P., Dar, R. A., ... & Bhat, W. A. (2023). Causes, concerns and hazards of sinkhole formation in Brengi stream catchment of Upper Jhelum basin, Kashmir Himalaya. *Environment, Development and Sustainability*, 1-28.
74. Nanda, A. M., ul Hassan, Z., Ahmed, P., & Kanth, T. A. (2023). Landslide susceptibility zonation along national highway 1D from Sonamarg to Kargil, North Western Himalaya. *Journal of the Geological Society of India*, 99(4), 570-577.
75. Khan, R. M., & Ahmed, P. (2023). Agricultural land use suitability analysis using GIS and AHP technique in Baramulla district of the Kashmir valley, India.
76. Bhat, I. A., Ahmed, R., Bhat, W. A., & Ahmed, P. (2023). Application of AHP based geospatial modeling for assessment of landslide hazard zonation along Mughal road in the Pir Panjal Himalayas. *Environmental Earth Sciences*, 82(13), 336.

77. Mushtaq, R., Qadiri, B., Lone, F. A., Raja, T. A., Singh, H., Ahmed, P., & Sharma, R. (2023). Role of sericulture in achieving sustainable development goals. *Problemy Ekorożwoju*, 18(1).
78. Rastogi, B. K., & Ahmed, P. (2023). A Report on Annual Convention of ISES “Advances in Earthquake Science (AES 2023)” and National Symposium on “Earthquake, Landslide and Glacial Hazards” at the University of Kashmir, Srinagar.
79. Mushtaq, R., Yadav, R. K., Fayaz Fayaz, A., Ahmed, P., & Singh, H. (2023). Multi-criteria land suitability assessment for mulberry-based agroforestry using AHP and GIS approach in Anantnag district of the Kashmir valley, India, to achieve sustainable agriculture. *Environment, Development and Sustainability*, 1-23.
80. Bhat, W. A., Bhat, I. A., Ahmed, P., Shafiq, M. U., & Rashid, S. (2023). Mass balance of Nehnar glacier from 2000 to 2020, using temperature indexed-IAAR approach. *Environmental Science and Pollution Research*, 30(47), 103463-103479.

2023- 2024 Publications

81. Mushtaq, R., Yadav, R. K., Fayaz, A., Ahmed, P., Singh, H., & Singh, J. (2024). Land Suitability Assessment for Mulberry-Based Agroforestry Using AHP and GIS Technique in the Northwestern Himalayan Region of Kashmir Valley, India to Achieve Sustainable Agriculture. In *Climate Crisis: Adaptive Approaches and Sustainability* (pp. 551-570). Cham: Springer Nature Switzerland.
82. Bhat, I. A., Bhat, W. A., Ahsan, S., ul Shafiq, M., & Ahmed, P. (2024). Snow avalanche susceptibility along Mughal Road, North-western Himalaya using geospatial techniques. *Arabian Journal of Geosciences*, 17(1), 41.
83. Wani, G. F., Ahmed, R., Ahmad, S. T., Javaid, S., Walia, A., & Ahmed, P. (2024). A Preliminary Investigation into the Social Perceptions of Urban Residents Exposed to River Floods. In *Climate Change, Vulnerabilities and Adaptation: Understanding and Addressing Threats with Insights for Policy and Practice* (pp. 103-114). Cham: Springer Nature Switzerland.
84. Wani, G. F., Ahmad, S. T., Ahmed, R., Rather, A. F., Walia, A., & Ahmed, P. (2024). Flood Disaster Risk Governance in Changing Climate Contexts. In *Climate Change, Vulnerabilities and Adaptation: Understanding and Addressing Threats with Insights for Policy and Practice* (pp. 231-243). Cham: Springer Nature Switzerland.
85. Nanda, A. M., Lone, F. A., & Ahmed, P. (2024). Prediction of rainfall-induced landslide using machine learning models along highway Bandipora to Gurez road, India. *Natural Hazards*, 1-29.
86. Rather, A. F., Ahmed, R., Jun, C., Bateni, S. M., Ahmed, P., & Mir, R. A. (2024). Understanding Glacial Lake Evolution and the Associated GLOF Hazard in the Shyok Catchment of the Upper Indus Basin Using Geospatial Techniques. *Natural Hazards Review*, 25(3), 04024014.
87. Tali, J. A., Ahmed, P., Dimri, A. P., & Mahmood, R. (2024). Assessment of climate variability and trends in different physiographic zones of North Western Himalayas. *Theoretical and Applied Climatology*, 1-20.

