



Miranda House

UNIVERSITY OF DELHI

Name: **Dr. Shipra Singh**

Department: **Geography**

Current Designation: **Assistant Professor**

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Academic Qualifications (reverse chronological order):

- **PhD** (Climate Change and Water Resource Sustainability) Department of Geography, Delhi School of Economics, University of Delhi, Nov 2018- 2023.
- **Masters (Geography)** Department of Geography, Delhi School of Economics, University of Delhi, 2014-2016.
- **BA (H) Geography** from Miranda House, University of Delhi, 2011-2014.

Research Degree(s) (reverse chronological order):

- Senior Research Fellow at UGC.
- Junior Research Fellow at UGC.
- Geospatial Analyst with 6th Grain Global Private Limited, July 2016- November 2017.

Area of interest: Environment Geography, Climate Studies, Remote Sensing and GIS, Agriculture Geography & Disaster Management.

Field of Specialization under the Subject/Discipline: Climate Change, Water Resources & Soil and Water Assessment Tool and Disaster Management.

Total Teaching Experience: 4.5 years

Teaching at Miranda House since: 14th January, 2020

List of Publications (reverse chronological order):

- **Singh, S.** et al. (2024) 'Establishing the relationship between land use land cover, normalized difference vegetation index and land surface temperature: A case of Lower Son River Basin, India', *Geography and Sustainability*, 5(2), pp. 265–275. doi:10.1016/j.geosus.2023.11.006.
- Sarkar, A.; Bandyopadhyay, N.; **Singh, S.**; Sachan, R. (2024) (ed.). "Addressing Risk, Uncertainty and Maladaptation to Climate Change: Policy, Practice, and Case Studies" book series *Disaster Risk Reduction Methods, Approaches and Practices*, Springer Nature Switzerland, DOI: 10.1007/978-981-99-9474-8.



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- **Singh, Shipra**, Kumar, Pankaj et al. (2022) Review of Soil and Water Assessment Tool for Watershed Analysis in India and China: Opportunity and Challenges. International Journal of Emerging Technologies and Innovative Research, Vol.9, Issue 10, b588-b595.
- Sarkar, A., **Singh, S.**, Sachan, R. (2024). Contextualizing “Risk”, “Uncertainty” and “Maladaptation” in the Context of Climate Change. In: Sarkar, A., Bandyopadhyay, N., Singh, S., Sachan, R. (eds) Risk, Uncertainty and Maladaptation to Climate Change. Disaster Risk Reduction. Springer, Singapore. https://doi.org/10.1007/978-981-99-9474-8_1.
- **Singh, Shipra**, Kumar, Pankaj et al. (2020) Governance and Public Health: Indian Response to COVID-19 Disaster. Disaster & Development, Vol. (9), No. 2, 109-134.

Seminars/Workshops/Conferences/Courses Organized (reverse chronological order):

- **Organised** Training Program on “Enabling Cities for Disaster resilience to Achieve Sustainable Development” from 08-12 July, 2024 at USRC, Miranda House in collaboration with National institute of Disaster Management, National Institute of Urban Affairs and Delhi Disaster Management Authority.
- **Organised** Seminar on Chemical Hazard and Chemical Disaster Management on 24th April, 2024 at Disaster Preparedness Team.
- **Organised** Seminar on “Public Space and Gender” from 28-29 May, 2024 at USRC, Miranda House in collaboration with National Institute of Urban Affairs, Doers and Sparsh CCTV.
- **Organised/ Convener** Seminar on Disaster Management : Role of Community on 5th February, 2024 at Disaster Preparedness Team.
- **Course Coordinator** of Three Months Certificate Course on “Sustainable Pathways to Environment, Society and Governance from 27th Sept- 26th Dec, 2023 organized by CESDM, Miranda House.
- **Convener, Seminar** on “The Past, Present and Future of the Anthropocene: Lessons for Sustainability” by Prof. Mike Meadows, President of International Geographical Union at CESDM, MH on 10 October, 2023.
- **Organised Seminar (Co-Convener)** on “Geodiversity from Geographical Perspectives” in collaboration with International Geographical Union and International Geoscience and Geoparks Programme, UNESCO on 8 October, 2023 at Centre for Environmental studies and Disaster Management, Miranda House.
- **Organised/Convener, Seminar** on “Contemporary Visualization Tools and Urban Heat Mitigation” at Department of Geography in collaboration with CESDM, MH on 22 August, 2023.
- **Organised** International Webinar to observe World Day for Combating Drought and Desertification on 16th June, 2023.
- **Organised** Three Days Online Training Program cum Workshop on GIS Mapping for Disaster Mitigation and Risk Reduction from 9-11 May, 2023.
- **Organised** National Workshop/Training Program on Raising Awareness on Urban Air Quality, Climate Change, Health and E-resilience on 18th April, 2023.
- **Organizing Member** of “Tempest 2022”, the annual festival of Miranda House, University of Delhi.
- **Organized** International Seminar on “Social and Environmental Justice and Disaster Management” at Centre for Environmental Studies and Disaster Management, Miranda House in collaboration with



