

BIO-DATA



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M. No: 7006528890
3. Institution University of Kashmir, Srinagar, 190006
4. Date of Birth 01-08-1988
5. Gender (M/F/T) M
6. Category Gen/SC/ST/OBC Gen
7. Whether differently abled (Yes/No) No

8. Academic Qualification

	Degree/ Diploma	Year	Subject	University/Institution	% of marks
1.	B.Sc	2011	Science	University of Kashmir	61.38
2.	M.Sc	2013	Environmental Science	University of Kashmir	72.5
3.	Post Graduate Diploma in Disaster Management	2016	PGDDM	IGNOU	
4.	Ph.D	2023	Environmental Science	University of Kashmir	

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Ph.D thesis title: Impact of Flow Regulation on Macroinvertebrate Community in the Sindh River, Kashmir Himalaya

Guide's Name: Dr Sami Ullah Bhat (Ph.D)
Senior Assistant Professor

Institute/Organization/University: Department of Environmental Science
University of Kashmir

Year of Award: 2023

10. Work experience (in chronological order)

Academic Experience:

Sr.No	Position Held	Name of the Institution	From	To	Pay Scale
1	Contractual Lecturer	Govt. Degree College, DH Pora, Kulgam	08/06/2015	21/01/2016	18000/= (consolidated)
2	Contractual Lecturer	Department of Environmental Science, University of Kashmir	16/10/2024	31/12/2024	45000/= (consolidated)

11. Research experience

S.no	Project	Position held	Name of the Institute	Agency	Period	Pay Scale
1.	Anthropogenic impacts and their management options in different ecosystems of the Indian Himalayan Region	SPF	University of Kashmir	NMHS-MoEF&CC	3 years (Aug 2017 to June 2020)	Rs. 23000 +HRA
2.	Study of catchment topography and land use impact on stream biofilm in Indus Basin of Ladakh” funded by SERB-DST	SRF	University of Kashmir	SERB-DST	25 Aug, 2020 till 17 03-2023	Rs. 31000+HRA

11. Professional Recognition

S.No	Name of Award	Awarding Agency	Year
1.	<u>University Gold Medal for Post Graduation</u>	University of Kashmir	2021
2.	Best Poster Presentation	University of Kashmir	2019

Publications

- 1) Islam, S.T., Bhat, S.U., Sabha, I. et al. Comprehensive Assessment of Trophic Status and Chlorophyll-a Dynamics in the Jhelum River Basin: Implications for River Ecosystem Management. *Int J Environ Res* 19, 48 (2025). <https://doi.org/10.1007/s41742-024-00705->
- 2) Sofi, M. S., Rautela, K. S., Muslim, M., & Bhat, S. U. (2024). From data to decisions: evaluating flood vulnerability in the Sindh watershed through Analytical Hierarchy Process. **Frontiers of Urban and Rural Planning** DOI : 10.1007/s44243-024-00036-z
- 3) Sofi, M.S., Rautela, K.S., Muslim, M. et al. (2024). Modeling the hydrological response of a snow-fed river in the Kashmir Himalayas through SWAT and Artificial Neural Network. **Int. J. Environ. Sci. Technol.** 21, 3115–3128. <https://doi.org/10.1007/s13762-023-05170-7>
- 4) Sofi, M. S., Hamid, A., Bhat, S. U., Rashid, I., & Kuniyal, J. C. (2023). Understanding the role of natural and anthropogenic forcings in structuring the periphytic algal assemblages in a regulated river ecosystem” **Scientific Reports.** <https://doi.org/10.1038/s41598-023-27773-3>
- 5) Sofi, M. S., Bhat, S. U., & Muslim, M (2023). Navigating a broken river: Understanding the ecological consequences of fragmentation on benthic life. **Ecohydrology** <https://doi.org/10.1002/eco.2575>
- 6) Sofi, M. S., Rautela, K. S., Muslim, M., Bhat, S. U., Rashid, I., & Kuniyal, J. C. (2023). Modeling the hydrological response of a snow-fed river in the Kashmir Himalayas through SWAT and Artificial Neural Network. **International Journal of Environmental Science and Technology**, 1-14.
- 7) Sofi, M. S., Hamid, A., Bhat, S. U., Rashid, I., & Kuniyal, J. C. (2022). Impact evaluation of the run-of-river hydropower projects on the water quality dynamics of the Sindh River in the Northwestern Himalayas. **Environmental Monitoring and Assessment**, 194(9), 1-16. <https://doi.org/10.1007/s10661-022-10303-5>
- 8) Sofi, M. S., Hamid, A., Bhat, S. U., Rashid, I., & Kuniyal, J. C. (2022). Biotic alteration of benthic macroinvertebrate communities based on multispatial-scale environmental variables in a regulated river system of Kashmir Himalaya. **Ecological Engineering**, 177, 106560. <https://doi.org/10.1016/j.ecoleng.2022.106560>
- 9) Rautela, K. S., Kumar, M., Sofi, M. S., Kuniyal, J. C., & Bhat, S. U. (2022). Modelling of Streamflow and Water Balance in the Kuttiyadi River Basin Using SWAT and Remote Sensing/GIS Tools. **International Journal of Environmental Research**, 16(4), 1-14. <https://doi.org/10.1007/s41742-022-00416-7>
- 10) Sofi, M. S., Rautela, K. S., Bhat, S. U., Rashid, I., & Kuniyal, J. C. (2021). Application of geomorphometric approach for the estimation of hydro-sedimentological flows and cation weathering rate: towards understanding the sustainable land use policy for the Sindh Basin, Kashmir Himalaya. **Water, Air, & Soil Pollution**, 232(7), 1-11. <https://doi.org/10.1007/s11270-021-05217-w>
- 11) Islam, S. T., Dar, S. A., Sofi, M. S., Bhat, S. U., Sabha, I., Hamid, A., ... & Bhat, A. A. (2021). Limnochemistry and Plankton diversity in some high altitude lakes of Kashmir Himalaya. **Frontiers in Environmental Science**, 387.

