

CURRICULUM VITAE

Dr. Yatendra Sharma

Assistant Professor

Centre for Distance and Online Education
Jamia Millia Islamia (A Central University), New Delhi – 110025



ACADEMIC QUALIFICATIONS

Degree / Qualification	Institution	Year
Ph.D. (Geography)	Jamia Millia Islamia, New Delhi	2025
UGC-NET (JRF)	University Grants Commission	2017
M.A. (Geography)	Jamia Millia Islamia, New Delhi	2016
P.G. Diploma in RS & GIS	Jamia Millia Islamia, New Delhi	2014
B.A. (Hons.) Geography	University of Delhi	2013
Higher Secondary (Class XII)	Kendriya Vidyalaya	2010
Secondary (Class X)	Kendriya Vidyalaya	2008

RESEARCH EXPERIENCE

Research Associate

HEFA-CSR Funded Project | Shivaji College, University of Delhi

Project: “Evaluating Microbial Diversity of Water and Soil and its Remedial Measures for the Potability of Water in Kubbad Patti, Nagaur District, Rajasthan”

- Conducted field-based sampling, water and soil analysis, and microbial diversity mapping.
- Utilized GIS tools for spatial correlation of environmental parameters.
- Contributed to the formulation of remediation strategies for rural water quality enhancement.

AREAS OF SPECIALISATION

- Remote Sensing & GIS Applications
- Climate Change & Environmental Analysis
- Spatial Data Modeling & Machine Learning
- Land Use / Land Cover Change Analysis
- Groundwater Potential Mapping
- Soil Erosion and Vulnerability Assessment

FELLOWSHIPS, AWARDS & HONOURS

S.No.	Award / Fellowship	Details
1	ICSSR Doctoral Fellowship	Indian Council of Social Science Research (ICSSR), New Delhi
2	Best Paper Presentation Award	International Geographical Union Conference (IGU), 2022 Paper: "Delineation of Groundwater Potential Zones Using Geospatial Techniques: A Block Level Study of Nainital District, India"

RESEARCH METRICS (GOOGLE SCHOLAR)

240+ Citations	9 h-index	8 i10-index	12+ Publications
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RESEARCH PUBLICATIONS (PEER-REVIEWED INTERNATIONAL JOURNALS)

- Yatendra Sharma**, Haroon Sajjad, Tamal Kanti Saha, Nirsobha Bhuyan, Bharat Ratnu, Geeta Kumari, Raihan Ahmed, and Daawar Bashir Ganaie. "Soil loss estimation and susceptibility analysis using RUSLE and random forest algorithm: a case study of Nainital district, India." *Spatial Information Research* 33, no. 3 (2025): 1–18. <https://doi.org/10.1007/s41324-025-00620-5>
- Sharma, Aastha, Haroon Sajjad, Tamal Kanti Saha, Md Masroor, **Yatendra Sharma**, and Geeta Kumari. "Analyzing trend and forecasting of temperature and rainfall in Shimla district of Himachal Pradesh, India using non-parametric and bagging REPTree machine learning approaches." *Journal of Atmospheric and Solar-Terrestrial Physics* 265 (2024): 106352.
- Bhuyan, Nirsobha, Haroon Sajjad, **Yatendra Sharma**, Aastha Sharma, and Raihan Ahmed. "Assessing socio-economic vulnerability to riverbank erosion in the Middle Brahmaputra floodplains of Assam, India." *Environmental Development* (2024): 101027.
- Saha, Tamal Kanti, Haroon Sajjad, Roshani, Md Hibjur Rahaman, and **Yatendra Sharma**. "Exploring the impact of land use/land cover changes on the dynamics of Deepor wetland (a Ramsar site) in Assam, India using geospatial techniques and machine learning models." *Modeling Earth Systems and Environment* (2024): 1–23.
- Sajjad, Haroon, Md Hibjur Rahaman, Md Masroor, **Yatendra Sharma**, Aastha Sharma, and Tamal Kanti Saha. "Vulnerability assessment of forest ecosystem based on exposure, sensitivity and adaptive capacity in the Valmiki Tiger Reserve, India: A geospatial analysis." *Ecological Informatics* 80 (2024): 102494.
- Yatendra Sharma**, Haroon Sajjad, Tamal Kanti Saha, Nirsobha Bhuyan, Aastha Sharma, and Raihan Ahmed. "Analyzing and forecasting climate variability in Nainital district, India using non-parametric methods and ensemble machine learning algorithms." *Theoretical and Applied Climatology* (2024): 1–17. <https://doi.org/10.1007/s00704-024-04920-y>
- Yatendra Sharma**, Raihan Ahmed, Tamal Kanti Saha, Nirsobha Bhuyan, Geeta Kumari, Swades Pal, and Haroon Sajjad. "Assessment of groundwater potential and determination of influencing factors using remote sensing

and machine learning algorithms: A study of Nainital district of Uttarakhand state, India." *Groundwater for Sustainable Development* 25 (2024): 101094. <https://doi.org/10.1016/j.gsd.2024.101094>

