

# Abdul Mobin Ibna Hafiz

Dhaka, Bangladesh

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🌐 [LinkedIn Profile](#)

🔗 [abdulmobinibnahafiz.github.io](https://github.com/abdulmobinibnahafiz)

## Education

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### Bachelor of Science in Civil Engineering

Bangladesh University of Engineering and Technology (BUET), Dhaka

CGPA: 2.99/4.00

## Research Interest

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- Water Quality and Wastewater Treatment
- Fate, transport, and remediation of contaminants
- Remote Sensing
- Hydraulic Modelling
- Solid Waste Management
- Climate Change

## Standardized Tests

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### **GRE: 314** ([Unofficial Score Report](#))

Quant: 164 (81<sup>st</sup> percentile)

Verbal: 150 (44<sup>th</sup> percentile)

AWA: 4.0 (54<sup>th</sup> percentile)

### **TOEFL: 110** ([Unofficial Score Report](#))

Reading: 30    Listening: 30

Speaking: 23    Writing: 27

## Research Experience

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### Undergraduate Thesis

#### **Treatment of Raw Textile Effluent using Hybrid Constructed Wetland**

Supervisor: Dr. Md. Habibur Rahman, Professor, Department of Civil Engineering, BUET

- Tested various water quality parameters such as Color, Turbidity, COD, NH<sub>4</sub>N, EC, pH, DO.
- Learned to use pH meter, EC meter, DO meter, HACH DR 6000 Spectrophotometer and other water analytical devices.
- Analyzed the removal mechanisms of various pollutants by wetland and the potential of implementing this technology in Bangladesh.

## Academic Project

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### **Design of Water Supply, Sanitation and Sewerage Systems of a Tannery Village | [Report](#)**

- Population Estimation
- Water Demand Calculation
- Water Well Design and Report on Pumping Station Visit
- Determination of Pump Capacity and Pumping Schedule
- Design of Water Supply Distribution Network.
- Design of Sewer Network
- Design of Plumbing System

# Professional Experience

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## Research Assistant at [Living Deltas Hub Project](#) (November 2021 – Present)

- Documented the impacts of climate change on the life of the people living in the Sundarbans Delta Region;
- Learned about the associated changes in the environment and the livelihood of the people using participatory resource mapping, oral history interview and other research methods;
- Used GIS and Google earth engine to detect the change in Land Use and Land Cover of this region to relate them with the changes in the livelihood of the people living in this area;
- Involved in assessing the stresses on the water quality of the different socio-ecological systems (SES) in the Ganges-Brahmaputra-Meghna (GBM) delta.

## Publications

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### 1. Title: Treatment of Raw Textile Effluent using Hybrid Constructed Wetland

- **Authors:** Abdul Mobin Ibna Hafiz, Mostazer Billah
- **Conference:** International Conference on Water and Flood Management by IWFM, BUET

### 2. Title: NDVI: Detection of vegetation change using Remote Sensing and GIS. A study of Barishal City Corporation, Bangladesh

- **Authors:** Md. Jubair Pantho, Zuhayr Shahid Ishmam, Abdul Mobin Ibna Hafiz, Md. Mafizur Rahman.
- **Conference:** 6th International Conference on Civil Engineering for Sustainable Development, ICCESD

### 3. Title: Oral History, mapping and photography in the Bangladesh Sundarbans (Blog)

- **Authors:** Abdul Mobin Ibna Hafiz, Chamithri Greru, Siobhan Warrington | [Link](#)

## Technical Skills

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- C++
- MATLAB
- Python
- JavaScript
- AutoCAD
- ArcGIS
- Google Earth Engine
- EPANET
- Origin
- LateX
- Microsoft Office
- Adobe Illustrator

## Leadership and Extracurricular Activities

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### General Secretary, BUET Literature Club

Managed the club, organized and conducted multiple online and offline seminars and workshops

May 2019 –

November 2020

### Office Secretary, BUET Literature Club

Aided in running the logistics of the club and worked as a crew in multiple programs

July 2018 –

May 2019

## Achievements

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- Second Runner Up, Bangladesh Regional Math Olympiad
- First Runner Up, Divisional Math Olympiad
- Educational Board Scholarship (2016 – 2019)

## References

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Sonia Binte Murshed  
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