<https://doi.org/10.3389/fenvs.2021.681965>

- 12) Sofi, M. S., Bhat, S. U., Rashid, I., & Kuniyal, J. C. (2020). The natural flow regime: A master variable for maintaining river ecosystem health. **Ecohydrology**, 13(8), e2247. <https://doi.org/10.1002/eco.2247>
- Yaseen, A., Assad, I., Sofi, M. S., Hashmi, M. Z., & Bhat, S. U. (2022). A global review of microplastics in wastewater treatment plants: Understanding their occurrence, fate and impact. **Environmental Research**, 212, 113258. <https://doi.org/10.1016/j.envres.2022.113258>
- 13) Rautela, K. S., Sofi, M. S., Abhishek, Khajuria, V and Verma, S. (2021). Morphometry Governs the Dynamics of runoff and Sediment Production Rate: A case study of Upper-Kosi Micro-watershed, Almora Uttarakhand. **J. Himalayan Ecol. Sustain. Dev.** Vol. 16, 1-10.
- 14) Kuniyal, J. C., Kanwar, N., Bhoj, A. S., Rautela, K. S., Joshi, P., Kumar, K., Sofi, M.S ... & Singh, H. B. (2021). Climate change impacts on glacier-fed and non-glacier-fed ecosystems of the Indian Himalayan Region: people's perception and adaptive strategies. **Current Science**, 120(5), 888.
- 15) Farooq, J., Farooq, H., Islam, S. T., Sofi, M. S., Qayoom, U., & Bhat, S. U. (2019). Hydrobiological study of the Panner Reservoir Tral, Kashmir. **J. Himalayan Ecol. Sustain. Dev**, 14, 1-18.
- 16) Sofi, M. S., Bhat, S. U., Subramanian, K. A., Sabha, I., Rashid, I., & Kuniyal, J. C. (2020) Deuterophlebia Edwards, 1922 (Diptera: Deuterophlebiidae) an Enigmatic Primitive Diptera (Insecta) from Kashmir Himalaya. **Halteres** Vol 11, 94-97,
- 17) Sofi, M. S., and Bhat, S. U. (2019). Disarming Environment Impact Assessment: A critical review of the Government of India's agenda to re-engineer environmental clearance norms. **J. Himalayan Ecol. Sustain. Dev**, 14, 88-9

Book Chapters

1. Sofi, M. S., Bhat, S. U., Rashid, I., & Kuniyal, J. C. (2023). Socioeconomic Aspect of Disaster Risk in Kashmir: Contextualizing Village Vulnerability in Sindh Basin. In *Climate Change Adaptation, Risk Management and Sustainable Practices in the Himalaya* (pp. 199-212). Cham: Springer International Publishing.
2. Sofi, M. S., Rautela, K. Islam, S. T, and Bhat, S.U. (2021) Streambank Erosion and Best Management Practices in book *Ecosystem Interactions and Management* by Wanganeo and Wanganeo. Book Enclaves.

Other Information

I Completed Ph.D. in Environmental Science from University of Kashmir in 2023. I worked the Aquatic Ecology Lab, University of Kashmir, on the topic "Impact of flow regulation on the macroinvertebrate community in the Sindh river of Kashmir Himalaya" under the supervision of Dr. Sami Ullah Bhat, Sr. Assistant Professor. I have qualified competitive exams like **UGC-NET (2013)**, **ICAR- NET (2015)** and **JK-SET (2016)**. I have also completed **Post graduate diploma in Disaster Management (2016) from IGNOU** and **Advanced diploma in computer Applications (2017)**. I have attended more than 10 national and international conferences. I am also **University Gold medalist** for my outstanding performance during my post-graduation.

Skills

1. Biostatistics
2. SWAT & Artificial Neural Networking
3. Species Distribution Modelling

References:**1. Dr. Karthick Balasubramanian**

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2. Dr. Sami Ullah Bhat

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