88. Shafiq, M. U., Islam, Z. U., Fayaz, A., Mahmood, R., Ahmed, P., & Dimri, A. P. (2024). Spatio-temporal trends and variability in extreme temperature and precipitation indices in the Kashmir Valley, North Western Himalayas. *Journal of Water and Climate Change*, jwc2024141.
89. Ahmed, R., Rather, A. F., Wani, G. F., Ahmad, S. T., Shamim, T., Ahmed, P., & Mir, R. A. (2024). Retreating Gya Glacier and Expansion of Gya Lake in the Ladakh Region of North-Western Himalaya. In *Water Resource Management in Climate Change Scenario: Innovations in Geospatial Techniques and Models* (pp. 235-246). Cham: Springer Nature Switzerland.
90. Ashraf, I., Khan, J. N., Ahmad, S. T., Shah, I. A., Kumar, R., Ahmad, L., ... & Ramzan, S. High-resolution Mapping of Alpine Glaciers of Suru Basin: A 2022 Inventory Based on Sentinel-2 Satellite Data.
91. Rather, A. F., Ahmed, R., Ahmed, P., Bansal, J. K., Banerjee, P., Wani, T. A., ... & Mir, R. A. (2024). Examining the glacier-glacial lake interactions of potentially dangerous glacial lakes (PDGLs) under changing climate in Shyok catchment of the Upper Indus Basin. *Physics and Chemistry of the Earth, Parts A/B/C*, 136, 103686.
92. Ahmed, R., Shamim, T., Bansal, J. K., Rather, A. F., Javaid, S., Wani, G. F., ... & Mir, R. A. (2024). Assessing climate trends in the Northwestern Himalayas: a comprehensive analysis of high-resolution gridded and observed datasets. *Geomatics, Natural Hazards and Risk*, 15(1), 2401994.
93. Rather, A. F., Ahmed, R., Bansal, J. K., Mir, R. A., Ahmed, P., Malik, I. H., & Varade, D. (2024). Glacial lake outburst flood risk assessment of a rapidly expanding glacial lake in the Ladakh region of Western Himalaya, using hydrodynamic modeling. *Geomatics, Natural Hazards and Risk*, 15(1), 2413893.
94. Singh, A., Ahmed, R., Ahmed, P., & Singh, H. (2024). Educational Disparities among Selected Villages in the North Kashmir Region of India. *Annals of the National Association of Geographers, India*, 44(2).
95. Ahmed, R., Rather, A. F., Banerjee, P., Wani, G. F., Saleem, S., Shamim, T., ... & Mir, R. A. (2025). Impact of Climate Variability on the Feeding Glaciers of Potentially Dangerous Glacial Lakes in the Jhelum Basin of Kashmir Himalaya, India. *Natural Hazards Review*, 26(2), 04025001.
96. Nanda, A. M., & Ahmed, P. (2025). Comprehensive Empirical and Numerical Approach for Analyzing Stability and Failures along Bandipora to Gurez Highway, J&K, India. *Indian Geotechnical Journal*, 1-13.

