




Faculty Details Proforma



Title	Dr.	First Name	Suraj Kumar	Last Name	Mallick	Photograph
Designation	Assistant Professor in Geography					
Address	Shaheed Bhagat Singh College, University of Delhi, Sheikh Sarai, Phase-II, New Delhi 110017, India. Shaheed Bhagat Singh College (sbbsc.in)					
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Web-Page	Dr. Suraj Kumar Mallick – SHAHEED BHAGAT SINGH COLLEGE (sbbsc.in) https://orcid.org/0000-0003-0994-086X					
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Vidyasagar University				2022	
M.Sc	Vidyasagar University				2016	
B.Sc (Hons)	University of Kalyani				2014	
DCA	JNNYC				2012	
Career Profile						
<ul style="list-style-type: none"> Assistant Professor at Department of Geography, Shaheed Bhagat Singh College, University of Delhi (April, 2023- till date) Post-Doctoral Fellow with Institute Assistantship, Centre For Technology Alternatives For Rural Areas, Indian Institute of Technology Bombay (IITB), Powai, Mumbai. (January, 2023 - April, 2023) Research Associate, Department of Geography, Delhi School of Economics, University of Delhi, New Delhi. (September, 2022 – January, 2023) Contractual Whole Time Teacher (CWTT), Bajkul Milani Mahavidyalaya, Vidyasagar University, Purba Medinipur, West Bengal. (July, 2017 – June, 2018) 						
Areas of Interest / Specialization						
<ol style="list-style-type: none"> Urban Geography and Regional Planning Remote Sensing and GIS Water Resource Management Climate Change Research 						
Research Profile						

Google Scholar Link: <https://scholar.google.com/citations?user=-PPZK7MAAAAJ&hl=en>

Google Scholar Citation: 1055 **h-index:** 20 (as of 10/07/2025)

Scopus Citation: 550 **h-index:** 14 (as of 10/07/2025)

Research Guidance

Ph.D. Supervision: 3 (Ongoing)

Research Articles

1. Tun, K. Z., Pramanik, M., **Mallick, S. K.**, Chakraborty, R., Halder, B., ..., & Zhran, M. (2025). Cooling the Cities: A Comprehensive Review of Urban Heat Island Mitigation Strategies in Southeast Asia. *Human Settlements and Sustainability* 1(2), 91-102.
2. Sahu, N., Kesharwani, R., Das, P., ..., **Mallick, S.K.**, & Mishra, M. M. (2025). Spatiotemporal dynamics of rice cultivation in India. *Tropical Ecology*, 66(1), 152-167.
3. Manna, H., **Mallick, S. K.**, Sarkar, S., & Roy, S. K. (2025). Developing decision making framework on built-up site suitability assessment for urban regeneration in the Industrial cities of Eastern India. *Scientific Reports (Nature)* 15, 5708.
4. Rudra, S., Das, P., **Mallick, S. K.**, Maity, B., Sahu, N., & Khan, U. (2025). Application of geo-spatial and geo-statistical techniques in site suitability analysis for potential urban built-up area development. *Environment, Development and Sustainability*, 1-29.
5. Maity, B., Rudra, S., **Mallick, S. K.**, & Pramanik, M. (2025). Monitoring of Urban Heat Island Intensities and Outdoor Thermal Comfort in an Industrial City: A Study Towards Sustainable Urban Heat Reduction. *Journal of the Indian Society of Remote Sensing*, 1-22.
6. Sahu, N., Nayan, R., Panda, A., Varun, A., Kesharwani, R., Das, P., Kumar, A., **Mallick, S.K.**, Mishra, M.M., Saini, A. and Aggarwal, S.P., 2024. Impact of changes in rainfall and temperature on production of Darjeeling Tea in India. *Atmosphere*, 16(1).
7. **Mallick, S. K.** (2024). Peri-urban interface: challenges and opportunities in spatial planning and management. *Modern Cartography Series*, 11, 529-542.
8. Sahu, N., **Mallick, S. K.**, Das, P., Saini, A., Sayama, T., Varun, A., ... & Thakur, P. K. (2024). Climatic impacts on spring disappearance in the Indian Himalayas. *Geomatics, Natural Hazards and Risk*, 15(1), 2433115.

