



PERSONAL PROFILE


NAME: MD. SHAHARIAR JAMAN, Ph.D.



 **Office:** Department of Agroforestry and Environmental Science,
Sher-e-Bangla Agricultural University, Dhaka-1207,
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Date of birth: 19 Nov 1989; **Nationality:** Bangladeshi; **Sex:** Male

Religion: Islam

 <https://scholar.google.com/citations?user=mT6SFQkAAAAJ&hl>

 <https://www.researchgate.net/profile/Md-Shahariar-Jaman>

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EDUCATION

- | | |
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| Sep 2018- Jun 2022 | Doctor of Philosophy (Ph.D.)
Institute of Agricultural Resources and Regional Planning,
Graduate School of Chinese Academy of Agricultural
Science (GSCAAS), Beijing 100081, China.
Major: Agroecology
Dissertation: Effects of Extreme Drought on Carbon Dynamics in Six
Grasslands along Natural Aridity Gradient
Mentor: Professor Dr. Yu Qiang |
| Dec 2012-Dec 2014 | Master of Science (M.S)
Sher-e-Bangla Agricultural University, Dhaka-1207,
Bangladesh.
Major: Agroforestry and Environmental Science
Dissertation: Carbon Stock Quantification and Tree Diversity
Assessment of Homegardens in Rangpur District, Bangladesh
Mentor: Professor Dr. Md. Forhad Hossain |
| Jan 2008- Nov 2011 | Bachelor of Science (B.Sc.)
Sher-e-Bangla Agricultural University, Dhaka-1207,
Bangladesh.
Major: Agriculture |

WORK EXPERIENCE

- 2023- Present **Chairperson**
Department of Agroforestry and Environmental Science,
Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh
- 2021-Present **Associate Professor**
Department of Agroforestry and Environmental Science,
Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh
- 2016 – 2021 **Assistant Professor**
Department of Agroforestry and Environmental Science,
Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh
- 2014 – 2016 **Lecturer**
Department of Agroforestry and Environmental Science,
Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh
- 04/2022- 08/2023 **Assistant Provost, Sher-e-Bangla Hall**
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RESEARCH INTEREST

■ Carbon dynamics ■ Soil ecology and soil nutrient ■ Vegetation and environmental change ■ Ecosystem ecology and biodiversity ■ Extreme climate ■ Grassland ecology

COURSE TAUGHT

- Agroforestry ■ Research Methodology ■ Social Forestry
■ Urban Forestry ■ Issues of Environment and Conservation

RESEARCH GRANT

2015 – 2016 □ 80000 BDT
Funding Agency: Ministry of Science and Technology, Bangladesh
Role: Principal Investigator (PI)
Project status: Completed

2017 – 2018 □ 90000 BDT

Funding Agency: Ministry of Science and Technology, Bangladesh

Role: Principal Investigator (PI)

Project status: Completed

2017 – 2018 □ 70000 BDT

Funding Agency: Sher-e- Bangla Agricultural University Research System

Role: Principal Investigator (PI)

Project status: Completed

2017 – 2018 □ 300000 BDT

Funding Agency: Ministry of Science and Technology, Bangladesh

Role: Associate Investigator (AI)

Project status: Completed

2022 – 2023 □ 150000 BDT

Funding Agency: Sher-e-Bangla Agricultural University Research System

Role: Principal Investigator (PI)

Project status: completed

2022 – 2023 □ 200000 BDT

Funding Agency: Ministry of Science and Technology, Bangladesh

Role: Principal Investigator (PI)

Project status: completed

2023-2024 □ 300000 BDT

Funding Agency: Ministry of Science and Technology, Bangladesh

Role: Principal Investigator (PI)

Project status: On-going

2023 – 2024 □ 175000 Taka

Funding Agency: Sher-e-Bangla Agricultural University Research System

Role: Principal Investigator (PI)

Project status: On-going

2022 – 2023 □ 300000 BDT

Funding Agency: University Grant Commission (UGC)

Role: Principal Investigator (PI)

Project status: On-going

AWARD

- Chinese Government Bilateral Scholarship (CGS) for pursuing PhD at Institute of Agricultural Resources and Regional Planning (IARRP), The graduate school of the Chinese Academy of Agricultural Sciences (GSCAAS), Beijing, China, from 2018-2021.