Paper Presented in Seminars/Conferences:

1. Paper Presented on “*Sediment Yield Index as an Indicator of Soil Degradation in Kahmil Watershed, Kashmir*” at the 6th JK Science Congress organized by the University of Kashmir in Collaboration with J&K State Council for Science and Technology in Dec. 2010.
2. Paper Presented on “*Morphometric Analysis of Sandran Drainage basin for Hydro-geomorphic studies using Geospatial technology*” in International Conference on Regional Development, Sustainability and Socio-Economic Development in Jammu & Kashmir jointly organized by ISCA New-Delhi, Amar Singh College, Srinagar and Department of Geography & Regional Development, University of Kashmir, Srinagar, June, 2013.
3. Paper Presented on “*Economic Evaluation of Nutrient Loss from Kanaknaz Watershed-Sind Valley (Kashmir)*” in the National Seminar on Himalayan Resources: Challenges and Management Strategies organized by Department of Geography & Regional Development, University of Kashmir Srinagar. October, 2011.
4. Paper Accepted and Presented by the Co-Author at the International Geographical Congress (IGC) entitled “*Dynamics of Landuse / Land cover Change in a Sub-catchment of Pohru Catchment*” using Remote Sensing and GIS at Cologne, Germany. August, 2012.
5. Paper Presented on “*Modeling Approach for Conservation of Soil Resources in Kashmir Himalayas using Remote Sensing and GIS*” in the International Geographical Union Commission (IGU) Conference on Geohazards, Biodiversity, Resource Sustainability and Mountain response to Global Change organized by Department of Geography & Regional Development, University of Kashmir, Srinagar. June, 2014.
6. Paper Presented on “Identification and Mapping of glacial landforms in Nehnar glacial valley, Kashmir Himalayas using Remote sensing and field-based approach” in International Conference on Building Resilient cities organized by Department of Geography, Jamia Millia Islamia, New Delhi.
7. Presented a paper in Three Day Online **International Conference** on “**Aerosol, Air Quality, Climate Change and impact on water resources and the livelihoods in Greater Himalayas**”, organised by Aryabhata Research institute of Observational Sciences (ARIES), Nainital in collaboration with Department of physics, H.N.B Garhwal University, Uttarakhand held on 14-16 September, 2020.
8. Presented a paper on “**Inventory of glacial lakes in the Jhelum basin of Kashmir Himalayas, India**” in a three days online **international conference** organised by Eudoxia research center Guwahati.
9. Presented a paper in a **National Conference (Online) on Climate Change and Pathways to Self-Reliant India: Opportunities and Challenges for Sustainable Development** organised by Department of Geography, Jamia Millia Islamia, New Delhi from 15-16 March, 2020.
10. Presented a paper in **National Conference on Climate change and its impact on Food, Water and health: Challenges** at Aligarh Muslim University, Aligarh.
11. Presented a paper in an **International Conference (Online) on Building Resilient and sustainable**

Societies: Emerging Social and Economic Challenges organised by Department of Geography, Jamia Millia Islamia, New Delhi from 25-26 November, 2020.

12. Presented a paper in an **International Conference** (Online) on **Challenges of Disasters: Vulnerability, Adaptation and Resilience** organised by Centre for Disaster Management, Department of Geography, Jamia Millia Islamia, New Delhi in collaboration with NIDM and ISRO from 02-03 March, 2021.
13. Presented a paper on **Modeling of lake Outburst and downstream hazard assessment of Lato glacier lake located in Trans-Himalayan region of Ladakh, India** at the **International Conference** on Climate Change, Natural Hazards and Sustainable Livelihoods, during 12th-13th March 2022, organised by the Department of Geography, Kirori Mal College, University of Delhi.
14. Presented a paper on “**Analysing social factors that motivates people to occupy flood prone areas of Srinagar city**” at the **International Conference** on Challenges to Disaster Risk Reduction and Resilient Habitat, on April 5, 2022, jointly organised by the Centre for Disaster Management Studies, University of Delhi and NIDM, New Delhi.
15. Presented a paper on **Flood disaster risk governance in the changing climate contexts**” at the **International Conference** on Extreme Weather Events under Changing Climate, during 10th-11th March 2022, organised by G. B. Pant Institute of Himalayan Environment.
16. Presented a Paper in 10th International Conference of the **International Association of Geomorphologists (IAG)** held in Coimbra (Portugal) from 12 to 16 September 2022.