9. Sarkar, S., **Mallick, S. K.**, Manna, H., & Roy, S. K. (2024). Urbanization-Induced Land Use Dynamics and Its Impacts on Present and Future Urban Ecosystem Services in the Industrial Cities of India. *Earth Systems and Environment*, 1-25.
10. **Mallick, S. K.**, Sahu, N., Das, P., Maity, B., Varun, A., Kumar, A., ... & Rudra, S. (2024). Impact of urban growth in Delhi and Its Peri-urban environment on urban heat exposure. *Urban Climate*, 56, 102010.
11. Abdo, H. G., Vishwakarma, D. K., Alsafadi, K., Bindajam, A. A., Mallick, J., **Mallick, S. K.**, ... & Hysa, A. (2024). GIS-based multi-criteria decision making for delineation of potential groundwater recharge zones for sustainable resource management in the Eastern Mediterranean: a case study. *Applied Water Science*, 14(7), 160.
12. Rane, N. L., **Mallick, S. K.**, Saha, A., Pande, C. B., Rane, J., Roy, R., ... & Radwan, N. (2024). Appraisal on suitable landfill site selection for municipal solid waste disposal using GIS and MIF methods. *Physics and Chemistry of the Earth, Parts A/B/C*, 134, 103591.
13. Sahu, N., Das, P., Ratna, S. B., Saini, A., **Mallick, S. K.**, Kumar, A., & Mohapatra, M. (2024). A bibliometric analysis for Indian summer monsoon variability. *Spatial Information Research*, 1-17.
14. **Mallick, S. K.** (2024). Urban built-up area footprint (UBAF): A novel method of urban bio-capacity and ecological sensitivity assessment. *Journal of Cleaner Production*, 140846.
15. Rane, N. L., Günen, M. A., **Mallick, S. K.**, Rane, J., Pande, C. B., Giduturi, M., ... & Alreshidi, M. A. (2024). GIS-based multi-influencing factor (MIF) application for optimal site selection of solar photovoltaic power plant in Nashik, India. *Environmental Sciences Europe*, 36(1), 5.
16. **Mallick, S. K.**, Rudra, S., & Maity, B. (2022). Land suitability assessment for urban built-up development of a city in the Eastern Himalayan foothills: a study towards urban sustainability. *Environ Dev Sustain*. 1-26.
17. Rane, N. L., Achari, A., Choudhary, S. P., **Mallick, S. K.**, Pande, C. B., Srivastava, A., & Moharir, K. N. (2023). A decision framework for potential dam site selection using GIS, MIF and TOPSIS in Ulhas River basin, India. *Journal of Cleaner Production*, 423,

138890.

18. Sahu, N., Das, P., Saini, A., Varun, A., **Mallick, S. K.**, Nayan, R., ... & Kumar, A. (2023). Analysis of Tea Plantation Suitability Using Geostatistical and Machine Learning Techniques: A Case of Darjeeling Himalaya, India. *Sustainability*, 15(13), 10101.
19. **Mallick, S. K.**, Rudra, S., & Maity, B. (2023). Unplanned urban built-up growth creates problem in human adaptability: Evidence from a growing up city in eastern Himalayan foothills. *Applied Geography*, 150, 102842
20. Maity, B., **Mallick, S. K.**, Das, P., & Rudra, S. (2022). Comparative analysis of groundwater potentiality zone using fuzzy AHP, frequency ratio and Bayesian weights of evidence methods. *Applied Water Science*, 12(4), 63.
21. Maity, B., **Mallick, S.K.** & Rudra, S. (2022). Spatiotemporal dynamics of urban landscape in Asansol municipal corporation, West Bengal, India: a geospatial analysis. *GeoJournal*, 87, 1619–1637.
22. **Mallick, S. K.**, & Rudra, S. (2021). Land use changes and its impact on biophysical environment: Study on a river bank. *The Egyptian Journal of Remote Sensing and Space Science*, 24(3), 1037-1049.
23. Maity, B., **Mallick, S. K.**, & Rudra, S. (2021). Integration of urban expansion with hybrid road transport network development within Haldia Municipality, West Bengal. *The Egyptian Journal of Remote Sensing and Space Science*, 24(3), 471-483.
24. **Mallick, S. K.**, Pramanik, M., Maity, B., Das, P., & Sahana, M. (2021). Plastic waste footprint in the context of COVID-19: reduction challenges and policy recommendations towards sustainable development goals. *Science of the Total Environment*, 796, 148951.
25. **Mallick, S. K.**, Das, P., Maity, B., Rudra, S., Pramanik, M., Pradhan, B., & Sahana, M. (2021). Understanding future urban growth, urban resilience and sustainable development of small cities using prediction-adaptation-resilience (PAR) approach. *Sustainable Cities and Society*, 74, 103196.
26. **Mallick, S. K.** (2021). Prediction-Adaptation-Resilience (PAR) approach-A new pathway towards future resilience and sustainable development of urban landscape. *Geography and Sustainability*, 2(2), 127-133.

