

SUMIT SARKER

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EDUCATION

Noakhali Science and Technology University (NSTU), Noakhali B.Sc. in Oceanography CGPA: 3.81/4.00	2020–2025
Government City College, Chattogram Higher Secondary Certificate (HSC) GPA: 5.00/5.00	2017–2019
Nasirabad Government High School, Chattogram Secondary School Certificate (SSC) GPA: 5.00/5.00	2012–2017

RESEARCH EXPERIENCE

Position 1: Research Assistant **Feni District, Bangladesh (Feni Sadar, Fulgazi, Parshuram, Chhagalnaiya, Sonagazi)**
Project: The Unprecedented August 2024 Flood in Eastern Bangladesh: A Multidisciplinary Analysis of Hydrometeorological Drivers, Loss and Damage, Societal Impact Assessment, and Policy Frameworks for Resilience (Under The National Oceanographic and Maritime Institute – NOAMI from August 2025)
Duties: Conducted household surveys, FGDs, and KIIs; led awareness campaigns; collaborated with NOAMI and Korea SHE Foundation to support flood resilience and policy insights.

Position 2: Research Assistant (Ongoing) **Noakhali, Feni, Lakshmipur & Cumilla, Bangladesh**
Project: Flood Susceptibility Mapping Using Remote Sensing, Hydraulic Modeling, and Community-Based Data Collection. (Under The National Oceanographic and Maritime Institute – NOAMI from April 2025 to Present)
Duties: Conducting flood mapping using remote sensing and GIS; applying MCDA, AHP, HEC-RAS, and HEC-GeoRAS; collecting field data, surveys, and interviews for model validation.

Position 3: Research Assistant (Ongoing) **Noakhali, Feni, Lakshmipur & Cumilla, Bangladesh**
Project: Multi-Hazard Coastal Vulnerability Assessment of Bangladesh Using Geospatial and Participatory Tools. (Under The National Oceanographic and Maritime Institute – NOAMI from April 2025 to Present)
Duties: Contributed to a multi-hazard coastal vulnerability assessment using GIS, remote sensing, and community-based tools. Assisted in field surveys, data analysis, and preparation of vulnerability maps with adaptation recommendations.

Position 3: Research Assistant **Noakhali, Bangladesh**
Project: Identification of Micro plastics in Calanoid Copepod from the Sandwip Channel, Bay of Bengal, Bangladesh. (February 2023 to April 2024)
Duties: Working in the field and collecting water samples; Analyzing Plankton assemblages and water quality; Separating Copepod from plankton assemblages; Extracting micro-plastics from Copepod.

Position 4: Research Assistant **Noakhali, Bangladesh**
Project: Bioaccumulation of Micro plastic in Estuarine Planktons and Associated with Human Health Risk from the Lower Meghna River Estuary. (July 2021 to November 2022)
Duties: Working in the field and collecting water samples; Analyzing Plankton assemblages and water Quality; Separating different types of plankton (gather in group) from plankton assemblages; Extracting micro-plastics from plankton.

ACADEMIC PROJECT

Detection and Analysis of Marine Heatwaves in the Bay of Bengal: ENSO, IOD, and Chlorophyll Dynamics
Course: 4211 (Undergraduate Project)

- Monitored SST anomalies (1982–2025) to detect marine heatwaves (MHWs).
- Analyzed MHW impacts on phytoplankton and coastal ecosystems.
- Assessed MHW frequency, intensity, and duration across ENSO and IOD phases.
- Proposed adaptive strategies for ecosystem and livelihood resilience.
- Investigated correlations between MHW events and chlorophyll-a concentrations using satellite data.

WRITING AND PROPOSAL EXPERIENCE

National Oceanographic and Maritime Institute (NOAMI) Ocean Olympiad 2024: Evaluating The Impact of Diverse Fertilizers on Plankton Abundance and Shrimp Growth Rates in Aquaculture.

