

# FAISAL MAHMUD SAKIB

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## EDUCATION

### Morgan State University

PhD. In Bioenvironmental Science  
(Supervisor: Dr. Xiaowen Li)

Maryland, USA  
2024-Present

### BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY

MSc. In Water Resources Development

Thesis: Investigation of Hydro-Meteorological Drivers Constraining Flood Forecasting for Brahmaputra River and Likely Challenges in Future Climatic Scenarios  
(Supervisor: Dr. Masfiqus Salehin)

Dhaka, BD  
2021-2024

### PATUAKHALI SCIENCE AND TECHNOLOGY UNIVERSITY

Bachelor of Science in Environmental Science and Disaster Management

**Grade: 3.390 out of 4.00**

Thesis: Analyses of Vulnerability in the Coastal Area of Bangladesh: A Practical Application of GIS and RS  
(Supervisor: Dr. Ahmed Parvez)

Patuakhali, BD  
2016 -2020

## AWARDS AND HONORS

- Academic Alliance for Anticipatory Action (AAAA) Fellowship, USAID 2022 -2023
- Travel Fellowship, International Perspectives on Water Resources and the Environment (IPWE) 2022
- Team winner of AI for Bangla Competition for the initiative "Language Translation Tool for Indigenous Communities in Bangladesh" 2021
- Bangabandhu Digital Social Innovation Award 2020 (Education) 2020
- Board Scholarship, Bangladesh Ministry of Education 2006-2015

## EXPERIENCE

### BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY

Research Fellow, Institute of Water and Flood Management

I Have worked as a graduate research fellow in my institution under a project named "Academic Alliance of Anticipatory Action" focused on the effectiveness of Forecast based Financing (FbF) to reduce the vulnerability of flood affected people in Bangladesh and reinforcing the present practice of early warning of upcoming flood led by Tufts University.

October 2022-July 2024

### FOREWARN BANGLADESH

Assistant Risk Monitoring Officer, Bangladesh

I cooperated to develop a tool "for anticipatory actions of the cold wave to gather the data from community representatives", where the country felt that there is a need to identify ways to anticipate the cold wave to take appropriate early actions for the hazard. Based on the need felt by Start Fund Bangladesh members, the objectives of this study, conducted by Forewarn Bangladesh, to understand the impacts, vulnerability, coping strategy, and historical trends in North-Northwestern districts and identified different thresholds of early actions for cold wave

January 2022- September 2022

### CENTER FOR ENVIRONMENTAL AND GEOGRAPHIC INFORMATION SERVICES (CEGIS)

December 2021

Research Consultant, Climate change and Disaster Management Division

Carried out successful qualitative and Quantitative data analyses on environmental catastrophes named "Study on Effect Climate Change on National and Regional Highways Bangladesh and Climate Resilient Design for the Highways of the Coastal Region".

January 2020-

Carried out successful qualitative and Quantitative data analyses on environmental catastrophes named "Flood Risk Assessment of Grounded Solar Power Plant (100 MWAC) in Sona Gazi, Feni District of Bangladesh."

## **ENVIRONMENTAL SCIENCE CLUB**

2020-Present

Co-founder

I am leading in developing geospatial data hub of language, education, health and culture of the indigenous communities in Bangladesh for a better understanding of the landscape's resources of the Barishal, their socio-economic and climate adaptation needs in decision-making on education, structures, natural resource management, the allocation for utility, language preservation etc.

## **PATUAKHALI SCIENCE AND TECHNOLOGY UNIVERSITY**

2016-2020

Undergraduate Research Assistant, Faculty of Environmental Science and Disaster Management

For my undergraduate dissertation, I conducted Analyses of Vulnerability in the Coastal Area of Bangladesh. Calculated Coastal Vulnerability Index and Ranked Vulnerable Upazila of Coastal Bangladesh.

## **TECHNICAL SKILLS**

- GIS and Remote Sensing (ArcGIS, SNAP, QGIS)
- Programming and Machine Learning for Data Science (Python Basic)
- Google Earth Engine
- Statistical Analysis (SPSS, EXCEL/ Google Sheets)
- Microsoft Office Suite and Project
- Graphic Design (Adobe Illustrator, Photoshop, InDesign)
- Basics of MATLAB

## **PUBLICATIONS**

Saha, M. K., A. A. A. Biswas, M. Faisal, J. Meandad, R. Ahmed, J. Prokash and F. M. Sakib (2019). "Factors Affecting to Adoption of Climate-smart Agriculture Practices by Coastal Farmers' in Bangladesh." American Journal of Environment and Sustainable Development 4(4): 113-121.

## **PRESENTATIONS, PANEL DISCUSSION, POSTERS**

- "Qualitative Assessment of Damages Caused In 2022 Extreme Flood Event in Sylhet and Possible Anticipatory Action That Can Be Taken In Future" 9th International Conference on Water and Flood Management-ICWFM 2023
- "Managing Extreme Flood Through Forecast-Based Action: A Case Study in Kurigram, Bangladesh" 9th International Conference on Water and Flood Management-ICWFM 2023
- The 13th Symposium on River, Coastal, and Estuarine Morpho dynamics, (RCEM2023), "Geospatial Exploration of Planform of the Ganges River of Bangladesh". September 2023.
- International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD-2023) on "Landslide Vulnerability in the Sangu-Matamuhuri River Basin of Southeast Bangladesh". (June 2023)
- International Perspective on Water Resources and the Environment (IPWE) on "Anticipatory Actions to Reduce Cold Wave Vulnerability". (January 2023)
- International Conference on Advances in Civil Engineering on "Assessing the socio-economic impacts of Teesta irrigation Project on the local people of Jaldhaka, Nilphamari" (December 2022)
- Presentation on "Analysis of Long-Term Rainfall Patterns for Dhaka in Different Emission Scenarios" in MeteoXchange Conference. (March 2022)
- "Understanding Water Insecurity Dynamics in Slums of Dhaka" in Water Security and Climate Change Conference. (March 2021)
- International Conference on Urban Health on "Evaluation of urban health risks in Dhaka from an environmental perspective". (July 2021)
- EIA Report on 1320MW Payra Thermal Power Plant (February 2019).

## LANGUAGE PROFICIENCY

- Bangla (Native)
- English (Professional working proficiency)
- Hindi (Elementary proficiency)

## References

Dr. Ahmed Parvez  
Professor

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Management,  
Patuakhali Science and Technology University  
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Dr. Masfiqus Salehin  
Professor

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Bangladesh University of Engineering and  
Technology  
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