27. **Mallick, S. K.,** & Rudra, S. (2021). Livelihood and environmental sustainability analysis using aquaculture-based indicators: a study on selected CD blocks of Purba Medinipur District, West Bengal. *Indian Journal of Geography and Environment*, 18, 14-24.
28. **Mallick, S.K.,** Rudra, S., & Samanta, R. (2020). Sustainable ecotourism development using SWOT and QSPM approach: A study on Rameswaram, Tamil Nadu. *International Journal of Geoheritage and Parks (Elsevier)*, 8(3):185-193.

Book Chapters in Edited Book

1. Das, P., Rudra, S., Maity, B., **Mallick, S. K.,** Shikary, C., & Sahu, N. (2024). Modelling Urban Growth, Demand–Supply Dynamics, and Climate Resilience: A Study of a Class-I City in Eastern India. In *Cities of Tomorrow: Urban Resilience and Climate Change Preparedness* (pp. 107-130). Springer, Singapore.
2. **Mallick, S.K.,** Maity, B., Das, P., & Rudra, S. (2023). GIS-based groundwater recharge potentiality analysis using frequency ratio and weights of evidence models. In *Case Studies in Geospatial Applications to Groundwater Resources* (pp. 91-108). Elsevier. <https://doi.org/10.1016/B978-0-323-99963-2.00016-X>
3. **Mallick, S.K.,** & Rudra, S. (2021). Analysis of Groundwater Potentiality Zones of Siliguri Urban Agglomeration Using GIS-Based Fuzzy-AHP Approach. In: Shit, P.K., Bhunia, G.S., Adhikary, P.P., Dash, C.J. (eds) *Groundwater and Society*. Springer, Cham. https://doi.org/10.1007/978-3-030-64136-8_7
4. **Mallick, S.K.,** Maity, B., & Rudra, S. (2021). Aquaculture-Based Water Quality Assessment and Risk Remediation along the Rasulpur River Belt, West Bengal. In: Shit, P.K., Adhikary, P.P., Sengupta, D. (eds) *Spatial Modeling and Assessment of Environmental Contaminants. Environmental Challenges and Solutions*. Springer, Cham. https://doi.org/10.1007/978-3-030-63422-3_13

Edited Books and Author Books

1. Rane, N., **Mallick, S.K.,** Kaya, O., & Rane, J. (2025). *Applied Machine Learning and Deep Learning: Architectures and Techniques* **Deep Science Publishing** (ISBN No: 978-81-981271-9-8).

2. Rane, N., **Mallick, S.K.**, Eds (2025). *Large Language Models for Sustainable Urban Development* **Springer Nature**. The Springer Series in **Applied Machine Learning** (ISBN No: 978-3-031-86038-6)
3. Rane, N., **Mallick S.K.**, & Rane, J. (2024). *Artificial Intelligence and Machine Learning for Enhancing Resilience* **Deep Science Publishing**. (ISBN No: 978-93-7185-844-1)

Conference/ workshop Organized

1. Member of the Organizing Committee of **ICSSR and Indian Oil-Sponsored International Conference on “Urban Development Missions Restructuring of Spaces and Emergence of New Urbanism”** 15-16th November, 2024 Organized by Shaheed Bhagat Singh College, University of Delhi held on 15-16th November, 2024.
2. Member of the Organizing Committee of **International G20 Conference** entitled “**Resilient Approaches for New World Order & Viksit Bharat**” on 25th September 2023 at Dr. Ambedkar International Centre (DAIC), New Delhi Organized by Shaheed Bhagat Singh College, University of Delhi, New Delhi-110017.
3. Member of the Organizing Committee of National Workshop on Heat Wave 2023 Early Planning and Effective Action: Saving Lives. **Indian Institute of Technology Bombay, National Disaster Management Authority, and Government of India**. 13th - 14th February, 2023.

Awards and Distinctions

Young Research Award 2022, Indian Institute of Scholar, Bangalore, India

Administrative Responsibilities

- 2025-2026: Member of College Website Development Committee, Shaheed Bhagat Singh College, University of Delhi.
- 2024-25: Member of the Central Admissions Committee, Shaheed Bhagat Singh College, University of Delhi.
- 2024 - continue: Nodal officer of Indian Research Information Network System (IRINS), Shaheed Bhagat Singh College, University of Delhi.
- 2024- continue: Time Table Management and Workload Committee, Shaheed Bhagat Singh College, University of Delhi.
- 2023-2024: Convenor of Landscape Magazine Committee, Shaheed Bhagat Singh College, University of Delhi.
- 2023-2024: Member of the Central Admissions Committee, Shaheed Bhagat Singh College, University of Delhi.

