

# AMARJYOTI BORAH

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amarjyotiborah 

## Profile summary

2021, Dec onwards: **Assistant Professor** in Department of Geology, The Assam Royal Global University, Guwahati.  
2021, Jan-2021, Nov: Guest Faculty in Post Graduate Department of Geology, Pragjyotish College, Guwahati – (Teaching Postgraduate and Undergraduate student).  
2016, Jan-2020, Dec: Guest Faculty (5 years) in Geology Department, Sibsagar College – (Teaching Undergraduate student).

## Achievements

- Qualified **CSIR NET (LS)** in Earth, atmospheric, ocean and planetary sciences held in 16th June, 2019.
- Qualified in **GATE** examination, held in 2019 conducted by Indian Institute of Technology, Madras on behalf of the National coordination board for the Department of Higher Education, Ministry of Human Resource Department (MHRD), Government of India.
- Qualified in **GATE** examination, held in 2017 conducted by Indian Institute of Technology, Roorkee on behalf of the National coordination board for the Department of Higher Education, Ministry of Human Resource Department (MHRD), Government of India.
- Qualified in **IIT JAM** examination with all India rank 177, held in 2013 combine conducted by Indian institute of technology State topper in Geology in higher secondary examination conducted by Assam Higher Secondary education council, 2009.
- State topper in Geology in AHSEC Examinations, 2009.

## Educational qualification

2018- Pursuing Ph.D. in Applied Geology, Dibrugarh University.

2012-14 Masters of Science, completed in 2014 from Gauhati University, Guwahati, Assam. M.Sc. Project: A study on sedimentary textures, structures and lithofacies sequence of a bank attached sediment bar of the Brahmaputra River near Majirgaon of Kamrup district (rural), Assam.

2009-12 Bachelor of Science, (Geology as Honors with Physics, Mathematics), from Cotton College, Guwahati, Assam.

2007-09 Higher Secondary, Board: AHESC, from Sibsagar Junior College, Sivasagar, Assam.

2007 Secondary School, Board: SEBA, from Shankardev Vidya Niketan, Melachakar, Sivasagar.

## Research Interest

- **Paleomagnetism:** Dating the sediments as well as volcanics and understanding past movements of tectonic plates.
- **Quaternary Geology:** Using sediment characteristics to reconstruct past environments, including changes in river systems over time. Includes the study flood deposits, or analyze grain size variations to understand past river behavior.
- **Disaster Management Studies:** To mitigate the impact of natural disasters like floods. Interested in using the understanding of fluvial dynamics and past flood events to develop flood prediction models, design flood control measures, or improve floodplain management strategies.

## Ongoing Research topics

- Geology of the Eastern Himalaya.
- River dynamics in Assam.
- Flood Hazard assessment in urban landscapes of Assam.

## Research Project

Title	Funded by	Tenure
"Unveiling the Age of Lichi Volcanics in Papumpare District, Arunachal Pradesh, NE India: A Paleomagnetic Perspective". (As Co-PI).	The Assam Royal Global University	1.5 years (2024- 2025)

## List of abstracts publications in conference

1. "Lithofacies analysis, textural variations in the sequence and mode of transportations of the sediments of bank attached bar of the Brahmaputra River in Majirgaon, Kamrup district, Assam". Oral presentation at UGC SAP(DRS II) Sponsored Seminar on Recent Development in Geo Scientific Studies on Shillong-Mikkir Massif, Upper Assam and Eastern Himalayas held in Department of Applied Geology, Dibrugarh University (2016).
2. "Structural characterization of sub Himalayan, West Kameng District along Bhalukpong- Bomdila Road section". Poster presentation at National Seminar cum Workshop on Advance in Science and Technology and Pertinent need of Instrumentation held in Sibsagar College, Joysagar. (2016)
3. "SRTM-DEM Based Spatial Analysis of Road Condition of Bhalukpong-Bomdila-Tawang Road section, Arunachal Pradesh, North East India". Oral presentation at National Seminar on Climate change and Sustainable Development with special focus on North East India held in Nagaland University, Nagaland,India. (2017)
4. "Status and mitigation along probable source of Arsenic Contamination in Assam". Oral presentation at UGC Sponsored national Seminar on Environmental Degradation and its Effects in India with Special reference to north east India held in Jorhat Kendriya Mahavidyalaya, Jorhat, Assam.(2017)

## Book Published

1. “THE MODERN AGE OF SUSTAINABLE DEVELOPMENT” (Paperback, Mr. Tammineni Shyam Swaroop, Dr. Annesha Borah, Mr. Rajdeep Deb, Mr. Amarjyoti Borah, Publisher: Scientific International Publishing House (SIPH), ISBN: 9789357573023

## Book chapter published

1. “Environment toxic chemicals and government regulations” a chapter on a book titled a Reviews on Environmental issues, Vol-1, ISBN9788120288270
2. “Characterization of the Sediments in the Brahmaputra River, A Statistical approach to study river bar sediments at the Upstream and downstream of Guwahati City, Assam, India” on a book titled Open Science, Vol-1, ISBN9788193787465

## Trainings and workshops attended

- Regional workshop on “**Wellbore Stability, Principles of Analogue Models - Dynamic Scaling & Cross Section balancing**” organized by Department of Applied Geology, Dibrugarh University (2016).
- One week workshop on “**Petrography**” organized by Department of Geological Sciences, Gauhati University (2017).
- One week DST sponsored workshop on “**Procedures & Applications of XRD, XRF, Single Crystal XRD**” organized by Sophisticated Analytical Instrument Facility (SAIF), Guwahati.
- One week National workshop on “**Sequence Stratigraphy and Basin Analysis**” organized by Department of Geology, Nagaland University, Kohima Campus, Meriema, Kohima.
- Two week workshop on “**The QGIS Mastery: From Data Loading to Advanced Mapping**” organized by Quest GIS (2024)
- One month “**UGC Sponsored Guru Dakshata Faculty Induction Program**” organized by UGC- MMTC, Gauhati University. (2024)

## Academic positions and responsibilities within RGU

- Assistant Professor: Since 01/12/2021 till date.
- Examination Conduction Team: Assistant Superintendent, Since SEE January 2023
- Member of Anti-Ragging Squad
- Department Exam Coordinator

## Course taken

### Odd Semesters

B.Sc. 1st	Mineral Science
B.Sc. 3rd	River Science (New Syllabus)
B.Sc.5th	Remote Sensing and GIS
M.Sc. 1st	Mineralogy & Crystal Chemistry
M.Sc. 3rd	Remote Sensing and GIS

### Even Semesters

B.Sc. 2nd	-
B.Sc. 4th	-
B.Sc. 6th	River Science
M.Sc. 2nd	GIS in Geology/ Quaternary Geology
M.Sc. 4th	Environmental Geology