

# Sajib Sarker

## Mailing Address

Department of URP, Chittagong University of Engineering and Technology, Pahartoli, Raozan-4349, Chittagong, Bangladesh

Google Scholar Profile Link: <https://scholar.google.com/citations?user=BwIVnzwAAAAJ&hl=en>

ORCID: <https://orcid.org/0009-0004-9894-150X>

## Contact

+88-01521-576353, +88-01794-693189

sajibsarker@cuet.ac.bd

## Education

### Master of Urban and Regional Planning (MURP)

Chittagong University of Engineering and Technology (CUET), Chattogram, Bangladesh  
Ongoing, Expected Graduation in 2025

### Bachelor of Urban and Regional Planning (BURP)

Chittagong University of Engineering and Technology (CUET), Chattogram, Bangladesh  
Graduated in 2023; CGPA: 3.85/4 (1<sup>st</sup> Merit Position)

### Higher Secondary School Certificate (HSC)

Birshreshtha Noor Mohammad Public College (BNMPC), Pilkhana, Dhaka, Bangladesh  
Passed in 2017; GPA: 5.00/5.00

### Secondary School Certificate (SSC)

Dhaka Collegiate School (DCS), Dhaka, Bangladesh  
Passed in 2015; GPA: 5.00/5.00

## Research Interests

Application of Geographic Information System and Remote Sensing in Planning, Modelling and Simulation, Transportation Planning, Disaster Management and Resilience Planning, Utility Services Management and Planning.

## Bachelor's Thesis

### Investigating Tropical Cyclone Induced Multi-Hazard Risk in Coastal Region Bangladesh Using Fuzzy Analytic Hierarchy Process Model.

Supervisor: Dr. Md. Sarfaraz Gani Adnan,  
Research Fellow in Multi-hazards, University of Strathclyde, DPhil (Oxon)

## Academic Awards

- University Grant Commission (UGC) Merit Scholarship 2022: For Securing First Position in the Whole URP Department and "Architecture & Planning" Faculty.
- University Merit Scholarship: For Securing Top Ten Position in the URP Department of Chittagong University of Engineering and Technology.
- Government Scholarship at Higher Secondary Certificate Examination 2017: For securing top 100 position at Dhaka Board.
- Talent Pool Scholarship: Primary School Certificate Examination 2010.

## Publications in Progress

1. Islam, K., **Sarker, S.**, & Chowdhury, A. (Under Review). Comparison of SVM and RF methods for Analysis and prediction of Land Cover Change Dynamics Using Artificial Neural Network in Rajuk DAP Area, Dhaka. Heliyon.
2. **Sarker, S.**, Das, B., Sharker, Md. Z. R., & S. M. Ataulah (Under Review). Assessing The Impacts of Global Warming on Total Precipitation And Wind Speed in South Asia: A Comparative Analysis Under Ssp2-4.5 And Ssp5-8.5 Scenarios Using Cmp6 Model Forecasts. 7th International Conference on Civil Engineering for Sustainable Development (ICCESD 2024).

## Published Journal Articles

1. **Sarker, S.**, & Adnan, M. S. G. (2023). Evaluating multi-hazard risk associated with tropical cyclones using the fuzzy analytic hierarchy process model. *Natural Hazards Research*, S2666592123001178. <https://doi.org/10.1016/j.nhres.2023.11.007>
2. Islam, K., **Sarker, S.**, Morsad, G., Khan, Mohd. F., Chowdhury, A., & Islam, S. L. U. (2024). Spatial-temporal changes of shoreline and Vegetation: Impacts on mangrove cover along the Sundarbans area, Bangladesh. *Journal of Coastal Conservation*, 28(1), 10. <https://doi.org/10.1007/s11852-023-01016-z>

## Conference Proceedings

1. **Sarker, S.**, Morsad, G., & Mohd. Fardeen Khan. (2022). ANALYZING THE IMPACT OF ROHINGYA SETTLEMENT ON LAND USE, VEGETATION & LAND SURFACE TEMPERATURE AT BHASAN CHAR. BANGLADESH. 6th International Conference on