- Won 1st Prize

PROFICIENCIES

Hard Skills	Programming	Research oriented	Graphics	Utilities
Field Sampling	MATLAB	QGIS	Adobe Photoshop	MS Office
Laboratory Analysis	Python	ArcGIS	Illustrator	Google Workspace
Questionnaire surveys	IBM SPSS	Delft 3D	InDesign	
Lab Teaching	R			
Student Assessment				

POSTER PRESENTATIONS

Presentation 1: Integration of Multi-Criteria Decision Analysis and GIS for Aquaculture Site Suitability in Hatiya Upazila, Noakhali, Bangladesh (Abstract Published in Conference Book)

Venue: 3rd International Conference on Sustainable Fisheries (ICSF) 2025, Faculty of Fisheries, Sylhet Agricultural University, Bangladesh.

Date: 27–28 September, 2025.

Presentation 2: Reviving Coastal Vitality: Unraveling Mangrove Reforestation Effects on Fisheries Biodiversity in Noakhali (Abstract Published in Conference Book)

Venue: 1st International Scientific Conference on Sustainable Aquaculture and Fisheries in Chattogram Veterinary and Animal Sciences University (CVASU), Chattogram, Bangladesh.

Date: 29-30 April, 2025.

Presentation 3: Flood Susceptibility Mapping in Noakhali, Bangladesh Using GIS-Based Multi-Criteria Decision Analysis (MCDA) and The Analytical Hierarchy Process (AHP)

Venue: 1st International Seminar on Blue Economy: Unlocking the Potentials of the Ocean for Sustainable Development of Bangladesh in Bangladesh Maritime University, Senapangan, Matikata MP Check Post, Dhaka Cantonment in Dhaka, Bangladesh.

Date: 21 April, 2025.

Presentation 4: Phytoplankton responses to extreme weather: Effects in the coastal canal of Noakhali, Bangladesh. (Abstract Published in Conference Book)

Venue: 10th International Conference on Water and Flood Management-ICWFM 2025, Institute of Water and Flood Management (IWFM), Bangladesh University of Engineering and Technology (BUET), Dhaka-1000, Bangladesh.

Date: 22-24 February, 2025.

Presentation 5: Coastal Erosion and Accretion Analysis Using Remote Sensing and GIS: A Case Study of Southern Part of Hatiya Island, Bangladesh.

Venue: World Ocean Day Program 2024, Oceanography Cultural Club, Noakhali Science And Technology University, Bangladesh.

Date: 10 June, 2024.

Presentation 6: Response of Phytoplankton Towards Cyclone in the Tropical Coastal Canal of Bangladesh.

Venue: 1st International Seminar on Climate Change And Environmental Sustainability, Noakhali Science And Technology University, Bangladesh.

Date: 30 April, 2024.

Presenation 7: Evaluating The Impact of Diverse Fertilizers on Plankton Abundance and Vannamei Shrimp Growth Rates in Aquaculture.

Venue: 2nd Comilla University Science Club National Science Festival 2024, Comilla University, Bangladesh.

Date: 24 February, 2024.

Presentation 8: Habitat Assessment of Migratory Birds for Conservation: A Systematic Approach by Monitoring Plankton Distribution in Noakhali, Bangladesh.

Venue: Electronics and Electrical Engineering Day 2024, Electronics and Electrical Engineering Department Association, Noakhali Science And Technology University, Bangladesh.

Date: 31 January, 2024.

AWARDS & HONORS

- University Merit Scholarship (awarded for all 4 semesters, 2024–2025, for outstanding academic performance), Noakhali Science and Technology University (NSTU), Bangladesh
- Best Poster Presentation Award at the 3rd International Conference on Sustainable Fisheries (ICSF) 2025, Faculty of Fisheries, Sylhet Agricultural University, Bangladesh.
- Best Poster Presenter Award in 2nd Comilla University Science Club National Science Festival 2024, Comilla University, Bangladesh.
- Won 3rd place in Poster Presentation at Electronics and Electrical Engineering Day 2024, Electronics and Electrical Engineering Department Association, Noakhali Science and Technology University, Bangladesh.

LEADERSHIP

- **Executive Member** at Research And Development Wing, Noakhali Science And Technology University Science Club.
- **Intern at** Ranking Cell, NSTU
- **Campus Ambassador** at Scholarship School BD.
- **Campus Ambassador** at SOI Academy.
- **General member** at NSTU Research Society.
- **General Member** at Cholo Paltai Foundation, NSTU.

LANGUAGES

Bangla: Native | English: Professional

REFERENCES

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