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IGU Commission of Mountain Studies on 28th November, 2022.

- **Organized** Seminar on Disaster Resilience in collaboration with National Institute of Disaster Management on 20th September 2022.
- **Organized** an Online Training Programme on “Disaster Resilient Built up Infrastructure of the Institutions: Focus on Earthquake and Fire” from 14-16th June, 2022.
- **Organized** an International Webinar on “Addressing Risk, Uncertainty and Maladaptation to Climate Change” on 26 April, 2022 in Department of Geography, Miranda House.
- **Organized** a Five Days Training Workshop on Climate Change Adaptation from 4-8th April, 2022 at Centre for Environmental Studies and Disaster Management, Miranda House, University of Delhi.
- **Organized** Training and Demonstration Activity by National Disaster Response Force (NDRF) on ‘Rescue and Relief’ on 13th April 2022.
- **Organized** Five days Face to Face Training Program on “Understanding the Vulnerability and Risk associated with Urban Areas” from 23rd to 27th November, 2021 at Centre for Environmental Studies and Disaster Management, Miranda House, University of Delhi.
- **Organised** Training Workshop on “Introduction to Google Earth Engine” on 14th and 15th Feb, 2019 in Dept. of Geography, Delhi School of Economics in collaboration with IGU Task force for Young & Early Career Geographers.

Seminars/Workshops/Conferences Attended (reverse chronological order):

- **Presented** Paper on Dynamics of Land Use Land Cover Change and its Impact on Land Surface Temperature in Lower Son River Basin, India in International Conference on Climate Change, Disaster Management and Environmental Sustainability organized by Jamia Milia Islamia, New Delhi from 21-22 February, 2024.
- **Convener** of a thematic session on “Landscape dynamics and extreme events in the Himalaya: experiences and case studies” in International Workshop on Geography and Sustainability held in Beijing, China from 26-29 Oct, 2023.
- **Presented** paper on “Land Surface Temperature Responses to Land Use Land Cover Dynamics: A Case Study of Lower Son River Basin, India” in International Geographical Union (IGU) Thematic Conference on “Sustainability, Future Earth and Humanities: Opportunities and Challenges” organised by Department of Geography, Central University of Haryana, Mahendergarh, India on November 24th -25th, 2022.
- **Participated** in “2022 International Training Workshop on Earth Observations for Sustainable Development in Developing Countries Online” from 26th to 28th July, 2022.
- **Participated** in “BRICS-JVRIS Training” (Online Training on Validation and Application of Remote Sensing Products in Ecology and Environment for BRICS Countries) from 24th to 26th May, 2022.
- **Presented** paper on “Governance and Public Health: Indian Response to COVID-19 Disaster” in ICDP organized by Shaheed Bhagat Singh College, University of Delhi on 8th and 9th January, 2022.
- **Participated** National Online workshop on Teaching Geography organized by Department of Geography, University of Delhi from 15-17 December, 2021.
- **Presented** research paper on “Agricultural Water Use and River Basin Conservation: A Case Study of Son River Basin” in International Conference on Food, Water and Nutrition Security for Health and Well Being organized by Shaheed Bhagat Singh College, University of Delhi on 13th and 14th December, 2021.