2. **Sarker, S., & Sharker, Z. R. (2023).** Designing & Revitalizing Hashem Nagar Residential Area: Strategies for Creating Vibrant and Sustainable Neighborhood. In Proceedings of the International Conference on Planning, Architecture and Civil Engineering (pp. 1425-1430). (Vol. 4, Chapter 236). RUET, Rajshahi, Bangladesh.
3. **Sarker, S., & Das, B. (2023).** An Integrated Assessment of the Land use Change Impact on Climatic Factors and Water Quality in the Kalurghat Heavy Industrial Area, Chattogram. In Proceedings of the International Conference on Planning, Architecture and Civil Engineering (pp. 866-871). (Vol. 4, Chapter 142). RUET, Rajshahi, Bangladesh.
4. **Sarker, S. (2023).** Spatiotemporal Analysis of Temperature Extremes Considering Precipitation & Other Influencing Factors Over Bangladesh Using Gridded Observational Datasets. 3rd International Conference on Urban and Regional Planning, Bangladesh.
5. **Sarker, S., Mohd., F. K., Sharker, Md. Z. R., Ahmed, A., & Raja, D. R. (2023).** A Community Participatory Approach for evaluating the Perception of Landslide Affected Community of Moti- Jharna Slum, Chattogram. 3rd International Conference on Urban and Regional Planning, Bangladesh.
6. **Sarker, S., Das, T. (2023).** A Comprehensive Assessment of the Problems & Evaluating the Recreational Value of Patenga Sea Beach Tourism Site Using TCM. In Proceedings of the International Conference on Planning, Architecture and Civil Engineering. (Vol. 4, Chapter 142). RUET, Rajshahi, Bangladesh.

<b>Technical Presentations</b>	<ol style="list-style-type: none"> <li>1. Paper presentation at the International Conference on Advances in Civil Engineering, Title: Impact of Rohingya Settlement on ecosystem &amp; environmental factors at Bhasan Char, Bangladesh, 2022.</li> <li>2. Paper presentation at the International Conference on Urban and Regional Planning, Title: Spatiotemporal Analysis of Temperature Extremes Considering Precipitation &amp; Other Influencing Factors Over Bangladesh Using Gridded Observational Datasets, 2023.</li> <li>3. Paper presentation at the International Conference on Urban and Regional Planning, Title: A Community Participatory Approach for evaluating the Perception of Landslide Affected Community of Moti- Jharna Slum, Chattogram, 2023.</li> <li>4. Paper presentation at the International Conference on Planning, Architecture and Civil Engineering, Title: Designing &amp; Revitalizing Hashem Nagar Residential Area: Strategies for Creating Vibrant and Sustainable Neighborhood, 2023.</li> <li>5. Paper presentation at the International Conference on Planning, Architecture and Civil Engineering, Title: Land use Change Impact on Climatic Factors and Water Quality in the Kalurghat Heavy Industrial Area, Chattogram, 2023.</li> </ol>
<b>Academic Appointments</b>	<p><b>Lecturer</b> 12 November 2023 to Present</p> <p>Department of Urban and Regional planning Chittagong University of Engineering and Technology (CUET), Chittagong, Bangladesh</p>
<b>Other Appointments</b>	<p><b>Research Assistant</b> 01 October 2023 to 01 November 2023</p> <p>Solidaridad Micro watershed Project, “Improving Water Management in Micro-Watersheds of Southwest Bangladesh through Physical Intervention and Community Participation” under Institute of Water and Flood Management (IWFM), BUET, Dhaka, Bangladesh.</p> <p><b>Intern</b> December, 2022 to January, 2023</p> <p>at Research Development &amp; Compliance of Sheltech Pvt. Ltd</p>
<b>Training Attended</b>	<ul style="list-style-type: none"> <li>○ “Satellite Data for Air Quality Environmental Justice and Equity Applications”, organized by NASA, at October 2023</li> <li>○ “Multi Hazard Physical and Social Impact Assessment”, organized by Dhaka University, Chittagong University of Engineering and Technology, Ardhi University, and Tomorrow’s Cities National and International Team, on 8-10 November 2023.</li> </ul>
<b>Workshop Attended</b>	<ul style="list-style-type: none"> <li>○ “Empowering the Next Generation: Climate Leadership Training for Youth”, organized by Save the Children and Young Power-in Social Action (YPSA), on 09-10 May 2023.</li> </ul>

