




Faculty Details Proforma



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|---|--|------------|-------------|-----------|-------------|---|
| 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. | | | | | |
| Date of Birth | 03-11-1993 | | | | | |
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| Web-Page | Dr. Suraj Kumar Mallick – SHAHEED BHAGAT SINGH COLLEGE (sbsc.in) | | | | | |
| 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 | | | | | | |
| <ol style="list-style-type: none">1. Assistant Professor at Department of Geography, Shaheed Bhagat Singh College, University of Delhi (April, 2023- till date)2. 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)3. Research Associate, Department of Geography, Delhi School of Economics, University of Delhi, New Delhi. (September, 2022 – January, 2023)4. Contractual Whole Time Teacher (CWTT), Bajkul Milani Mahavidyalaya, Vidyasagar University, Purba Medinipur, West Bengal. (July, 2017 – June, 2018) | | | | | | |
| Areas of Interest / Course Taught | | | | | | |
| <ol style="list-style-type: none">1. Urban Geography and Regional Planning2. Remote Sensing and GIS3. Statistical Methods in Geography | | | | | | |
| Research Profile | | | | | | |
| Google Scholar Link: https://scholar.google.com/citations?user=-PPZK7MAAAAJ&hl=en | | | | | | |

ORCID ID: <https://orcid.org/0000-0003-0994-086X>

Publications

Research Articles

1. 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. <https://doi.org/10.1007/s41748-024-00440-x>
2. **Mallick, S. K.**, Sahu, N., Das, P., Maity, B., Varun, A., Kumar, A., ... & Rudra, S. (2024). Impact of urban growth in Delhi and It's Peri-urban environment on urban heat exposure. *Urban Climate*, 56, 102010. <https://doi.org/10.1016/j.uclim.2024.102010>
3. 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. <https://doi.org/10.1007/s13201-024-02217-z>
4. 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. <https://doi.org/10.1016/j.pce.2024.103591>
5. 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. <https://doi.org/10.1007/s41324-024-00587-9>
6. **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. <https://doi.org/10.1016/j.jclepro.2024.140846>
7. 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. <https://doi.org/10.1186/s12302-023-00832-2>

8. **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. <https://doi.org/10.1007/s10668-022-02857-8>
9. 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. <https://doi.org/10.1016/j.jclepro.2023.138890>
10. 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. <https://doi.org/10.3390/su151310101>
11. **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. <https://doi.org/10.1016/j.apgeog.2022.102842>
12. 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. <https://doi.org/10.1007/s13201-022-01591-w>
13. 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. <https://doi.org/10.1007/s10708-020-10315-z>
14. **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. <https://doi.org/10.1016/j.ejrs.2021.11.002>
15. 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.
<https://doi.org/10.1016/j.ejrs.2020.10.005>

16. **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. <https://doi.org/10.1016/j.scitotenv.2021.148951>
17. **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. <https://doi.org/10.1016/j.scs.2021.103196>
18. **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. <https://doi.org/10.1016/j.geosus.2021.06.002>
19. **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.
20. **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. <https://doi.org/10.1016/j.ijgeop.2020.06.001>

Book Chapters in Edited Book

1. **Mallick, S.K.** (2024). Peri-urban interface: challenges and opportunities in spatial planning and management. In: Sahana, M (ed) *Remote Sensing and GIS in Peri-Urban Research*. Elsevier (pp. 529-542). <https://doi.org/10.1016/B978-0-443-15832-2.00023-X>

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

Conference/ Workshop Organized

1. 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.
2. 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
UGC NET JRF (Geography) in January, 2017.
UGC NET & Lectureship (Geography) July, 2016.

Other Activities

Paper Presentation and Conference participation

1. 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.

2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. A Bio-Geographic View to Assess the Ecological Sensitivity on Dalma Wildlife Sanctuary, East Singbhum, Jharkhand. **UGC-ICSSR Sponsored National Seminar on Contextualising Issues in Applied Geography**, Vidyasagar University, 04-05th March, 2016.

Workshop and Training Courses

1. Participated in **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.
2. Participated in **One-week FDP on Communication and Presentation Skills in Classroom Teaching** (18-22 December 2023) organized by **University of Delhi**.
3. Participated in **One Day FDP on NEP 2020: Pedagogical Imperatives of Higher Education** organised by **University of Delhi** held on 1st December, 2023.
4. 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.
5. 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.
6. 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.
7. 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.
8. Skill Based Creative Tourism Development for Revitalizing the Identities of Local Communities. **Central University of Jammu in Association with Global Initiative of Academic Networks (GIAN), Government of India**. 18th April, 2022 to 22nd April, 2022.
9. 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.
10. 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**.
11. 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.**

12. 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.**

13. Hospital Management during COVID-19 Surge on 29th April, 2021 (Online Mode). **National Institute of Disaster Management, Ministry of Home Affairs, Government of India.**

14. Improved Climate Change Strategies in Water Resources, 12-18th November, 2018. **Global Initiative of Academic Networks (GIAN), Indian Institute of Technology Kharagpur, India.**

15. 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.**

Administrative Assignments

2024 - continue: **Nodal officer of Indian Research Information Network System (IRINS), 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.**

2024-25: **Member of the Central Admissions Committee, Shaheed Bhagat Singh College, University of Delhi.**

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 (Springer Nature) August, 2024- till date

Date: 18/09/2024

Suraj Kumar Mallick

Signature
(Dr. Suraj Kumar Mallick)