

# Farzana Jamal

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## RESEARCH INTEREST

Geographic Information Science & Remote Sensing, Climate Change Modelling, Web GIS

## ACADEMIC BACKGROUND

### MS in Geography and Environmental Studies

University of Chittagong, Chattogram – 4331, Bangladesh  
CGPA: 3.90

March 2024 – August 2025

### BSc. in Geography and Environmental Studies

University of Chittagong, Chattogram – 4331, Bangladesh  
CGPA: 3.66

March 2019 – March 2024

## WORK EXPERINCE

### Voluntary Research Assistant (Remote)

Department of Civil and Environmental Engineering, College of Engineering  
King Faisal University  
Al-Ahsa 31982, Saudi Arabia

April 2024 – Present

### Research Assistant

Department of Geography and Environmental Studies  
University of Chittagong, Bangladesh

January 2024 – July 2025

### Research Assistant

Geospatial Health Research Group  
The Center for Health Innovation, Research, Action and Learning – Bangladesh

April 2024 – June 2024

### Intern

Geospatial Health Research Group  
The Center for Health Innovation, Research, Action and Learning – Bangladesh

January 2024 – March  
2024

## SKILLS

### Technical Skills

ArcGIS Pro, QGIS, R programming  
Certification

**Fundamentals of GIS (Coursera)**; University of California, Davis; Completed the course  
on March 24, 2024; Grade received: **96.80%**; Link: <https://bit.ly/4ojEhSY>

### Computer Skills

Microsoft Office package: **Microsoft Word, Excel, PowerPoint, Access**

### Language Skills

- Mother tongue: BENGALI
- Other language: ENGLISH

**IELTS**: Overall Band Score: **7.0** (L: 7.00, R: 6.00, W: 6.5, S: 7.5)

## THESIS (MS)

Impact of Sea Level Rise on the Coastal Urban Configuration: A Case Study on the Coastal Belt of  
Chattogram City, (2025)

## ACADEMIC RESEARCH PROJECTS (FIELD WORK)

- (1) Climate change and its impact on livelihood of local people of the Sundarbans, Khulna, (2023)
- (2) Soil Characteristics and Agricultural Pattern in Khadim Nagar Union, Sylhet, Bangladesh, (2022)
- (3) A Study on Morphological and Ecological Characteristics of Guliakhali Beach, Chattogram, (2021)
- (4) Land use and Land use changing pattern - A case study in Feni Pouroshava, Chattogram, (2019)

## PUBLICATIONS

- (1) Mitra, B., Uddin, M. S., **Jamal, F.**, Mahmud, K., Rahman, S. M., & Rahman, M. M. (2025), (Accepted  
with minor revisions) Modeling Future CO2 Trajectories in Fast-Growing Asian Economies: Synergizing  
Deep Learning and Shared Socioeconomic Pathways. **Climatic Change**.

(2) Haider, M. A., **Jamal, F.**, Uddin, M. M. (2024), A Geographical Appraisal of Mirsharai Pourashava, Chattogram. **CUS Bulletin on Urbanization and Development**.

<http://dx.doi.org/10.13140/RG.2.2.33149.58085>

(3) Hossain, M. J., Tuhin, M. A. A., Mim, N. A., Akter, N., **Jamal, F.**, Mehjabin, K., Sakib, M. N., (2024) Exploring the Factors Influencing Heat Stress Risks Using Discomfort Index Method in Bangladesh, **International Conference on Environmental Science and Resource Management**.

<http://dx.doi.org/10.13140/RG.2.2.25013.08160>

## ONGOING/SUBMITTED RESEARCH PROJECTS

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(1) **Jamal, F.**, Haider, M. A., & Akter, H., (2025), (Under Review) Assessing the Impact of Sea Level Rise on Coastal Urban Form and Infrastructure: A Case Study of Chattogram City's Vulnerable Coastal Belt. **Remote Sensing**

(2) Mahmud, K., Mitra, B., Tiwari, S.P., Uddin, M. S., **Jamal, F.**, Rahman, S. M., & Rahman, M. M. (2025), (Under Review) Environmental Drivers of Chlorophyll-a in the Arabian Gulf: A Bayesian-Optimized Decision Tree Ensemble Modeling Approach. **Earth Systems and Environment**

(3) Rahman, M.S., Mitra, B., **Jamal, F.**, Rahman, M. H., & Rahman, M. M., & Rahman, S. M., (2025), (Under Review) A Hyperparameter tuned Boosted Regression Approach for PM2.5 Prediction in South-Asian Cities Using Meteorological Land-cover and Socioeconomic Factors. **Remote Sensing Applications: Society and Environment**

## CONFERENCES AND SEMINARS

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16/05/2024 – 17/05/2024 Tangail-1902, Bangladesh

(1) **International Conference on Environmental Science and Resource Management 2024**

- Evaluated heat stress in Bangladesh (2003–2023) using the **Discomfort Index** and satellite datasets.
- Identified increasing summer discomfort, underscoring the need for targeted **public health** measures.

24/04/2024 Delft, Netherlands

(2) **Water Action Agenda Symposium (Hybrid)**

- Attended symposium on **sustainable water management**, gained insights on strategy implementation.
- Learned about the pivotal **role of youth** in advancing effective **water action**.

## HONOURS AND AWARDS

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(1) **National Science and Technology (NST) Fellowship, 2024 – 25**. Link: <https://bit.ly/4mKpEXx>

- Issued by **Ministry of Science and Technology (MoST)**, People's Republic of Bangladesh.
- Was granted this fellowship for the purpose of conducting **master's thesis**.

(2) **Education Scholarship (General)**, 2025.

- Issued by **Directorate of Secondary and Higher Education**, People's Republic of Bangladesh.
- Was granted this scholarship for **excellence in BSc. (Honours) result**.

## REFERENCES

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**Dr. Syed Masiur Rahman**  
Associate Professor,  
Applied Research Center for  
Environment & Marine Studies,  
King Fahd University of  
Petroleum & Minerals,  
Dhahran 31261, Saudi Arabia;  
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Associate Professor,  
Department of Civil and  
Environmental Engineering,  
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Assistant Professor  
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