- “Workshop on Subdivision Planning and Neighborhood Design”, organized by Department of Urban and Regional Planning, CUET, on 10 December 2023

<b>Computer Skills</b>	<ul style="list-style-type: none"> <li>○ MS office package- MS Word, MS Excel, MS Power Point, MS Project.</li> <li>○ Presentation Graphics: CorelDraw, Adobe Photoshop, Adobe Illustrator</li> <li>○ Application Software: GIS &amp; RS - ArcGIS Online, ArcGIS Pro, ArcMap, Edras Imagine, ENVI, SNAP;</li> <li>○ Graphics - AutoCAD, Autodesk Map, Space Syntax;</li> <li>○ Statistics - SPSS, Past, R;</li> <li>○ Google Earth Engine</li> </ul>
------------------------	--

**Courses & Certifications:** (Non-credit specialization & skill development course)

Course Name	Authorized by	Course Duration	Secured Grade
Specialization on GIS, Mapping, and Spatial Analysis	University of Toronto	6 months	98.72%
Fundamentals of Project Planning and Management	University of Virginia	9 hours	90%
Understanding Research Methods	University of London	5 hours	100%
Introduction to Sustainability	University of Illinois at Urbana-Champaign	25 hours	92.69%
Initiating and Planning Projects	University of California, Irvine	7 hours	95.40%
Project Management Project	University of California	6 hours	95.83%
Introduction to Data Analysis Using Excel	Rice University	24 hours	95%
Programming for Everybody (Getting Started with Python)	University of Michigan	19 hours	99.17%
Smart Cities Management of Smart Urban Infrastructures	Ecole Polytechnique Fédérale de Lausanne	12 hours	91.33%
Python Data Structures	University of Michigan	19 hours	100%
Urban Nature: Connecting Cities, Nature and Innovation	Lund University	13 hours	92%
Disaster Preparedness	University of Pittsburgh	13 hours	100%
Global Environmental Management	Technical University of Denmark (DTU)	10 hours	96.79%
Water Resources Management and Policy	University of Geneva	10 hours	89.36%
Qualitative Research Methods	University of Amsterdam	23 hours	94.25%
Regression Models	Johns Hopkins University	53 hours	97.85%
A Crash Course in Data Science	Johns Hopkins University	7 hours	100%
Municipal Solid Waste Management in Developing Countries	Ecole Polytechnique Fédérale de Lausanne	22 hours	88.25%
Managing Project Risks and Changes	University of California, Irvine	5 hours	92.16%
Cities and Consumption: Urban Sustainability and the Sharing Economy	Lund University	14 hours	92%
Introduction to Big Data	University of California San Diego	3 Weeks	97.26%
Graph Analytics for Big Data	University of California San Diego	13 hours	97.78%
Big Data Integration and Processing	University of California San Diego	6 Weeks	97.55%
Big Data Modeling and Management Systems	University of California San Diego	6 Weeks	97.40%
Managing Employee Performance	University of Minnesota	4 Weeks	98.50%
Preparing to Manage Human Resources	University of Minnesota	4 Weeks	94.58%
Strategic Management	Copenhagen Business School	10 hours	94.50%
Urban Nature: Connecting Cities, Sustainability and Innovation	Lund University	13 hours	92%

Cities and Consumption: Urban Sustainability and the Sharing Economy	Lund University	14 hours	92%
Fundamentals of Management	University of California, Irvine	6 hours	98.52%
Leadership and Emotional Intelligence	Indian School of Business	13 hours	90%
IT Project Management	Indian School of Business	11 hours	100%
Effective Problem-Solving and Decision-Making	University of California, Irvine	8 hours	100%
Basic Statistics	University of Amsterdam	8 Weeks	94.38%
Creative Thinking: Techniques and Tools for Success	Imperial College London	19 hours	89.08%
Management Skills for International Business	University of London	18 hours	98.56%

**Extra**

**Curricular  
Activities**

- Member, CUET Teachers Association (2023-Present)
  - Volunteer, UNHCR's Student Supporter Network (2022)
  - Campus Ambassador, Plexus 2.0 (2020-2022)
  - Member, CUET Debating Society (2018-2023)
-