- National Science and Technology (NST) Fellowship (2013-14), Ministry of Science and Technology, Bangladesh.
 - Deans award for academic performance
 - Best paper presentation Award-Annual Botanical Conference 2022, organized by Botanical Society of Bangladesh
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CONFERENCE/WORKSHOP/SEMINER PARTICIPATION

- Forestry and agroforestry review workshop held a Dhaka, Bangladesh, December, 2016
- Assessment of Plant Structure and Composition in Dhaka: A Rapidly Developed Urban City of Bangladesh held at Colombo, Sri Lanka, 15 - 16 February 2018.
- Extreme drought weakens the stabilizing effects of diversity in native grasslands, held at Beijing, 24 October, 2018.
- Long term ecological research at Ceder Creek, Minnesota, USA held at Beijing, China, 01 July 2019
- Biogeochemical cycle of C and nutrients in terrestrial ecosystems held at Beijing, China, 4 November, 2019.
- Extreme Drought in Grasslands Experiment (EDGE) and Nutrient Network (NutNet) Workshop held at Beijing, China, November, 20
- Impacts of extreme drought on soil C and N mineralization in grassland ecosystem held at Beijing, China, 15 April, 2021.
- Annual Botanical Conference 30-31 March 2022, organized by the Botanical Society of Bangladesh at the University of the Rajshahi, Bangladesh.
- Invited speaker in EcoSummit organized by Elsevier on 13-17 June 2023 at Gold Coast, Australia.

DEGREE ORIENTED EXPERIENCE

- Songita Roy – Master’s co-supervisor (Completed)
- Ishrat Jahan – Master’s co-supervisor (Completed)
- Sumaiya Akter – Master’s supervisor (On going)

- Naznin Parvin – Master’s supervisor (On going)
- Jannatul Ferdous – Master’s supervisor (On going)
- Fahmida Sadia – Master’s supervisor (On going)
- Ayesha Tamanna – Master’s supervisor (On going)
- Halima Akter – Master’s supervisor (On going)
- Jannat Ferdous – Master’s supervisor (On going)
- Tasnia Alam – Master’s supervisor (On going)
- Maruf Ahmed – Master’s supervisor (On going)
- Abutaleb Limon – Master’s supervisor (On going)
- Hasim Reza Hamin – Master’s supervisor (On going)

UNDERGRADUATE RESEARCH ASSISTANT

- Shuvro Mahato – (Level 4, Semester I)
- Sanjida Prokriti – (Level 4, Semester I)
- Sagoti Islam – (Level 4, Semester I)

GRADUATE RESEARCH ASSISTANT

- Kazi Md Abuu Sayed - Master’s in Environmental Science and Management

TECHNICAL EXPERIENCE

■ REVIEWER

1. Small-scale Forestry (Springer)
2. Resources, Environment and Sustainability (Elsevier)
3. Agriculture, Ecosystems and Environment (Elsevier)
4. Journal of Forestry Research (Springer)
5. Archive of Agronomy and Soil Science (Taylor and Francis)
6. South African Journal of Botany (Elsevier)
7. Catena (Elsevier)
8. Environment and Experimental Botany (Elsevier)
9. Agroforestry System (Springer)

■ EDITORIAL EXPERIENCE

Topic Editors- Frontiers in Microbiology

■ PROFESSIONAL MEMBERSHIP

1. Member of the Bangladesh Society of Environment
2. Member of the Agriculturist Association of Bangladesh
3. Sher-e-Bangla Agricultural University Alumni Association
4. Society for Ecological Restoration, USA

■ COMPUTER PROFICIENCY

R programming for statistical data analysis

JOURNAL ARTICLES

1. **M.S. Jaman***, Z. Xiang, M. Jamil, M. F. Rabbee, F. Islam. (2024). Competitiveness of native and exotic tree species influenced by water and nitrogen addition. (*In preparation*).
2. N. Parvin, K. M. A. Sayeed, **M.S. Jaman***, S. Akter, M. Hossain, M. Jamil, M. F. Rabbee, F. Islam, S. Das, M.G.J. Helal, M. S. Islam, X. Zhang, P. Pongsivapai, M.U. Husen, M. Tamanna. (2024). Plant diversity enhances soil organic carbon content in mixed stands more than single stands in the urban vegetation of Dhaka, Bangladesh. *Ecological Frontiers*. 1-12.
3. R. A. A. Khan, S. S. Alam, **M. S. Jaman**, Y. Li, M. Ahmed. (2024). Editorial: Biocontrol of phytopathogens-recent progress for improvement in efficacy and understanding action mechanism. *Frontiers in Microbiology*. 15: 1-2. (IF 4.0)
4. **M.S. Jaman**, Q. Yu, C. Xu, M. Jamil, Y. Ke, T. Yang, A. Knapp, K. Wilkins, S. Collins, R. J. Griffin-Nolan, Y. Luo, W. Luo and H. Wu. (2024). Chronic drought decreased organic carbon content in topsoil greater than intense drought across grasslands in Northern China. *Geoderma*. 443: 116832 (IF- 6.1)

