



Miranda House

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Name: Dr. Ankita Medhi

Department: Geography

Current Designation: Assistant Professor

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Google Scholar: <https://scholar.google.co.in/citations?user=X-OUsvYAAAAAJ&hl=en>

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Academic Qualifications:

- Doctor of Philosophy (Ph.D.), 2019, Department of Geography, Delhi School of Economics, University of Delhi, Delhi
Topic: Rural Road Development using Geoinformatics: A case study of Jorhat District Assam
- Master of Philosophy (M.Phil.), Department of Geography, Delhi School of Economics, University of Delhi, Delhi
Topic: Impact of Land use/cover on the Rhino Habitat in Kaziranga National Park, Assam
- Master of Arts (M.A.), University of Delhi, Delhi
- Bachelor of Arts (B.A. Hons.), Dibrugarh University, Assam

Field of Specialization under the Subject/Discipline:

Geoinformatics, Object Based Image Analysis Approach (OBIA), Cartography, Environmental Geography, Transport Geography

Total Teaching Experience: 6 years

Teaching at Miranda House since: 2019



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List of Publications:

- Pathak, B., Khataniar, A., Das, B., Upadhaya, S., Medhi, A. Bhuyan, P.K., Buragohain, A.K. & Borah, D. (2022). Spatio-temporal diversity of biological aerosols over Northeast India: a metagenomic approach. *Environmental Science Pollution Research*, Vol 29, Issue 42, 64096–64111, <https://doi.org/10.1007/s11356-022-20323-w>, (eISSN 1614-7499) (Scopus Indexed)
- Medhi, A. and Saha, A.K. (2019). Rural Road Extraction using Object Based Image Analysis (OBIA): A case study from Assam, India, *Advances in Cartography and GIScience of the International Cartographic Association*, Vol. 1, <https://doi.org/10.5194/ica-adv-1-13-2019> (eISSN 2570-2084) (Peer-reviewed)
- Medhi A. (2017). Rural roads in India: An overview of connectivity status. *South -Asian Journal of Multidisciplinary Studies*, Vol. 4 Issue 6 (ISSN:2349-7858)
- Medhi, A. and Saha, A.K. (2014), Land cover change and rhino habitat mapping of Kaziranga National Park, Assam, In: Singh, M., Singh, R.B. & Hassan, I. (Eds.) *Climate Change and Biodiversity: Proceedings of IGU Rohtak Conference*, Vol. 1, Springer, Japan, pp. 125-138, https://doi.org/10.1007/978-4-431-54838-6_10 (ISBN 978-4-431-54837-9) (Peer-reviewed)

Research Projects:

Research Associate, (2018) for project "Urbanization and Human Capital Development in Assam", Institute for Studies in Industrial Development (ISID) Delhi

Research Guidance:

- Mentor for one student research group at National Geographers' Youth Conclave organized by Shaheed Bhagat Singh College, University of Delhi, 2022
- Mentor for one student research group at Geographers' Youth Conclave organized by Shaheed Bhagat Singh College, University of Delhi, 2019
- Mentor of Interns at Centre for Environmental Studies and Disaster Management (CESDM), Miranda House, University of Delhi, 2022

Membership of Professional Bodies:

- Member of ICA Commission on the History of Cartography
- Member of ICA Commission on Geospatial Analysis and Modelling
- Life Member of Indian Society of Remote Sensing (ISRS, Dehradun)
- Life Member of Association for Geographical Studies (AGS)
- Member of National Association of Geographers India (NAGI)



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Administrative Responsibilities:

- Extended Admission Committee Member, UG Admissions 2021, University of Delhi
- NAAC Committee Member (2021-22), Miranda House, University of Delhi
- Extended Admission Committee Member, UG Admissions 2022, University of Delhi

Invited talks/Session chair/Resource person:

Attended/Participated as Rapporteur for the session entitled Poster Presentation II at International Conference on “Future Challenges and Sustainable Development Goals: Science to Policy Framework” organized by Shaheed Bhagat Singh College from 16th -18th April, 2021

Conferences Organized:

- Coordinator of Seminar on “Social and Environmental Justice and Disaster Management” organized by Centre for Environmental Studies and Disaster Management (CESDM), Miranda House, University of Delhi in collaboration with IGU Commission of Mountain Studies, 28th November, 2022
- Organizing Committee Member of Online Training Programme on “Disaster Resilience Built up Infrastructure of the Institutions: Focus on Earthquake and Fire” organized by Centre for Environmental Studies and Disaster Management (CESDM), Miranda House, University of Delhi in collaboration with National Institute of Disaster Management (NIDM), Govt. of India, 14th – 16th June, 2022
- Organizing Committee Member of International Webinar on “Addressing Risk, Uncertainty and Maladaptation to Climate Change” organized by Department of Geography, Miranda House, University of Delhi, 26th April, 2022
- Organizing Committee Member of Workshop on “Climate Change Adaptation” organized by Centre for Environmental Studies Disaster Management, Miranda House, University of Delhi, 4th-8th April, 2022
- Co-Convener of online International Conference on “Geography of Nostalgia: An Analysis of Behavioral Adjustment across spaces during Covid-19”, jointly organized by Shaheed Bhagat Singh College, Delhi University and International Coordination and Development Programme on 8th -9th January, 2022
- Organizing Committee Member of Face to Face Training program on "Understanding the Vulnerability and Risk associated with Urban Areas" organized by Centre for Environmental Studies Disaster Management, Miranda House, University of Delhi, 23rd – 27th November 2021
- Organizing Committee Member of National Conference on Spatial Dimensions of Environmental Problems and Natural Resource Law organized by Shaheed Bhagat Singh College, University of Delhi, 3-4th September 2019
- Organizing Committee Member of National Conference on Historical Geographies of Location and Cultural Evolution in India Delhi organized by Shaheed Bhagat Singh College, University of



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Delhi, 13-14th April, 2019

- Organizing Committee Member of International Conference on Livable Cities organized by Shaheed Bhagat Singh College, University of Delhi, Delhi, 5-7th February 2018

Paper presented in Seminars/Conferences:

- Mapping Water Bodies during Indian Monsoon using Object Based Image Analysis (OBIA): A Case Study of Majuli Island, Assam, India, International Geographical Union Thematic Conference 24th-25th November, 2022, Mahendragarh, India
- “Mapping Water bodies extent during Indian Monsoon: A Study of Majuli Island” at GI Forum, 2020
- “Rural Road Extraction using Object Based Image Analysis (OBIA): A case study from Assam, India” at International Cartographic Conference, 15-20th July, 2019, Tokyo, Japan
- “Historical geography of Jorhat in Assam: An Insight into Development” at National Conference on Historical Geographies of Location and Cultural Evolution in India” Delhi, 13-14th April, 2019
- “Geographic Object Based Image Analysis (GEOBIA): Enhancing image analysis approaches” at XII IGU International Conference, Panchkula, 22-24th February, 2019
- “Making cities livable: An insight from the field” at International Conference on Livable Cities, Delhi, 5-7th February 2018
- “Understanding the perspective of Indian adults towards Indian literature on Nature” at Sixth Northern Regional Social Science Congress, Udaipur, 18-20th January, 2019
- ‘Rural Road Development in Assam: An Overview of Pradhan Mantri Gram Sadak Yojna (PMGSY) Programme Implementation’ at National Association of Geographers of India Conference (NAGI), December 2016
- Perspective of Smart Cities and role of Geographical Information System in their Development’ at National Conference on Smart Cities: Challenges and Vision Ahead, April, 2015
- ‘An Object Based Image Analysis (OBIA) approach for Land Resources Mapping’ at UGC-SAP-DRS National Seminar, Department of Geography, University of Delhi, March 2015
- ‘Land cover change and rhino habitat mapping of Kaziranga National Park, Assam’ at International Geographical Union Conference, Rohtak, March 2013
- ‘Identification of threats to a wildlife sanctuary in urban area using Remote Sensing and GIS: Deepor Beel, Assam’ at National Seminar C.K.B. Commerce College, Jorhat, Assam, May 2012



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Trainings and Workshops attended:

- Online Course on “Geospatial technology for hydrological modelling” organized by IIRS, Dehradun, 19-30th July, 2021
- Online workshop “SAR Application for flood hazard mapping and monitoring” organized by IIRS, Dehradun, 16th July, 2021
- International Online Workshop on “Data Analysis Using Python” organized by University of Lucknow, 31st July - 2nd August, 2020
- “GEOBIA Summer School 2020 (Virtual)” organized by University of Salzburg, Austria, 1st June - 10th July, 2020
- “GIS Workshop on Integrating GIS with Geography (online)” organized by Swastik Edustart, Delhi and Department of Geography, Miranda House, 14th May, 2020
- “Google Earth Engine (GEE) Workshop” at Department of Geography, Delhi School of Economics, University of Delhi on 14-15th February, 2019
- Training on ‘Remote Sensing–GIS with TNTmips Software: Special reference to Livelihood Security in Changing Socio-economic Environment in Himachal Pradesh’ organized by Department of Geography, University of Delhi, December 2013
- Training on ‘Integrated District Planning’ organized by National Institute of Rural Development–North Eastern Regional Centre (NIRD-NERC), Guwahati, June 2013
- Training on ‘Statistical Package for Social Sciences (SPSS)’ organized by Delhi University Computer Centre, University of Delhi, October 2009