Paper presentation/ Invited Lecture/Resource Person

Invited lecture/ Special Guest/ Resource Person

1. **Invited as a Resource Person in State-Level Seminar** entitled “**Sundarbans and Environment**” on 15th June, 2025 Jointly Organized by Purbasha Eco-Helpline Society and Department of Geography, Aliah University, Kolkata.
2. **Invited as a Guest Speaker in National Level Workshop** entitled “**Application of GIS**” on 12th June, 2025 organized by Department of Geography and IQAC of Chakdaha College, University of Kalyani, West Bengal.
3. **Invitation for Invited Lecture** entitled “**Life Below Water and SDGs-14**” on 22nd March, 2025 organized by Rotaract Club SBSC, University of Delhi, New Delhi
4. **Invited as Resource Person in ANRF-SERB Sponsored National Conference** entitled “**Towards A Sustainable Future: Climate Change, Clean Energy and Environmental Sustainability**” on 19th-21st March, 2025 organized by Department of Geography and Zoology, Raja Narendra Lal Khan Women’s College (Autonomous), Midnapore-721 102, West Bengal.

Paper Presentation and Conference participation

1. Peri-urban interface: challenges and opportunities in spatial Planning Organised by **Shaheed Bhagat Singh College, University of Delhi**, New Delhi on 15-16th November, 2024.
2. Climatic Change and Anthropogenic Impacts on Spring Disappearance in Himachal Pradesh, India at the National Seminar on “Disaster Risk Reduction in the Himalayas: Recent Advancements” organized by the **Centre for the Study of Regional Development, Jawaharlal Nehru University**, New Delhi held on 20-21 September 2024.
3. GIS-based land suitability assessment for urban built-up area development. **International Geographical Union (IGU) Thematic Conference**, 2022 Organized by ICSSR and University of Haryana 24-25th November, 2022.
4. Water Quality Assessment (WQA) of the Newly Emerged Aquaculture Areas of Purba Medinipur District, West Bengal. National Conference on **Geo-spatial Intelligence for Environmental Hazards and Disaster Management** Organized by **Raja N.L. Khan Women’s College (Autonomous)** 5-6th March, 2022.
5. Change monitoring of urban built-up area using CA-Markov method on Siliguri urban area (SUA), India. **International Geographical Union (IGU)**, India, Organized by University

of Burdwan, on 6-8th March, 2020.

6. Groundwater Potentiality Zone Analysis Using Fuzzy-AHP Approach on Siliguri Urban Area (SUA), India. **51st Annual Seminar of Regional Science Association India (RASi)**, Organized by Amity University on 13th-15th February, 2020.
7. Sustainable ecotourism development using SWOT and QSPM approach: A study on Rameswaram, Tamil Nadu. **UGC-NSQF sponsored One Day International Conference on Smart Tourism and Travel Trade** by Midnapore College (Autonomous) on 10th January, 2020.
8. Spatio-temporal change analysis of land use and land cover by Geo-spatial techniques. **International Conference on Society and Sustainability: An Interdisciplinary Approach**, Vivekananda College, 12-13th January, 2019.
9. Landscape Transformation and Its Impact on Livelihood and Environment. International Symposium on Recent Trend in **Agriculture Biodiversity and Social Sustainability (ABSS, 2018)**, 30th Sept-01st Oct, 2018 organized by BSI, Allahabad, India.
10. Beating Plastic Waste Pollution: Remedies and Recommendations. One Day Seminar on Beat Plastic Pollution for World Environment Day 2018, organized by Regional Centre of **Zoological Survey of India, Ministry of Environment, Forest and Climate Change, Govt. of India** on 5th June, 2018.
11. A Bio-Geographic View to Assess the Ecological Sensitivity on Dalma Wildlife Sanctuary, East Singhbhum, Jharkhand. **UGC-ICSSR Sponsored National Seminar on Contextualising Issues in Applied Geography**, Vidyasagar University, 04-05th March, 2016.

Workshop and Training Courses/FDP/CBP

1. Participated and completed **Faculty Induction Programme (Online FIP)** (Guru Dakshta) organized by **Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College** under the **Malaviya Mission Teacher Training Programme** from 02 - 28 June, 2025.
2. Participated and completed **Two-week CBP** on organized by the School of Social Sciences at **UGC- Malaviya Mission Teacher Training Centre, UGC-MMTTC JNU, New Delhi** from 30th September to 11th October 2024.

