



Rysul Hasan Hredoy

Environmental Researcher

Portfolio: <https://rysulhasan.github.io>

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SUMMARY

Euthanistic Environmental Researcher with 3+ years of experience in the field of environmental research and data analysis. Proven ability to lead and execute projects, evidenced by successfully managing US funded project "Campaign on the Potential of Solar Photovoltaics" and securing a National Research Fellowship. Skilled in GIS, data analysis, Machine learning, Python and field research, with publications including a peer-reviewed article in MDPI | Soil System. Q1, IF: 3.5.

EXPERIENCE

1. Currently working as **Research Officer**, (January 2023 to present)
[Bangladesh Environmental Lawyers Association](#)
 - ✓ Project: Campaign on the Potential of Solar Photovoltaics with special focus on Land Availability. A project funded by US Embassy. (completed)
 - Responsible for Planning, implementing and monitoring the research project.
 - Arranged and moderated all the divisional workshops and seminar.
 - Arranged national level dialogue and roundtable for the project
 - Quarterly progress reporting to the embassy.
 - Final report preparation of the project.
 - ✓ Assigned with other scientific research activities of BELA.
 - ✓ Responsible for all the GIS documents for PIL (Public Interest Litigation)
 - ✓ Field work and video documentation of environmental degradation.
 - ✓ Community Consultation, FGD, Drone survey and interviews.
2. Worked as a **Research Intern** for 6 months, (June 2022 to December 2022)
[Bangladesh Environmental Lawyers Association](#)
 - ✓ Tasked with environmental research and report writing (involved in 2 projects)
 - ✓ Evaluating GIS work for forest and wetland (Completed 5 projects)
 - ✓ Taking interviews and survey
3. Worked as a **Research Assistant** for 1 year, (July 2019 to June 2020)
under [Assistant Professor Alamgir Kabir](#),
Bangladesh University of Professionals (BUP)
Topic: *"Environmental and Anthropogenic Factors Influencing the Distribution and Abundance of Hilsa (Tenulosa Ilisha) – A Case Study of Andharmanik River, Bangladesh"*
 - ✓ Plan and executed the research project
 - ✓ Measured water quality parameter and collected samples from 9 locations
 - ✓ Conducted 60 survey over local people within 2 days.
 - ✓ Report writing and submitted for BUP FST journal.
4. Worked as a part time **Senior Instructor** for 4 years, (March 1, 2019 – January 31, 2023)
[Creative Academic Coaching, Dhaka](#)
 - ✓ Conducting Physics classes from class 9 to class 12.
 - ✓ Assessment of weekly exam.
5. **Fieldworks**
Performed multiple academic fieldworks in various region of the country
 - i. **Chittagong (Shitakunda):** Geo-physical structure observation and evaluation of their interactions in the ecosystems.

- ii. **Shundarban:** Study on mangrove ecosystem and soil science
- iii. **Khulna (Banishanta village):** Survey on socioeconomic status and adaptation strategies in extreme climatic conditions.
- iv. **Cox's Bazar:** Study on coastal environment and biodiversity.

6. Performed Academic Thesis,

Topic: “Investigation of the impacts of Landfill Leachate on the surrounding Environment: A case study on Amin Bazar Landfill, Dhaka” (Published in Soil system, MDPI)

Topic: “Optimizing Renewable Energy Generation: A GIS and Machine Learning Based Assessment of Solar Power Potential in Bangladesh” (Submitted for Publication)

PUBLICATION

Research Article

1. **Soil System** | MDPI | Q1, IF: 3.5
Hredoy, R. H., Siddique, M. A. B., Akbor, M. A., Shaikh, M. A. A., & Rahman, M. M. (2022). Impacts of landfill leachate on the surrounding environment: A case study on Amin Bazar Landfill, Dhaka (Bangladesh). *Soil Systems*, 6(4), 90.
<https://doi.org/10.3390/soilsystems6040090>

Newspaper Article

1. **The Daily Star** | World Environment Day 2024
 Bareesh Chowdhury and **Rysul Hasan**. *Forests in Bangladesh are disappearing when we need them most*. June 05, 2024. [Link](#)
2. **The Daily Star** | International Day of Clean Energy 2025
Rysul Hasan Hredoy, Bareesh Hasan Chowdhury. *The untapped potential for renewables on Dhaka rooftops*. Jan 26, 2025. [Link](#)

EDUCATION

MSc in Environmental Science Bangladesh University of Professionals (BUP) Result: CGPA-3.62 (On the scale of 4.00)	2022 - 2023
BSc in Environmental Science Bangladesh University of Professionals (BUP) Result: CGPA-3.55 (On the scale of 4.00)	2018 - 2021
HSC Science Major General Mahmudul Hasan Ideal Collage, Tangail Result: GPA-5.00 (On the scale of 5.00)	2016
SSC Science Bindubashini Govt. Boys' High School, Tangail Result: GPA-5.00 (On the scale of 5.00) - 1st Position for Quran Recitation Competition.	2014

PROFESSIONAL COURSE

Disaster Management and Environmental Safety (4 Months certification Course) University of Dhaka	2019
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TRAININGS

• Training on Geographic Information Systems and Drone for Forest Monitoring by Oxfam and JU	2025
• Training on M&E and Logical Framework	2025
• Training on Water and Environment by BELA and BIWTA	2023
• Training on Sustainability by BELA	2023

- Attended COP28 at Dubai, UAE **2023**
- Workshop on Child film making **2010**

ACHIEVEMENTS

National Research Fellowship

National Science and Technology Fellowship for MS (sl no. 1082)

2022 - 2023

1st Place on Project Competition

Nature Fest 2018 (NCI)

[Jahangirnagar University](#)

Topic: "Impact of GMO food in Environment and its sustainable solution."

- ✓ Developed a Project Model to reduce the impact of GMO food.
- ✓ Teamwork.

EXTRA-CURRICULAR ACTIVITIES

Vice President,

[Environmental Club of BUP,](#)

Bangladesh University of Professionals, Dhaka

March 2021 – May 2022

- ✓ Organized 4 Club events and 2 online webinars.
- ✓ Planning and work distribution of club events.
- ✓ Communication and teamwork management.

SKILLS

Leadership and Teamwork

Leading "Solar Photovoltaics" campaign at BELA, managing workshops & dialogue, executing research projects collaboratively, including Hilsa study & field work, supervising club activities and project competitions has given me the confidence of having skill in motivation, coordination, & resolving conflicts.

Software skills

ArcGIS, QGIS, Google Earth Engine, Machine Learning model (Python), IMB SPSS, Google suite, Adobe Photoshop, Sketchup3D designing, Adobe Premier Pro, Basic Programming (C), WordPress web designing and Microsoft office (Word, PowerPoint, Excel).

Interpersonal Skill

My field work and seminar experience in different places in Bangladesh and abroad helped me to learn how to deal with different environmental situations and communicate with the people of various culture.

LANGUAGE PROFICIENCY

Bengali: Native	English: Advanced	German: (Academic Course)
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REFERENCES

Firozul Islam Milon

Head of Program

Bangladesh Environmental Lawyers Association
(BELA), Dhanmondi R/A, Dhaka

E-mail: firozul@belabangla.org

firozulislam@gmail.com

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Dr. Md. Mostafizur Rahman

Professor

Department of Environmental Sciences

Jahangirnagar University, Dhaka

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Relation: Thesis Supervisor