

MADHUSMITA NANDA
CIVIL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI
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RESEARCH INTERESTS

Isotope Geochemistry, Glacial Dynamics

M.Sc. DISSERTATION

3-dimensional digital reconstruction of field outcrops using photogrammetry techniques and extracting structural information from the digital model (Advisor: Dr. Y.K. Singh, IIT Bhubaneswar).

SCHOLASTIC RECORDS

Degree	Board / Institute	Year of passing	Percentage
Ph.D. (Civil Engineering)	IIT Guwahati	Continuing	9.21/10 (CGPA)
M.Sc. (Geology)	IIT Bhubaneswar	2019	8.83/10 (CGPA)
B.Sc. Hons. (Geology)	Utkal University	2017	83.12 (Hons)
+2 Science	CHSE, Odisha	2013	75.00
10 th	BSE, Odisha	2011	88.33

SCHOLASTIC ACHIEVEMENTS

- Qualified IIT-JAM. All India Rank: 55 (2017)
- Qualified GATE (Geology and Geophysics). All India Rank: 517 (2019)
- Qualified GATE (Geology and Geophysics). All India Rank: 276 (2020)

PROFESSIONAL EXPERIENCES

- Summer Intern: Paleoenvironmental reconstruction using stable isotopes (Advisor: Prof. Sanjeev Kumar, PRL, Ahmedabad (2018).
- Guest lecturer (Geology): Saraswati Degree Science College, Cuttack, Odisha (2019-20).

COMPUTATIONAL SKILLS

Windows, Linux, Microsoft Office, ArcGIS 10.7, Corel DRAW X5, Agisoft Photo scanner, GeoVis 3D, Global Mapper and Auto CAD, Arc SWAT, ENVI 5.3.

ANALYTICAL SKILLS

Isotope-Ratio Mass Spectrometer (IRMS), XRD, Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES), and Differential Global Positioning System (DGPS).

EXTRACURRICULAR ACTIVITIES

- Volunteer: Cleanliness drive for Wake-up Kids
- Member: Social Service team "Soul for Solace"
- Assistant Coordinator: Women Welfare Committee, IIT Bhubaneswar
- Coordinator: Career Development Cell, IIT Bhubaneswar
- Student Coordinator: PhD council, SAB, IIT Guwahati
- DPPC Student Head: Department of Civil Engineering, IIT Guwahati

FIELD EXPERIENCES

- Structural and lithological studies in and around Ambaji, Gujarat Organized by School of Earth, Ocean and Climate Sciences, IIT Bhubaneswar. (Instructors: Prof. T. K. Biswal, IIT Bombay, and Dr. R.K. Singh, IIT Bhubaneswar)
- Fieldwork and mine visits to OMC Chromite Mines (Sukinda), Daitari Iron Mines (Daitari), and Dera colliery (Talchir), Odisha.