8. Bhuyan, Nirsobha, Haroon Sajjad, Tamal Kanti Saha, **Yatendra Sharma**, Md Masroor, Md Hibjur Rahaman, and Raihan Ahmed. "Assessing landscape ecological vulnerability to riverbank erosion in the Middle Brahmaputra floodplains of Assam, India using machine learning algorithms." *Catena* 234 (2024): 107581. <https://doi.org/10.1016/j.catena.2023.107581>

9. Bhuyan, Nirsobha, **Yatendra Sharma**, Haroon Sajjad, and Raihan Ahmed. "Estimating bank-line migration of the Brahmaputra River in the Middle Brahmaputra floodplains of Assam, India using digital shoreline analysis system." *Environmental Earth Sciences* 82, no. 16 (2023): 385.

10. Roshani, Haroon Sajjad, Tamal Kanti Saha, Md Hibjur Rahaman, Md Masroor, **Yatendra Sharma**, and Swades Pal. "Analyzing trend and forecast of rainfall and temperature in Valmiki Tiger Reserve, India, using non-parametric test and random forest machine learning algorithm." *Acta Geophysica* 71, no. 1 (2023): 531–552.

11. Kumari, Geeta, **Yatendra Sharma**, and Haroon Sajjad. "Assessing livelihood vulnerability of rural communities in Dimapur district of Nagaland state, India: policy implications." *GeoJournal* 88, no. 3 (2023): 3143–3162.

12. **Yatendra Sharma**, Raihan Ahmed, and Haroon Sajjad. "Assessing vegetation condition across topography in Nainital district, India using temperature vegetation dryness index model." *Modeling Earth Systems and Environment* 8, no. 2 (2022): 2167–2181. <https://doi.org/10.1007/s40808-021-01208-2>

CONFERENCE PRESENTATIONS

#	Paper Title	Conference / Venue
1	Delineation of Groundwater Potential Zones Using Geospatial Techniques	International Conference, Central University of Haryana (2022)
2	Soil Loss Estimation in Nainital District Using RUSLE and GIS	National Seminar, Jamia Millia Islamia (2021)
3	Assessing Vegetation Trends Using TVDI Model	National Seminar, Aligarh Muslim University (2020)

TECHNICAL PROFICIENCIES

GIS & Remote Sensing	ArcGIS (9.3–10.3), ERDAS Imagine, QGIS (3.2+), ENVI
Hydrological Modelling	HEC-RAS (5.3), Global Environmental Flow Calculator
Landscape Analysis	Fragstat, Landscape Fragmentation Tool (LFT)
Machine Learning	Weka 3.8.2, Jupyter Notebook, R, VS code
Statistical Tools	SPSS (17.0), XLSTAT

WORKSHOPS, FDP & TRAINING PROGRAMMES

#	Programme	Organiser / Venue
1	FDP on "New Education Policy"	Patrician Institution's Innovation Council & MGNMRS Innovation Council (Dec 2021)
2	International Webinar on "Disaster Risk Reduction, Resilience, and Sustainability"	Institute of Public Enterprise, Hyderabad (Sep 2021)
3	ATAL FDP on "GIS & Remote Sensing"	Institute of Engineering & Technology, Devi Ahilya University, Indore (Jul 2021)
4	Remote Sensing & Digital Image Processing Training	Indian Institute of Surveying and Mapping, Hyderabad (2016)

ACADEMIC PROFILES & ONLINE PRESENCE

Google Scholar	https://scholar.google.com/citations?user=y-8Mv1MAAAAJ&hl=en&oi=ao
Research Gate	https://www.researchgate.net/profile/Yatendra-Sharma-5?ev=hdr_xprf
Institutional Email	g.ysharma@jmi.ac.in Jamia Millia Islamia
