

# Towfiqur Rashid

 2007053.towfiq@gmail.com

 Rajshahi, Bangladesh

 AlbertEinstein

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## Education

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**Rajshahi University of Engineering & Technology**, Urban & Regional Planning

- Description 1.
- Description 2.

Rajshahi, Bangladesh

2022 – present

**Notre Dame College**, Science

Dhaka, Bangladesh

2018 – 2021

**KAFCO School & College**, Science

Chattogram, Bangladesh

2016 – 2018

## Experience

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**International Climate Camp 2025**, International Delegate

Engaged in fieldwork, trekking, hands-on sustainability training, cross-cultural engagement, expert sessions, workshops, policy dialogues, and community-based actions focused on climate change and sustainable solutions

- Environment Awareness
- Community Engagement.

Tribhuvan University and

Kathmandu University, Nepal

July 2025 – July 2025

1 month

**Directorate of Research & Extension, Rajshahi University of Engineering & Technology**, Research Assistant

Rajshahi, Bangladesh

2024 – 2025

1 year

- Name of the research project “A Comprehensive Analysis of Integrated Approaches to Groundwater Management: A Case Study of the Northern Region in Bangladesh”.
- Conducted extensive literature review, multi-source data collection (surveys, FGDs, KIIs, PRA), field observations, stakeholder consultations, and hydro-socioeconomic analysis to develop integrated groundwater management strategies for northern Bangladesh.

## Volunteer

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**RUET GIS Club**, Vice President

Rajshahi, Bangladesh

July 2025 – present

## Awards

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**2nd prize winner at Youth's Idea at Sustainable Urban Planning 2025**

May 2025

We have pitched our idea on ‘The Economic Utilization of the Karnaphuli Tunnel with a Balanced Approach to Economic Growth and Ecological Preservation’. Our team has secured 2nd position among 60 teams.

Urban Development Directorate, Ministry of Housing and Public Works, Government of People’s Republic of Bangladesh

[www.facebook.com/share/p/1DjMCUtpja](http://www.facebook.com/share/p/1DjMCUtpja)

**2nd Runner-up at 3rd National Research Project Contest 2024**

May 2024

Our team secured 2nd Runner-up position amidst 88 competitors hailing from 31 universities throughout Bangladesh. The research paper was on ‘Social and Environmental Impact Assessment of Urban Sprawl in Katakhali Municipality of Rajshahi, Bangladesh’. Bangladesh University of Professionals (BUP) Research Society

## **Publications**

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### **ASSESSMENT OF INTERSECTION PERFORMANCE USING TRAFFIC VOLUME AND LAND USE-TRANSPORTATION RELATIONSHIP EVIDENCE FROM RAJSHAHI, BANGLADESH**

This paper discusses about intersection performance of Dhaka-Rajshahi Highway, an important highway of Bangladesh. This study also correlates land use and transportation by assessing socio-economic factor ( $K_{ij}$ ) of Gravity Model deriving from O-D Matrix.

Muhammad Waresul Hassan Nipun, Jahid Hasan, Towfiqur Rashid, Priyam Riddha Biswas, Jannat Jahrah, Jakia Ahmed

[www.researchgate.net/publication/400576865\\_ASSESSMENT\\_OF\\_INTERSECTION\\_PERFORMANCE\\_USING\\_TRAFFIC\\_VOLUME\\_AND\\_LAND\\_USE-TRANSPORTATION\\_RELATIONSHIP\\_EVIDENCE\\_FROM\\_RAJSHAHI\\_BANGLADESH](http://www.researchgate.net/publication/400576865_ASSESSMENT_OF_INTERSECTION_PERFORMANCE_USING_TRAFFIC_VOLUME_AND_LAND_USE-TRANSPORTATION_RELATIONSHIP_EVIDENCE_FROM_RAJSHAHI_BANGLADESH)

### **FLASH FLOOD HAZARD ASSESSMENT USING A GIS-INTEGRATED FUZZY AHP-MCDA TO INFORM NATURE-BASED SOLUTIONS IN FENI AND NOAKHALI, BANGLADESH**

Bangladesh faced a devastating flash flood in Feni and Noakhali, two coastal districts of Bangladesh in 2024. This study has assessed flash flood hazard with Flood Hazard Index (FHI) using a GIS-integrated fuzzy AHP-MCDA approach. and also informs nature-based solutions for flash flood management.

Imtiaz Iqbal Mahfuj, Nawreen Ferdous Tamim, Towfiqur Rashid, Junaid Imam Adib

[www.researchgate.net/publication/400576696\\_FLASH\\_FLOOD\\_HAZARD\\_ASSESSMENT\\_USING\\_A\\_GIS-INTEGRATED\\_FUZZY\\_AHP-MCDA\\_TO\\_INFORM\\_NATURE-BASED\\_SOLUTIONS\\_IN\\_FENI\\_AND\\_NOAKHALI\\_BANGLADESH](http://www.researchgate.net/publication/400576696_FLASH_FLOOD_HAZARD_ASSESSMENT_USING_A_GIS-INTEGRATED_FUZZY_AHP-MCDA_TO_INFORM_NATURE-BASED_SOLUTIONS_IN_FENI_AND_NOAKHALI_BANGLADESH)

### **A Remote Sensing-Based Analysis of Nighttime Light Pollution and Its Regional Spillover Effects in Dhaka, Bangladesh**

This study has analyzed nighttime light pollution in Dhaka, the capital city of Bangladesh and its regional spillover effects on surrounding areas using remote sensing data. The findings reveal significant light pollution in Dhaka, with spillover effects extending to neighboring regions, highlighting the need for effective light pollution management strategies.

