

# Curriculum Vitae



## Personal Information

### Sanjida Aktar

**Specialization: Environmental Science**

**PhD research fellow in University of Western Australia**

Assistant Professor

Department of Environmental Science

Faculty of Environmental Science and Disaster Management

Patuakhali Science and Technology University

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## Professional experience

Currently, I am working as an Assistant Professor in the department of Environmental Science in Patuakhali Science and Technology University, Bangladesh and supervise internship students. Besides, I am interested in conducting research in the basic field of Environmental Science including Climate change and adaptation, Soil and Water systems management, Environmental pollution, and Ecosystems Conservation.

## Academic Qualification

|                              |   |
|------------------------------|---|
| <b>Graduate Program</b>      | <b>Master of Science (MSc) in Environmental Science;</b> Duration: 1.5 Years<br>Environmental Science Discipline, Khulna University, Bangladesh<br><b>Result:</b> CGPA 3.72 (scale of 4.00)<br><b>Thesis:</b> Disaster Risk Reduction Intervention through Infrastructure Rehabilitation in South-West Bangladesh |
| <b>Undergraduate Program</b> | <b>Bachelor of Science (BSc) in Environmental Science;</b> Duration: 4 Years<br>Environmental Science Discipline, Khulna University, Bangladesh<br><b>Result:</b> CGPA 3.69 (scale of 4.00)<br><b>Thesis:</b> Water Supply and Sanitation system in disregarded slum area of Khulna City Corporation, Bangladesh. |

## Employment History

- a. **Assistant Professor (2020 to Date)**- Department of Environmental Science, Faculty of Environmental Science and Disaster Management, Patuakhali Science and Technology University, Dumki-8602, Bangladesh
- b. **Lecturer (2018 to 2020)**- Department of Environmental Science, Faculty of Environmental Science and Disaster Management, Patuakhali Science and Technology University, Dumki-8602, Bangladesh

## Teaching Responsibilities

Conducting lectures on the basis of Environmental Science in Climate change processes and impacts, Watershed Science and Management, Integrated Coastal Resource Management, Fundamentals of Natural Resource Management, Soil erosion and Land Degradation, Environmental Impact Assessment, Environmental Microbiology, Oceanography, Ecological perspective in terrestrial ecosystems, and Environmental Considerations in Landscape Design at Patuakhali Science and Technology University (**medium of instruction is in English**).

## Research Interest

Research interests are focused on Microbial diversity, Climate Change, Antimicrobial resistance in a changing environment, Soil and ecosystem conservation, and Environmental Pollution and toxicity of heavy metals.

## Laboratory and Field Research Experience (area of experience and duration)

1. Research on organic matter and mineral interactions on arsenic bioavailability in different soil systems of Bangladesh is conducted in Agronomy Lab of Patuakhali Science and Technology University, Bangladesh.
2. Under graduation Research experience on poor Water supply and sanitation system effects in disregarded slum area of Khulna City Corporation, Khulna, Bangladesh.
3. Post-graduation Research on Disaster Risk Reduction Intervention for reducing the damages of natural disaster in South-West coastal Bangladesh
4. Instruments Operation: Spectrophotometer, Centrifugger, Incubator, TOC analyzer, pH meter, Water bath, Homogenizer, BOD track apparatus and field kits as well as different software (SigmaPlot, GIS, R, Strata, and SPSS) for environmental data analysis.

## Publication

### Book Chapter Published

1. Disaster Resilient Rescue of Coastal Community on Cyclone Warning. Natural Hazards - Impacts, Adjustments & Resilience. DOI: <http://dx.doi.org/10.5772/intechopen.94315>
2. Conversion of Organic Waste to Economically Valuable Products: Recent Advancements with Challenges. Biotechnological Approaches in Waste Management, ISBN 9781032036298, November 14, 2022 by CRC Press. DOI: [10.1201/9781003188292](https://doi.org/10.1201/9781003188292)