Research Guidance:

Completed/ Awarded:

Scholar	Degree	Specialization
Kowsar Jabeen	M.Phil.	LULC
Aadil Manzoor Nanda	M.Phil.	Watershed Studies
Abaas Ahmad Mir	M.Phil.	Watershed studies
Irshad Ahmad Bhat	M.Phil.	Landslides
Aadil Manzoor Nanda	Ph.D.	Landslide studies
Abaas Ah Mir	Ph.D.	Hydrological Modelling
Mifta ul Shafiq	Ph.D.	Climate and Cryosphere studies
Asma Khan	M.Phil.	LULC Change
Rehana Rasool	Ph.D.	LULC
Rayees Ah	I-Ph.D.	GLOF Modelling
Syed Towseef Ah	I-Ph.D.	Glacier mass balance
Waseem A Bhat	I-Ph.D.	Glacier Mass balance
Irshad Ahmad Bhat	Ph.D.	Landslides studies
Mohd Imran Ganaie	Ph.D.	Human Health

Ruyida Mushtaq	Ph.D.	Sericulture
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Presently Under Supervision/ Co-Supervision.

Scholar	Degree	Specialization
Amarjeet Singh	I-Ph.D.	Agricultural modeling
Gowhar Naz	I-Ph.D.	Disaster Management
Abida	I-Ph.D.	Land Suitability and Modelling
Abid Farooq Rather	I-Ph.D.	GLOF
Sumaira Javaid	I-Ph.D.	Hydrological modeling
Umar Hamza	I-Ph.D.	Earthquakes
Syed Hameem	Ph.D.	Permafrost
Abrar	Ph.D.	Hydrological Modeling
Owais	Ph.D.	Glaciers
Saqiba Hussain	Ph.D.	Glaciers
Waris Ahmad	Ph.D.	Disaster Management
Ifra Ashraf	Ph.D.	GLOFs
Wasit Manhas	Ph.D.	Glacial lakes
Nirmal Mondal	Ph.D.	Hydrology

Trainings

1. DST Sponsored Advanced Summer Training School Programme on “Application of GIS, GPS & Remote Sensing in Development of Planning & Management” held at V.B.S. Purvanchal University.
2. ISRO sponsored ISRO - NNRMS Training Programme on “Remote Sensing & GIS for Natural Resources Management” organized by HARSAC, Hissar.
3. Short term Training Programme on “Digital Image Processing for Remote Sensing Applications” at RRSSC, ISRO, Bangalore.
4. Short term Training on “Remote Sensing, GIS, GPS and its Applications” at Regional Remote Sensing Centre, NRSC, Jodhpur in 2011.
5. Short term Training on “Digital Image Processing, GIS, GPS and its Applications” at Regional Remote Sensing Centre, NRSC, Jodhpur in year 2010.
6. Short term training on “Digital Image Processing, GIS, GPS and its Applications” at Regional Remote Sensing Centre, NRSC, Jodhpur in year 2012.

Seminar/Conferences/Workshop/Trainings Organized:

1. Organized a UGC-SAP National Seminar on “Himalayan Resources: Issues, Challenges & Management Strategies” as Organizing Secretary at University of Kashmir in 2011.
2. Organized a UGC-SAP workshop on “Research Methodology in Earth Sciences” in Collaboration with

UGC Academic Staff College as Departmental Coordinator in 2012.

