

MOHAMMED MAHATHEE HOSSAIN

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Academic Credentials

B.Sc. in Geology

CGPA: 3.6 out of 4.00

February 2019-July 2023

Department of Geology,

University of Dhaka.

Research Interest

- Water Resources Planning and Managements, Groundwater Evaluation and Modelling, Environmental Geology.
- Exploration Geophysics, Seismology, Tectonics.

Research and Fieldwork Experiences

Geological Field Mapping of Sitapahar Anticline, Rangamati
(Funded by Delta Study Center, DU) | February 2024
Supervisors: Dr. Mahfuzur R Khan & Dr. Mostafizur Rahman

Contributions
Collected field data
built stratigraphy.

Cox's Bazar Groundwater Modelling (funded by UNICEF, a collaboration between Department of Public Health Engineering and University of Dhaka) | January 2023-Present

Conducted survey, collecting & calibrating GW monitoring data.

Research Assistant in Groundwater Modelling Lab of
Department of Geology, University of Dhaka | 2023-Present

Built GW flow model using ModelMuse.

Bandarban Land Slide Project (funded by Roads and Highways Department, Bangladesh) | November 2023
Supervisor: Dr. A.S.M. Woobaidullah

Conducted ERT, MASW, SPT at 40 locations.

Groundwater Modeling and Aquifer Boundary Delineation, using geo-electrical methods in Purbachal, Dhaka | April 2020

Conducted ERT.

Relevant Undergraduate Courses

Geophysics • Exploration Geophysics • Applied Petroleum Geology • Seismology and Geodesy • Environmental Geology • Tectonics and Geodynamics • Principles of Hydrogeology • Applied Hydrogeology • Oceanography and marine geology • Hydrogeology Lab • Remote Sensing and GIS lab

Standardized Test Scores

International English Language Testing System (IELTS) – 19th October, 2024

Overall	Listening	Reading	Writing	Speaking
7.5	8.5	8.5	6.5	7

Technical Skills

Basic software:

MS Office Suite

Adobe Illustrator

Modelling software:

ModelMuse (MODFLOW-2005)

Leapfrog.

Programming:

RStudio

Python.

Video Processing software: Kinemaster

Remote Sensing software: ENVI, ERDAS IMAGINE

Arc GIS.

Linguistic Proficiency

- English (Fluent Working Proficiency)
- Bangla (Native Language)

Awards and Achievements

2024 **National Science and Technology Fellowship**, by Ministry of science and Technology

2023 **General Scholarship**, By University of Dhaka for result, regularity and good behaviour

2021 **L. Austin Weeks Undergraduate Grant** by American Association of Petroleum Geologists

2020 Best delegate, “BUFTIMUN”, by BGMEA University of Fashion & Technology

2016 Merit Scholarship in SSC Examination

2015 **National President’s Scout Award**, Bangladesh

2014 Runner Up in Higher Secondary Category, Divisional Mathematical Olympiad

Leadership Experiences

- General Secretary Geo Photographic Club, University of Dhaka | July 2023 to present
- Editor "The Earth Issue No:02" A geoscience magazine of AAPG Dhaka University Student Chapter | July 2021 to present
- Program Chairperson SPE University of Dhaka Student Chapter | 2021- 2022
- Member Dhaka University Model United Nations Association | 2019-2021
- Officer SPE University of Dhaka Student Chapter | 2019- 2020
- Member Bangladesh Sea Scout | January 2012 - December 2017

Training and Workshop

1. Institute for statistical and data science workshop on “Fundamentals of Geostatistics, ECTS equivalent 2” | 2025
2. National workshop on "Landslide Disaster Risk Reduction Approaches in Bangladesh" by CGIS Ltd. of Bangladesh | May 2023
3. Industrial visit and workshop in Sreail Gas Field, Comilla | February 2023
4. Workshop on “Machine Learning for improved CO2 Storage in Deep aquifer Systems” by university of Dhaka and Jadavpur University, India | December 2022
5. Industrial visit to Kailashtila Gas Field and process plant, Sylhet | December 2021

Internship

Senior Instructor- Physics

December 2020 to Present

University Coaching Centre (UCC)

Live classes • Preparing lectures & questions • Evaluating answer sheet

References

Dr. Mahfuzur R Khan

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Associate Professor, Department of Geology,
University of Dhaka

Dr. Mostafizur Rahman

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Professor, Department of Geology,
University of Dhaka