### Published Research Article in Peer-reviewed Journals

- a. Haque, F., Aktar, S., and Ghosh, P. K., 2015. **Evaluation of Water Supply and Sanitation Conditions in the Slums of Khulna City Corporation of Bangladesh.** South Asian Journal of Agriculture 6(1&2): 155-160, ISSN1991-0037
- b. Aktar, S., and Rahman, M. Md., 2019. **Infrastructure Rehabilitation Intervention for Reducing Natural Disaster Damages in the South-West Coastal Bangladesh.** International Journal of Research in Social Sciences, 9 (8): 290-298, ISSN: 2249-2496
- c. Shahin, Md., Aktar, S., and Paul, N., 2019. **Characterization of Municipal Solid Waste: A Case Study in Patuakhali City.** Journal of Waste Management and Disposal 2 (3): 1-12, ISSN: 2641-8827
- d. Sattar, Md. A., Biswas, AKM. A. A., Islam, Md. T., Hossain, Md. A., Siddeqa, M., Rahim, Md. A., Amin, Md. N., Touhiduzzaman, Md., Rahman, Md. A., Aktar, S. 2020. **Disaster vulnerability and mitigation of humanitarian issues in coastal Bangladesh: Local evidence and knowledge gaps.** Journal of Progress in Disaster Science, Volume 8, December 2020, 100138. <https://doi.org/10.1016/j.pdisas.2020.100138>
- e. Shahin, Md., Khanam, M., Aktar, S., Siddiqua, A., and Sharif, N., 2022. **Resiliency of livelihood and empowerment of women: Results of a cash-based intervention in Bangladesh's Lalmonirhat District.** International Journal of Disaster Risk Reduction, Volume 79, September 2022, 103137. <https://doi.org/10.1016/j.ijdrr.2022.103137>
- f. Aktar, S., Mia, S., Makino, T., Rahman, M. M., and Rajapaksha, A. U. 2023. **Arsenic removal from aqueous solution: A comprehensive synthesis with meta-data.** Science of the Total Environment. <http://dx.doi.org/10.1016/j.scitotenv.2022.160821>
- g. Aktar, S., Hossain, Md. T., Sheikh, N., Redwan, F., Billah, Md. M., Sheikh, S., Rahman, Md. H., Nahar, K., Siddiqua, A., and Nur, M. N. B. 2024. **Risk Perceptions and Vulnerability Assessment: Induced from Tropical Cyclone in the Southern Part of Coastal Bangladesh.** Journal of Agroforestry and Environment, Volume 17, Issue 1, 36-49. <https://doi.org/10.55706/jae1707>
- h. Nur, M. N. B., Aktar, S., Setu, S. H. and Rahim, M. A. 2024. **Analyzing the socio-economic impacts of salinity intrusion in a coastal union of Bangladesh.** Journal of Science, Technology and Environment Informatics, Volume 13, Issue 1, 850-863. <https://doi.org/10.18801/jstei.130124.85>

- i. Ahmed, M.R., Mia, S., Sattar, M.A., Masud, M.M., Alam, S.M.M., Akter, S., Mia, M.S., **Aktar, S. (2025). Chemical modification of biochar's functional groups enhances phosphate and arsenite adsorption.** Sains Tanah Journal of Soil Science and Agroclimatology, 22(1), 203-219. <https://doi.org/10.20961/stjssa.v22i1.9255>