3. Programme Coordinator for DST Sponsored Summer School on “Geospatial Technologies” held under NRDMs programme of Department of Science & Technology, Govt. of India during 2nd - 29th of September 2014.
4. Course Coordinator for One Week Training Programme on “Psychosocial Care in Disaster Management” organized in collaboration with National Institute of Disaster Management (NIDM), New Delhi. 25th -29th September, 2017.
5. Course Coordinator for One Week Training Programme on “Psychosocial Care in Disaster Management” organized in collaboration with National Institute of Disaster Management (NIDM), New Delhi. 25th -29th September, 2017.
6. Co-Organising Secretary of UGC-SAP Seminar cum Workshop entitled “Disaster Mitigation: Approaches and Strategies” organized by Department of Geography & Regional Development, University of Kashmir from 13th to 18th of March, 2017.
7. Programme Coordinator for One Week Training Programme on “Multi-Hazard Risk Management in Changing Climate: Sustaining Economic Development & Livelihood in Western Himalaya” from 08th - 12th November 2021, jointly organised by Department of Geography, University of Kashmir and National Institute of Disaster Management (NIDM), New Delhi.
8. Programme Convenor for One Week Training Programme on “Earthquake Risk Mitigation and Management” from 17th -21th October 2022, jointly organised by Department of Geography, University of Kashmir and National Institute of Disaster Management (NIDM), New Delhi.

Seminar/Conferences/Workshop Attended:

1. Snow Characterization Workshop -2009 held at Snow and Avalanche Study Establishment (SASE), DRDO, Manali.
2. Workshop on “Urban Disaster Risk Reduction” organized by University of Kashmir Srinagar with the National Disaster Management Authority (NDMA) & Ministry of Earth Sciences, Govt. of India.
3. Workshop on “Research Methodology” organized by Academic Staff College and Faculty of Social Sciences, University of Kashmir.
4. Workshop on “Application of Remote Sensing, GIS & GPS in Resource Management” organized by Department of Geography & Regional Development, University of Kashmir Srinagar in 2013.

Refresher/Orientation Courses Attended:

1. 41st General Orientation Course organized by UGC-Academic Staff College, University of Kashmir. Orientation Course on “Application of Computers in Social Sciences Research” at Jamia Millia Islamia, New Delhi.
2. Refresher course in Geography & Environmental Studies organized by UGC- Academic Staff College,

Jamia Millia Islamia, New Delhi from 16th January to 6th February 2009.

3. Attended a One Week workshop on “Research Methodology in Earth Sciences” organized jointly by UGC-Academic Staff College and Department of Geography & Regional Development, University of Kashmir from 25th June- 01st July 2012.
4. Attended a Refresher Course on “Disaster Management” organized by UGC-Academic Staff College, University of Kashmir from 4th - 23rd August 2014.
5. Attended a One Week workshop on “Disaster Management” organized by UGC-Academic Staff College, University of Kashmir from 27th Jan- 1st Feb 2014.

Other Academic Activities:

1. Co-Presented the proposal at the Department of Science & Technology, Govt. of India for establishing Remote Sensing & GIS Lab. with financial support under their DST-FIST programme.

International and National Research Collaborations:

1. Institute of Geographic sciences, Chinese Academy of Science, Beijing.
2. Institute of Disaster Risk, University College London
3. National Remote Sensing Centre, Hyderabad.
4. Climate Simulation and Research Lab, Jawaharlal Nehru University, New Delhi
5. National Centre for Polar and Oceanic Research, MoES, Govt. of India, Goa
6. National Institute of Hydrology, Roorkee.
7. Indian Institute of Remote Sensing, Dehradun.
8. Indian Institute of Tropical Meteorology, Pune.
9. Indian Institute of Science Bangalore
10. University of Leeds, UK
11. National Institute of Hydrology, Roorkee
12. Indian Institute of Technology, Roorkee

Research gate webpage: <https://www.researchgate.net/profile/Pervez-Ahmed-3/research1,065>

Citations 1452

h-index 20

Google Scholar webpage: <http://scholar.google.co.in/PervezAhmed>

My publications have ~1465 citations as recorded by the Google Scholar.