

**Meghna Ray**

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RESEARCH INTERESTS

Paleoenvironments, Glacial geomorphology, Fluvial geomorphology, Himalaya.

RESEARCH EXPERIENCE

August 2021-February 2022- Junior Research Fellow in a project titled “Risk Assessment of Floating Debris Dominated Flash Floods in Trans-Boundary Upper Himalayan Catchments” funded by Defence Geoinformatics Research Establishment (DGRE)/ Defence Research and Development Organization in Indian Institute of Technology, Guwahati, Assam, India.

FIELD EXPERIENCE

August 2021- data collection about underlying strata in Indian Institute of Technology, Guwahati Campus using Ground Penetration Radar and Multi-Channel Analysis of Surface Waves Survey

January 2020- 2-day field visits to the highest point in the Delhi Ridge of the Aravalli Mountains to collect samples for Cosmogenic Nuclide dating under the supervision of Dr. Lewis Owen and Dr. Milap Chand Sharma.

June-July 2019- 17-day field work as a part of MA course in Jankar Chu watershed, Himachal Pradesh, India learning basics of sample collection for radiometric dating and other field-based geomorphological techniques

October-November 2017- 2-week field trip as a part of B. Sc. Course in Meghalaya Plateau, witnessing karst landscape and studying the matrilineal society.

EDUCATIONAL QUALIFICATIONS

| Standard/ Degree | Year | Educational Institution | Affiliation of Educational Institute | Marks / Grades | Subjects |
|---------------------|------|---------------------------------------|---|-------------------|---|
| TOEFL | 2021 | | ETS | 107 | Reading: 30; Listening: 25; Speaking: 24; Writing: 28. |
| GRE | 2021 | | ETS | 312 | V: 155, Q: 157, AWA: 4 |
| M. A. | 2020 | Jawaharlal Nehru University, Delhi | Jawaharlal Nehru University, Delhi | 6.55/9 | Geography |
| UGC-NET | 2019 | | | | Qualified in A.P. category |
| B. Sc.(H) | 2018 | Loreto College, Kolkata | University of Calcutta | 65.7% (H) | Geog. (H), Economics and Human Rights |

ACADEMIC ACCOLADES

2020- Online Course from NPTEL by Indian Institute of Technology Kanpur on Photogeology in Terrain Evaluation

2020- E-Training on Fundamentals of Aerogeophysical Survey conducted by Geophysics Division of Geological Survey of India Training Institute, Hyderabad, India

2018- The John Maynard Keynes Silver Medal from Loreto College awarded for obtaining highest marks in Economics as pass subject in the Calcutta University among all students of the college.

2018- Microsoft Office certification courses by Loreto college Computer Centre, Kolkata, West Bengal, India

2017- Certificate of Merit for Proficiency in Geography Honours, Loreto College

2016- Certificate of Merit for Proficiency in Geography Honours, Loreto College

2009- Microsoft Office certification courses by Microsoft

TECHNICAL SKILLS

SOFTWARES USED

- QGIS
- ArcGIS
- ERDAS IMAGINE
- HEC-RAS
- RStudio
- SPSS
- STATA
- Stereonet
- eCOGNITION
- MAXENT

INSTRUMENTS USED

- IR Thermometer
 - Schmidt Hammer
 - Vernier calliper
 - Clinometer
 - Ground Penetrating Radar
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PUBLICATION

Ray, M., Bharti, R., & Dutta, S. (2022, July). Quantifying Channel Morphology and Tectonic Deformation of Rispana River Basin Using Geomorphic Markers: Impact of Anthropogenic Factors on the System. In IGARSS 2022-2022 IEEE International Geoscience and Remote Sensing Symposium (pp. 6418-6421). IEEE.

PRESENTATIONS

2022- Quantifying Channel Morphology and Tectonic Deformation of Rispana River Basin Using Geomorphic Markers: Impact of Anthropogenic Factors on the System. IGARSS 2022-2022 IEEE International Geoscience and Remote Sensing Symposium (pp. 6418-6421). IEEE, 20 January 2022

2021- Sanitation Status in Urban Village of Delhi: A Case Study of Khirki, 5th Annual Research on Cities Summit, 10-12 February 2021

INTERNSHIPS AND VOLUNTEERING EXPERIENCE

2018- Community Service at All Bengal Women's Union in 2018, Certificate of Merit issued by Loreto College.

2016- Volunteered at YODDHAS: Youths Fighting Against Cancer, an NGO providing financial support and acting as a support group for Cancer patients and their families as a content writer, for 4 months

CONFERENCES ATTENDED/PARTICIPATED

2020- Small talk attended on 6th March 2020, organized by Centre of Study for Regional Development, JNU, on Quaternary Dating Methods and lecture given by Lewin Owen.

2020- 5-day workshop attended from 3rd to 7th February 2020, organized by Centre of Study for Regional Development, JNU in collaboration with University of Salzburg, Austria, titled "Interdisciplinary Applications of GIScience and Systems".

2017- Participated in a Legal Awareness Course aimed at the Empowerment of Young Women with Focus on Perspective and Skill. Organized by Loreto College, Kolkata on December 7th, 2017.

2016- Attended Seminar titled "India – China Relations- The Future" on 7th May 2016, conducted by Research Centre for Eastern and North Eastern Regional Studies, Kolkata at ICCR Auditorium.