Curriculum vitae

Dr. Masudul Alam

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Google scholar: https://scholar.google.com/citations?user=eOuVw2cAAAAJ&hl=en

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Research Interests

- Climate change adaptation and resilience
- Environmental vulnerability and livelihood security
- Sustainable development
- Coastal communities and climate impacts
- Community-based adaptation
- Participatory research and policy communication
- Flood risk assessment
- Geospatial analysis and remote sensing applications

Education

PhD (2025)

Department of Development and Sustainability

School of Environment, Resources and Development

Asian Institute of Technology (AIT), Klong Luang, Pathum Thani, 12120, Thailand

Doctoral Dissertation: "Impacts of Salinity Intrusion on Rural Livelihoods and Adaptation Strategies in the Southern Regions of Bangladesh: An Assessment"

M.Sc. in Environmental Science (2019)

Stamford University Bangladesh

CGPA: 3.96/4.00

M.A in English (2007)

National University, Bangladesh

B.A. (Hons) in English (2006)

National University, Bangladesh

Research Experience

- Climate Change Adaptation and Livelihood Resilience Research
- Conducted interdisciplinary research examining the impacts of salinity intrusion on rural livelihoods in coastal Bangladesh.
- Investigated livelihood vulnerability, adaptation strategies, and community resilience under changing environmental conditions.
- Applied mixed-method research approaches including household surveys, interviews, statistical analysis, and geospatial techniques.
- Developed research outputs addressing climate adaptation policies and sustainable development.

Peer-Reviewed Publications

1. Rahman, M. Z., Sony, M., Hossen Rubel, M. S., Alam, M., & Liza, R. A. (2020). Steps toward Smooth Graduation of Bangladesh from Least Development Countries. *Journal of Contemporary Research in Social Sciences*, 2(3), 57-67. https://doi.org/10.33094/26410249.2020.23.57.67

2. Alam, M., Hossain, S., Elahi, M.E. (2020). Solid Waste Management System of Dhaka North City Corporation and Process Development for Healthy Environment: A Case Study. *International Journal of Scientific Research and Reviews*, 9(4). http://ijsrr.org/pdf/93123.pdf

3. Alam, M., Ahmad, M. M., Tsusaka, T. W., & Pramanik, M. (2025). Awareness of impacts of salinity intrusion on livelihoods: Evidence from southern coastal rural areas of Bangladesh. *Current Research in Environmental Sustainability*, 9, 100293. https://doi.org/10.1016/j.crsust.2025.100293

4. Alam, M., Ahmad, M. M., Tsusaka, T. W., & Pramanik, M. (2025). Assessing the effectiveness of adaptation strategies for salinity impacts: evidence from the southern coastal regions of Bangladesh. *International Journal of River Basin Management*, 1-10. https://doi.org/10.1080/15715124.2025.2578008

5. Alam, M., Ahmad, M. M., Tsusaka, T. W., & Pramanik, M. (2025). Impacts of Salinity Intrusion on Livelihood Assets: Evidence from the Southern Regions of Bangladesh. *Environmental and Sustainability Indicators, 29, 101113*. https://doi.org/10.1016/j.indic.2025.101113

6. Alam, M., Ahmad, M. M., Tsusaka, T. W., & Pramanik, M. (2026). Local livelihood assets and their diversification under different levels of salinity intrusion in coastal Bangladesh: A comparative assessment. Current Research in Environmental Sustainability, 11, 100341. https://doi.org/10.1016/j.crsust.2026.100341

7. Bakebillah, Md., Alam, M., Ahmad, M. M., Pramanik, M., Fahim, M. U., & Hosen, M. S. (2026). Tracing COVID-19 impacts and recovery experiences among traditional

Malakar craft makers in Naogaon District, Bangladesh. Development in Practice, 1-16. https://doi.org/10.1080/09614524.2026.2673145

Journal Peer Reviewer

Reviewed manuscripts for international peer-reviewed journals including:

- Environmental Challenges
- Asian Journal of Ethnobiology
- Journal of Hazards, Risk and Resilience (JHRR)

Professional Experience

Deputy Director | 2012—Present

Directorate of Government Accommodation, Ministry of Housing and Public Works, Bangladesh Secretariat, Dhaka. Government of the People's Republic of Bangladesh. (https://doga.gov.bd/site/view/officer_list)

Responsibilities:

- Monitor and regulate housing and urban development in Dhaka city.
- Raised awareness of environmental issues and strengthen human resources capacity for climate change adaptation through training courses, seminars, and workshops.

Lecturer in English | November 2010—January 2012
Z.U Alim Madrasha (Higher Secondary level) Haluaghat, Mymensingh, Bangladesh.

Responsibilities:

- Delivered higher secondary level teaching.
- Developed course materials and conducted academic assessments.

Health Assistant | April 2010—October 2010
Directorate General of Health Services. Ministry of Health and Family Welfare, Bangladesh

Responsibilities:

- Delivered vaccination and public health services.
- Participated in national immunization campaigns.

Skills

Research tools	**:**	SPSS, R (Analytical Software), Python.
Special skills	**:**	GIS & Spatial Analysis: PLUS LULC Simulation, LULC Change Analysis, RUSLE-Based Soil Loss Modeling, SHAP Theory, UHII Analysis, Coastal Flood Risk Assessment, Groundwater monitoring, Advanced GIS Project Management and Reporting

Google Earth Engine: Advanced Data visualization and Statistics; Digital Elevation Model (DEM) Analysis; Time-series analysis, Drought monitoring VCI, TCI, VHI, Soil Salinity Indices, Root zone Soil Moisture Mapping, LST, UHI, UTFVI Mapping.

GeoAI (Geospatial Artificial Intelligence): AI-driven Spatial Analysis, Remote Sensing Analytics, Geospatial Modeling, and Predictive Analytics.

Teaching Experience

- Environmental science and sustainability-related teaching experience through academic and professional training activities.
- Lecturer in English at higher secondary level.

Awards/Certification:

Certificate of Distinction in the Essay writing competition at National Education week organized by the Ministry of education.

References:

1. **Mokbul Morshed Ahmad, PhD.**
   Professor,
   Development Planning Management and Innovation (DPMI),
   Department of Development and Sustainability,
   Asian Institute of Technology, Thailand
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   Natural Resources Management
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3. **Dr. Md. Sahadat Hossain**
   Assistant Specialist in Biomass and Bioenergy,
   University of California.
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