3. Participated and completed **One week FDP on NEP 2020 Orientation & Sensitization Programme** organized by **UGC-Malaviya Mission Teacher Training Centre, UGC-MMTTC JNU** through online mode from 18th March to 28th March, 2024.
4. Participated and completed **One-week FDP on Communication and Presentation Skills in Classroom Teaching** (18-22 December 2023) organized by **University of Delhi**.
5. Participated in **One Day FDP on NEP 2020: Pedagogical Imperatives of Higher Education** organised by **University of Delhi** held on 1st December, 2023.
6. Participated and completed **Three days Training Programme on “Disaster Response and Preparedness Towards Building Resilient Institution”** jointly organised by **University of Delhi and National Institute of Disaster Management (NIDM)** from 3 April, 2024 to 5 April, 2024.
7. Participated in International G20 Conference on **“Resilient Approaches for New World Order & Viksit Bharat”** at **Dr. Ambedkar International Centre, New Delhi, India** organised by **Shaheed Bhagat Singh College, University of Delhi** held on September 25, 2023.
8. Participated in International Webinar on **“Blue Planet: Environmental Change, Vulnerability and Geopolitics of Ocean”** Organised by **IGI-Young Geomorphologists Forum (IGI-YGF)** held on 8 June, 2023.
9. National Workshop on Heat Wave 2023 Early Planning and Effective Action: Saving Lives. **Indian Institute of Technology Bombay, National Disaster Management Authority, and Government of India**. 13th - 14th February, 2023.
10. Skill Based Creative Tourism Development for Revitalizing the Identities of Local Communities. **Central University of Jammu in Associated with Global Initiative of Academic Networks (GIAN), Government of India**. 18th April, 2022 to 22nd April, 2022.
11. Three Months’ training programme on **Python for GIS and Mapping** (Online Mode), **International Institute of Geospatial Science and Technology (IIGST), India**. 17th July 2021 to 01st November, 2021.
12. Three Days’ Programme on COVID-19 Second Wave and Logistic Supply Chain

Management on 11 May 2021 to 13 May 2021 (Online Mode). **National Institute of Disaster Management, Ministry of Home Affairs, Government of India in collaboration with Federation of Indian Chambers of Commerce and Industry, India.**

13. Emerging Challenges for Disaster Risk Reduction, New Strategies and 15th Finance Commission (Online Mode), 27-29th May, 2021. **National Institute of Disaster Management, Ministry of Home Affairs, Government of India in collaboration with Central University of Tamil Nadu, India.**
14. Forest Fires Risk Mitigation and Management in Mizoram (Online Mode), 12th May, 2021. **National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with Centre for Disaster Management Mizoram University, India.**
15. Hospital Management during COVID-19 Surge on 29th April, 2021 (Online Mode). **National Institute of Disaster Management, Ministry of Home Affairs, Government of India.**
16. Improved Climate Change Strategies in Water Resources, 12-18th November, 2018. **Global Initiative of Academic Networks (GIAN), Indian Institute of Technology Kharagpur, India.**
17. Seven Days' Workshop-cum-Hands on Training Programme on Application of ArcGIS Software in Research Methodology, 29th oct-4th Nov, 2018. **The Centre for Environment and Economic Development (CEED), New Delhi, Niti Aayog, Govt. of India.**

Reviewing Activities in Reputed Journals

1. Science of The Total Environment (ISSN:1879-1026) July, 2021- till date
2. Urban Climate (ISSN:2212-0955) October, 2021 - till date
3. Ecological Indicator (ISSN:1872-7034) August, 2023- till date
4. Environmental Development (ISSN:2211-4645) December, 2022- till date
5. Environment, Development and Sustainability (ISSN: 1573-2975) Dec, 2022-till date
6. Trees, Forests and People (ISSN: 2666-7193) October, 2021- till date

7. Sustainability (ISSN:2071-1050) 2022- till date
8. Energies (ISSN: 1996-1073) 2022- till date
9. Buildings (ISSN:2075-5309) 2022- till date
10. Environmental Monitoring and Assessment (ISSN:1573-2959) December, 2023
11. Scientific Reports (ISSN: 2045-2322) August, 2024- till date
12. Discover Series (Springer) April 2025- till date

Date: 10/07/2025

Suraj Kumar Mallick

Signature
(Dr. Suraj Kumar Mallick)