5. **M.S. Jaman**, H. Wu, Q. Yu, Q. Tan, Y. Zhang, Q.K. Dam, T.O. Muraina, C. Xu, M. Jing, X. Jia, J. Wang, N. He, W. Luo, A. Knapp, K. Wilkins, S. Collins and Y. Luo. (2021). Contrasting Above and Belowground Biomass Carbon Responses to Extreme Drought in Six Grasslands Spanning an Aridity Gradient. *Plant and Soil*. **473**: 167–180. (IF- 4.9)
6. T.O. Muraina, C. Xu, Q. Yu, Y. Yang, M. Jing X. Jia, **M.S. Jaman**, Q.K. Dam, A.K. Knapp, S.L. Collins, Y. Luo, W. Luo, X. Zuo, X. Xin, X. Han and M.D. Smith. (2020). Species asynchrony stabilises productivity under extreme drought across Northern China grasslands. *Journal of Ecology*. **109** (4): 1665-1675. (IF- 6.7)
7. **M.S. Jaman***, T.O. Muraina, Q.K. Dam, Z. Xiang, M. Jamil, S. Bhattarai and F. Islam. (2021). Effects of single and mixed plant types on soil carbon and nitrogen dynamics in homestead agroforestry systems in Northern Bangladesh. *Agriculture, Ecosystems & Environment*. **315**:1-11. (IF- 6.5)
8. **M.S. Jaman***, Z. Xiang and F. Islam. (2020). Carbon storage and tree diversity in the urban vegetation of Dhaka city, Bangladesh: a study based on intensive field investigation. *Arboriculture Journal*. **42**:76-92. (IF- 0.34)
9. P.C. Das, M. M. Billah, A.A. Lithi, **M.S. Jaman**, and F. Islam. (2019). Effect of Construction Work on Adjacent Surface Water Quality in Coastal Dacope Upazila Bangladesh. *Bangladesh Journal of Environmental Science*. **37**: 9-12.
10. T. Sultana, K.U. Ahmed, N. Naher, M.S Islam and **M.S. Jaman**. (2018). Growth and yield response of some rice genotype under different duration of complete submergence. *Journal of Agriculture and Ecology Research International*. **15** (1): 1-11.
11. T. Sultana, K.U. Ahmed, N. Naher, M.S Islam and **M.S. Jaman**. (2018). Effect of waterlogging stress at seedling stage on morphological and yield attributes of rice varieties. *International Journal of Agricultural and Environmental Research*. **4**(1):9-16.
12. **M.S. Jaman***, I. Jahan, M. Jamil and M.F. Hossain. (2017). Structure and Composition of Plant across Different Urban Land Vegetation in Dhaka South City, Bangladesh. *Journal of Agriculture and Ecology Research International*. **13**(4): 1-14.

13. **M.S. Jaman***, M.F. Hossain, M.S. Islam, M.G.J. Helal, M. Jamil and M.M. Rahman. (2016). Quantification of Carbon Stock and Tree Diversity of Homegardens in Rangpur District, Bangladesh. *International Journal of Agriculture and Forestry*. **6**(5): 169-180.
14. **M.S. Jaman***, M.S. Islam, M. Jamil and M.F. Hossain. (2016). Soil Organic Carbon and Tree Density in Homegardens of Rangpur District, Bangladesh. *International Journal of Plant and soil Science*. **13**(4):1-10.
15. **M.S. Jaman**, A. Islam, M.M. Islam, M.T. Islam and F. Islam. (2015). A Recent Plant Biodiversity Phenomenon of National Madhupur Forest in Bangladesh. *Bangladesh Journal of Environmental Science*. **29**: 147-156.
16. M.G.J. Helal, **M.S. Jaman**, M.M. Islam, M.T. Islam and F. Islam. (2015). Environmental inceptions of water management Organizations of Mymensingh district. *Bangladesh Journal of Environmental Science*. **29**: 157-162.
17. M.F. Haque, M.J. Miah, H. Akter, **M.S. Jaman** and F. Islam. (2015). Social and Women Aspects in Faridpur District of Bangladesh. *Bangladesh Journal of Environmental Science*. **29**: 97-104.

(* Corresponding author)



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