Imtiaz Iqbal Mahfuj, Nawreen Ferdous Tamim, Towfiqur Rashid, Md. Sabbir Hossain, Md. Abdullah Al Amin, Md. Mehedi Hasan

[www.researchgate.net/publication/400576713\\_A\\_Remote\\_Sensing-Based\\_Analysis\\_of\\_Nighttime\\_Light\\_Pollution\\_and\\_Its\\_Regional\\_Spillover\\_Effects\\_in\\_Dhaka\\_Bangladesh](http://www.researchgate.net/publication/400576713_A_Remote_Sensing-Based_Analysis_of_Nighttime_Light_Pollution_and_Its_Regional_Spillover_Effects_in_Dhaka_Bangladesh)

### **Exploring Challenges and Opportunities in Community- Based Rural Tourism:A Stakeholder Perspective from Naogaon, Rajshahi, Bangladesh**

This study has explored challenges and opportunities in community-based rural tourism in Naogaon district, Bangladesh from a stakeholder perspective. The level of sustainability will be analyzed by the Multi-Dimensional Scaling (MDS) method and the level of priority of future initiatives will be analyzed by the Analytical Hierarchy Process (AHP) method. The findings reveal that while there are significant opportunities for community-based rural tourism in Naogaon, there are also several challenges that need to be addressed to ensure sustainable development of the tourism industry in the region.

Tasnim Mahmud Rifat, Towfiqur Rashid, Taraquzzaman Tonmoy, Md. Abdul Wakil, Dulal Sarker, Md. Naimur Rahman

[www.researchgate.net/publication/391240123\\_Exploring\\_Challenges\\_and\\_Opportunities\\_in\\_Community-Based\\_Rural\\_Tourism\\_A\\_Stakeholder\\_Perspective\\_from\\_Naogaon\\_Rajshahi\\_Bangladesh](http://www.researchgate.net/publication/391240123_Exploring_Challenges_and_Opportunities_in_Community-Based_Rural_Tourism_A_Stakeholder_Perspective_from_Naogaon_Rajshahi_Bangladesh)

## **REVITALIZING URBAN ACCESSIBILITY: CREATING A PEDESTRIAN PRECINCT FROM ZERO POINT TO MONI CHATTER IN RAJSHAHI CITY, BANGLADESH**

This study has proposed a plan to revitalize urban accessibility by creating a pedestrian precinct from Zero Point to Moni Chattor in Rajshahi City, Bangladesh. The proposed pedestrian precinct aims to enhance walkability, promote sustainable transportation, and improve the overall urban environment in the area. The findings suggest that the implementation of the pedestrian precinct could significantly improve accessibility and quality of life for residents and visitors in Rajshahi City.

Tasnim Mahmud Rifat, Towfiqur Rashid, Md Tarekh Hasan, Taraquzzaman Tonmoy, Dulal Sarker, Md. Shakil Ar Salan

[www.researchgate.net/publication/388116668\\_REVITALIZING\\_URBAN\\_ACCESSIBILITY\\_CREATING\\_A\\_PEDESTRIAN\\_PRECINCT\\_FROM\\_ZERO\\_POINT\\_TO\\_MONI\\_CHATTER\\_IN\\_RAJSHAHI\\_CITY\\_BANGLADESH](http://www.researchgate.net/publication/388116668_REVITALIZING_URBAN_ACCESSIBILITY_CREATING_A_PEDESTRIAN_PRECINCT_FROM_ZERO_POINT_TO_MONI_CHATTER_IN_RAJSHAHI_CITY_BANGLADESH)

## **INVESTIGATING THE EFFECTS OF URBAN SPRAWL FROM SOCIAL AND ENVIRONMENTAL PERSPECTIVE IN KATAKHALI MUNICIPALITY, RAJSHAHI**

This study has assessed the impact of urban sprawl on land use change in Katakhalii Municipality, Rajshahi, Bangladesh. The findings reveal that urban sprawl has led to significant land use changes in the area, including the conversion of agricultural land to residential and commercial uses. The study highlights the need for effective urban planning and management strategies to mitigate the negative impacts of urban sprawl and promote sustainable development in the region.

Towfiqur Rashid, Tasnim Mahmud Rifat, Md Tarekh Hasan, Taraquzzaman Tonmoy, Dulal Sarker, Muhamminul Islam

[www.researchgate.net/publication/388221045\\_INVESTIGATING\\_THE\\_EFFECTS\\_OF\\_URBAN\\_SPRAWL\\_FROM\\_SOCIAL\\_AND\\_ENVIRONMENTAL\\_PERSPECTIVE\\_IN\\_KATAKHALI\\_MUNICIPALITY\\_RAJSHAHI](http://www.researchgate.net/publication/388221045_INVESTIGATING_THE_EFFECTS_OF_URBAN_SPRAWL_FROM_SOCIAL_AND_ENVIRONMENTAL_PERSPECTIVE_IN_KATAKHALI_MUNICIPALITY_RAJSHAHI)

## **Skills**

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**Real-time Object Detection**

**Image Classification**

**Drone Operation**

**Traffic Simulation**

**Machine Learning**

**Remote Sensing**

**Geographic Information Systems (GIS)**

**Statistical Analysis**

**2D and 3D Modeling and Rendering**

## **Languages**

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**Bangla**

Native speaker

**English**

Fluent

## **Interests**

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**Physics**

## **Certificates**

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**Machine Learning**

Jan 2018

**Quantum Computing**

Jan 2018

**Quantum Information**

Jan 2018

## **Projects**

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**Quantum Computing**

Jan 2018 – Jan 2018

Quantum computing is the use of quantum-mechanical phenomena such as superposition and entanglement to perform computation. Computers that perform quantum computations are known as quantum computers.

- Quantum Teleportation
- Quantum Cryptography

## **References**

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**Professor John Doe**

**Professor Jane Smith**