

# SALMA AKTER

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## EDUCATION

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### M.Sc. in Oceanography

2024 - Present

Shahjalal University of Science and Technology | Sylhet, Bangladesh

### B.Sc. (Honours) in Oceanography

2019 – 2024

Shahjalal University of Science and Technology | Sylhet, Bangladesh

CGPA: 3.30

## RESEARCH INTERESTS

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Geographic Information Systems (GIS), Biological Oceanography, Marine Ecology, Environmental Science, Pollution.

## RESEARCH EXPERIENCE

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### Research Project

#### ***Diversity and abundance of Macrobenthos between Salimpur Coast and Shah Pari Island, Bangladesh***

January 2024

Shahjalal University of Science and Technology | Sylhet, Bangladesh

- Conducted field-based research on macrobenthos diversity along the South-East coast of Bangladesh
- Analyzed species richness, abundance, and ecological indicators using biodiversity indices and GIS mapping.

### Academic Projects

#### **1. A spatial analysis of SST and Chlorophyll Concentration of North Sea**

- To leverage GIS and remote sensing skills in analyzing SST and chlorophyll variations, as demonstrated in my North Sea project
- To apply spatial analysis expertise in environmental data interpretation, as shown in my study of the North Sea

#### **2. Role of Cyclone “Sidr” on Chlorophyll distribution in Bay of Bengal**

- Experienced in satellite remote sensing and oceanographic data analysis, demonstrated through research on Cyclone Sidr's impact on chlorophyll distribution in the Bay of Bengal.
- Skilled in analyzing oceanographic phenomena using satellite data, as evidenced by research on the effects of Cyclone Sidr on chlorophyll concentration and SST in the Bay of Bengal.

#### **3. Environmental Impact Assessment on Temukhi Point and Surrounding Areas, Sylhet**

- Conducted EIA to assess pollution impacts and suggest mitigation at nine urban sites.

- Collected field data and proposed solutions for sustainable environmental management.

### **Intern Projects**

1. *Empowering Coastal Communities and Strengthening Marine Biodiversity Conservation in Bangladesh: Integrated Approaches for Five Marine Protected Areas and 19 Coastal Districts of Bay of Bengal* (Proposal)
2. *Coral restoration and mapping in the Saint Martin Island*

### WORK EXPERIENCE

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#### **Intern**

##### **Cosmo Foundation**

- Worked on coral conservation and marine biodiversity in Saint Martin's Island.
- Assisted in coral vulnerability assessment and data collection on reef health.
- Collaborated with research labs for coral restoration and ecological monitoring.

### TECHNICAL SKILLS

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- **Software Skills:** ArcGIS, QGIS
- **Programming Language:** Python, R
- **Tools:** Microsoft Word, Microsoft PowerPoint, Microsoft Excel
- **Languages:** English, Bangla

### CERTIFICATIONS

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1. Volunteer, "International Symposium on Marine Resource Management", by Shahjalal University of Science and Technology, Sylhet.
2. Microsoft Excel: Basic to Advanced

### MEMBERSHIPS

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1. SUST Career Club | Departmental Executive, SUST, Sylhet (March 2019- February 2020)
2. Chokh Film Society | Workshop and Study Circle Secretary, SUST, Sylhet (October 2022- November 2023)

### REFERENCES

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#### **Dr. Subrata Sarker**

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Department of Oceanography  
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#### **MD Shajjadur Rahman**

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