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- **Participated** in training on HEC-RAS Modelling at TGIS Online Platform, Ahmedabad, Gujarat on 22 Aug, 2020.
- **Participated** in the Online Round Table Conference on “Geographical Perspectives of Water Resources: Issues and Challenges” on 16th July, 2020 organized by National Association of Geographers, India (NAGI) and Russian Geographical Society.
- **Participated** in Webinar on the topic “Reverse Migration Amidst Covid 19: Issues and Challenges” organized by D.A.P.S.A., New Delhi on June 7, 2020.
- **Participated** in 1 day GIS Workshop on topic “Integrating GIS with Geography” on 14th May, 2020 organized by Swastik Edustart and Department of Geography, Miranda House.
- **Participated** in the National Webinar on “Urban Health Hazard and Preparedness in Global Pandemic Covid 19” hosted by Department of Geography, SBSC and Centre for Disaster Management Studies in association with NIDM on 2nd May, 2020.
- **Presented** a paper on “Overview of SWAT and its Future Applicability” in XII International Geographical Union, India Conference on Climate Change, Natural Disasters and Sustainable Development organized by Govt. Post Graduate College, Panchkula from 22 – 24 February, 2019.
- **Participated** in Google Earth Engine Training Workshop organised by Department of Geography, Delhi School of Economics on 14-15 Feb, 2019.
- **Participated** in Training Course on Hydrologic Modelling Using QSWAT during 11-22 June, 2018 at National Institute of Hydrology, Roorkee.

Position of Responsibility

- **Resident Tutor** of Miranda House Hostel (01.09.2023 - till date)
- **Convener**, Snapshots- The Photography Society of Miranda House (01.10.2023- till date)
- **Member**, Alumnae Connect Cell, Miranda House
- **Founding Member** of Urban Studies and Research Centre, Miranda House.
- **Founding Member** of Centre for Environmental Studies and Disaster Management, Miranda House.
- **Faculty Adviser**, Student’s Union, MHSU 2024-2025.
- **Faculty Adviser** in Disaster Preparedness Team Society of Miranda House.
- **Faculty Adviser** in Adventure Club of Miranda House, University of Delhi.
- **Mentor** of 3 students from Miranda House in 1st AIU National Women Student Parliament (ANWSP-Fest) for the session 2022-23 held at Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.) from 14-16 March 2023 under the aegis of the Association of Indian Universities (AIU), New Delhi.
- **Mentor** of research team of 4 BA (H) Geography students of Miranda House in **National Geographers Youth Conclave** organized by Shaheed Bhagat Singh College, University of Delhi held on 27-28 January, 2022.
- Acted as **Rapporteur** and Session-in-Charge of Technical Session-II in International Geographical Union (IGU) Thematic Conference on “Sustainability, Future Earth and Humanities: Opportunities and Challenges” organized by Department of Geography, Central University of Haryana, Mahendergarh, India on November 24th-25th, 2022.
- **Resource Person** in Hands on Training on Environmental Pollution Assessment Techniques organized by CESDM, Miranda House from 19th to 30th September, 2022.
- Acted as **Rapporteur** of Technical Session-II in International Conference on Challenges to Disaster Risk Reduction and Resilient Habitat organized by Centre for Disaster Management Studies, SBSC, DU held on April 5-6, 2022.



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- Delivered an **invited lecture** at Centre for Environmental Studies and Disaster Management, Miranda House on the topic “Climate Change Adaptation and Mitigation” held on 4 April, 2022.
 - **Faculty Coordinator** in annual fest of Department of Geography, Miranda House “Globe” held on 6 April, 2022.
 - **Faculty Coordinator**, Miranda House for **12th Indo-Dutch Collaborative Programme** on SDG10: Reduce Inequality Within and Among Countries from January 27, 2020 to 1st February, 2020.

Membership of Professional Bodies

- Member of American Association of Geographers.
- Corresponding member of the IGU Commission on Research Methods.