

Hamida Akter

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EDUCATION

Master of Science in Geosciences with a Certificate in GIS Georgia State University, USA; CGPA: 3.85/4.30	Aug 2023-Present
Master of Science in Environmental Sciences Jahangirnagar University, Bangladesh; CGPA: 3.76/4.00	2022-2023
Bachelor of Science in Environmental Sciences Jahangirnagar University, Bangladesh; CGPA: 3.69/4.00	2017-2020

WORK EXPERIENCE

Graduate Research Assistant- Department of Geosciences, Georgia State University (GSU)	Jun 2024-Present
<ul style="list-style-type: none">Collaborating with the South River Watershed Alliance and Chattahoochee River keeper to assess industrial storm water permit compliance in the South River Watershed, a heavily impacted area in metro Atlanta.Utilized EPA databases, NPDES permit lists, and GIS tools to identify facilities requiring permits and conduct key informant interviews with environmental experts. The study aimed to enhance regulatory compliance, support community advocacy efforts, and improve water quality while developing a replicable methodology for similar watersheds.	
Graduate Teaching Assistant- Department of Geosciences (GSU)	Aug 2023-Present
<ul style="list-style-type: none">Appointed as a teaching assistant for Introduction to Weather and Climate and Introduction to Landforms Lab for five semesters, supporting an average of 25 students.Organized in-person and online training sessions to guide students regarding given assignments as well as delivered assistance as an invigilator in multiple exams and accurately grading papers.	
Graduate Administrative Assistant- Department of Geosciences (GSU)	Oct 2023-Dec 2024
<ul style="list-style-type: none">Managed departmental communications, scheduling, and record-keeping to ensure efficient operations. Assisted faculty and students by addressing inquiries and coordinating resources.Supported event planning, including logistics and material preparation for workshops and meetings. Conducted research support tasks such as literature reviews and data analysis.	

RESEARCH EXPERIENCE

Research Assistant, Atomic Energy Research Establishment (AERE), Bangladesh Atomic Energy Commission	(Sep 2022 – Dec 2023)
<ul style="list-style-type: none">Under the supervision of Dr. Md Moniruzzaman Monir, Principal Geologist, Atomic Energy Research Establishment (AERE), Atomic Energy Commission, Dhaka on the study of radioisotopes in soil samples.	
Collective- learning as locally-led adaptation strategies for resilience building in informal urban settlements in the face of climate change.	(2020-2021)
<ul style="list-style-type: none">Small Grant Competition awarded by Gobeshona Global Conference 1 organized by ICCCAD. Funded by CJRF (Climate Justice Resilience Fund).Exploring Livability of Seasonal Migrants in Rupsha Slum of Khulna City, Bangladesh funded by ICCCAD and IHRR, Durham University UK (2021-2022)	

PUBLICATIONS & PRESENTATIONS

- **Akter, H.**, Curry, M., Sterling, J., Milligan, R. Systematic Approach to Investigating Industrial Stormwater Permits in the South River Watershed (Updated work). Poster presented at 3rd Annual Graduate Conference for Research Scholarship and Creative Activity, 2025, Georgia State University
- **Akter, H.**, Curry, M., Sterling, J., Milligan, R. Systematic Approach to Investigating Industrial Stormwater Permits in the South River Watershed. Poster presented at the Southeastern Division of the American Association of Geographers (SEDAAG) Annual Meeting, 2024, Greenville, South Carolina.
- **Akter et al.** (2023). Mitigation of Plastic Pollution in Sajek by Cassava-derived Bio-Plastic: A Review. Bangladesh Journal of Environmental Research. [Link](#)
- Newspaper article on “Waste: The one with waste recycling” at Dhaka Tribune. [Link](#)
- Rezwana, F., **Akter, H.**, Samad, M. A., Rahman, M. M. An Assessment of Physicochemical Properties and Microbial Count in Dairy Wastewater in Savar Area, Bangladesh. Eng. Proc. 2023, 31, 61. <https://doi.org/10.3390/ASEC2022-13855>. [Link](#)
- Rana, S.M.S.; Ahmed, S.M.F.; **Akter, H.** Analysis of NO₂ pollution over Bangladesh between the two covid-19 caused lockdown in 2020 and 2021 using Sentinel 5P products. Eng. Proc. 2021, 11, 30. <https://doi.org/10.3390/ASEC2021-11139>. [Link](#)
- Website article on “Waste is Wealth: The Untold Story of Esther” at Global Resilience Partnership. [Link](#)

MEMBERSHIP, AWARDS & ACHIEVEMENTS

- Sustainability Awardee at 3rd Annual Graduate Conference for Research Scholarship and Creative Activity, Georgia State University (Feb 2025)
- Members of Golden Key International Honour Society (2024-Present)
- National Science and Technology Fellow, Bangladesh (2022-2023)
- Jahangirnagar University Merit Scholar, Bangladesh (2017-2022)
- Nagao Natural Environmental Foundation (NEF) Scholar, Japan (2018-2022)

COMMUNITY SERVICE & VOLUNTEER WORKS

Team Lead at Grant Application Team and Research Team Member; Auritry Foundation
Apr 2022- Present

- Auritry, a small non-profit organization, is trying to address this devastating environmental issue involving plastics and fighting against this plastic pollution to create a better, greener Bangladesh.

Project coordinator at Talk Bangladesh Oct 2021- Dec 2022

- Talk Bangladesh is supporting unprivileged women and children through creating awareness about women’s rights.

President at Badhan, Nawab Faizunnesa Hall Unit, Jahangirnagar University Zone (A voluntary blood donating & managing organization). Jan 2020 – Dec 2021

- Badhan works for those people who badly need fresh blood. It's one of the best social jobs for helping people.

TECHNICAL SKILLS

Statistical Modeling Software: SPSS.

Software: MS Applications, Office 365, Google Suit, ArcGIS Pro, QGIS, Canva, etc.