## Awards & Recognition

1. Certificate of Outstanding Paper in 2019 Published in the International Journal of Multidisciplinary Research Academy "Infrastructure Rehabilitation Intervention for Reducing Natural Disaster Damages in the South-West Coastal Bangladesh, International Journal of Research in Social Sciences, 9 (8), ISSN: 2249-2496; Impact Factor: 7.081 Journal Homepage: <http://www.ijmra.us>
2. Certificate of participation from Pilot Training Program on Disaster Management (PTP-DM) Jointly organized by Patuakhali Science and Technology University (PSTU), Bangladesh University of Engineering and Technology (BUET), Japan International Cooperation Agency (JICA), Japan Science and Technology Agency (JST) and Kyoto University, Japan
3. Participation Certificate on "Teaching-Learning in higher education" conducted by Institutional Quality Assurance Cell (IQAC) of Patuakhali Science and Technology University
4. Certificate of completion in a 2 day long training on "Training on Emergency Water Supply-Operation S Maintenance" organized by OXFAM
5. Participation Certificate on Online Course "Climate Information Services for Adaptive Delta Management" organized by Delta Center, IHE Delft Netherlands, Delta Alliance and Wageningen University and Research
6. Certificate of Achievement on "Food Security and Sustainability-Crop Production" a course of study offered by WageningenX, an online learning initiative of Wageningen University and Research
7. Certificate on the participation of "Geographic Information System" organized by International Association of Students in Agricultural and Related Sciences, from June 08 to June, 16, 2021.
8. Certificate on the participation of five-day training program "Data Analysis Using R Program" organized by Institutional Quality Assurance Cell (IQAC), Patuakhali Science and Technology University, Dumki, Patuakhali, 8602, Bangladesh, from May 15 to June, 26, 2024.
9. University Grants Commission Scholarship for MSc program from 2015-2017.

## Personal Skills

|                   |   |         |         |          |         |
|-------------------|---|---------|---------|----------|---------|
| Mother tongue(s)  | Bengali   |         |         |          |         |
| Other language(s) | English (IELTS)   |         |         |          |         |
|                   | Listening   | Reading | Writing | Speaking | Overall |
|                   | 6.5   | 7.0     | 6.0     | 6.5      | 6.5     |
| Voluntary skills  | <ul style="list-style-type: none"><li>Actively involved in Female Club at Aparazita Hall of Khulna University</li><li>Actively engaged in Blood Donation Society of Khulna University</li></ul> |         |         |          |         |
| Computer skills   | Proficient in handling Microsoft Office Packages, Microsoft power point, Geographic Information System (GIS), Mendeley, Strata, SigmaPlot, R and SPSS   |         |         |          |         |

## Conference Presentation

Participated Conference with Presentation on “Socio-Economic Impacts of Riverbank Erosion; A Case Study in Patuakhali, Bangladesh” in International Seminar on Disaster Management and Community Resilience using Technological Interventions-2019, Jointly Organized by Department of Disaster Science and Management, University of Dhaka, Monash University, Protic and Oxfam in Bangladesh

## Online Course

### International

1. Climate Information Services for Adaptive Delta Management
2. Food Security and Sustainability - Crop Production
3. Geographic Information System, Organized by International Association of Students in Agricultural and Related Sciences (IAAS) with the joint collaboration of Bangladesh and Nepal from 8 to 16<sup>th</sup> June, 2021.

### National

1. Basic ArcGIS training for beginners and professionals, organized by Environmental Science and Disaster Management Faculty of Patuakhali Science and Technology University, Bangladesh from 1<sup>st</sup> November to 1<sup>st</sup> December, 2021.

## **Professional Training**

### **National**

- 1. Pilot Training Program on Disaster Management (PTP-DM)**, Research project on Disaster Prevention/Mitigation Measures against Floods and Storm Surges in Bangladesh, Jointly organized by Patuakhali Science and Technology University (PSTU), Bangladesh University of Engineering and Technology (BUET), Japan International Cooperation Agency (JICA), Japan Science and Technology Agency (JST) and Kyoto University, Japan during 04 September 2018 at Patuakhali Science and Technology University(PSTU), Dumki, Patuakhali, Bangladesh
- 2. Training Program on Teaching-Learning in Higher Education**, organized by Institutional Quality Assurance Cell (IQAC) of Patuakhali Science and Technology University during 17-29 April, 2019, Dumki, Patuakhali, Bangladesh
- 3. Training on Emergency Water Supply-Operation & Maintenance**, organized by OXFAM during 2-3 July, 2019, Barguna, Patuakhali, Bangladesh.

## References

**1) Dr. Zakaria Solaiman**

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**3) Professor Md. Nurul Amin, PhD**

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*I declared above the information provided is correct to the best of my knowledge and faith.*

Date: 15<sup>th</sup> October, 2025

Signature   
(Sanjida Aktar)