

Curriculum Vitae

RAFEE SHAHRIER

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[ResearchGate](#)

EDUCATION

Bangladesh Agricultural University, Mymensingh

MS in Agricultural Statistics

April 2023 – January 2025

CGPA: 3.89 out of 4.00

Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur

BS in Agricultural Economics

December 2017 – January 2023

CGPA: 3.85 out of 4.00

Rank: 2nd out of 86

RESEARCH INTEREST

- Bioinformatics
- Time Series Analysis
- Multivariate Analysis
- Machine Learning Application

PROFESSIONAL EXPERIENCE

Lecturer

Department of Agricultural Statistics, Sher-e-Bangla Agricultural University

January 2026 – Present

- Conducting courses on Statistics
- Supervising undergraduate thesis students

Lecturer

Department of Statistics, EXIM Bank Agricultural University Bangladesh

June 2025 – December 2025

- Conducting courses on Statistics and Economics
- Supervising undergraduate thesis students

Research Associate

Department of Rural Sociology, Bangladesh Agricultural University

November 2024 – June 2025

- Socio-economic impact assessment
- Data collection, analysis, and report writing

Research Assistant

*Department of Agricultural and Applied Statistics,
Bangladesh Agricultural University*

April 2023 – October 2024

- Differential gene expression analysis
- Multivariate analysis using statistical and machine learning models

Intern

Statistics Division, Bangladesh Rice Research Institute (BRRI)

October 2022– December 2022

- Climatic and non-climatic impact assessment on Boro rice
- Data processing, econometric analysis, and report writing

PUBLICATIONS

Shahrier, R., Hasan, M. N., Ankita, S. Y., Tasnim, I., & Rahman, K. T. (2025). Impact of climate change on Boro rice production in Bangladesh: Evidence from time series modeling. *PLoS ONE*, 20(7), e0328699. <https://doi.org/10.1371/journal.pone.0328699>

Alam, M.S., Hasan, M.N., Sharif, M.A., Islam, M.S., Rahman, M.M., **Shahrier, R.**, et al. (2025) Relationship between oxidative stress and COVID-19 severity: A systematic review and meta-analysis. *J Adv Vet Anim Res*, 12(3), 975–987.

ON-GOING RESEARCH

1. Manuscript Title: “*Genome-wide bioinformatics analysis of the MATE gene family for abiotic stress tolerance in sunflowers (Helianthus annuus L.)*”

Authors: Mohammad Nazmol Hasan, Md. Robin Islam and **Rafee Shahrier**.

Submitted to: **PLOS ONE** (under review)

2. Manuscript Title: “*Machine Learning and Bioinformatics-Based Identification and Characterization of Key Genomic Biomarkers in Dwarf Virus-Affected Wheat*” [Submitted]

Authors: **Rafee Shahrier**, Mohammad Amirul Islam, Mohammad Nazmol Hasan, and Md. Robin Islam.

SKILLS

- Programming Languages : R, Python.
- Statistical Software : STATA, EViews, and SPSS.
- Language : Bangla, English.
- Others : MS Word, Excel, PowerPoint, and Inkscape.

PRESENTATION IN CONFERENCE

Shahrier, R., Tasnim, I., Ankita, S.Y., Hossain M.I., and Hasan, M.N. (2022). Impact of Climatic Factors on Boro Rice Production and Food Security in Bangladesh. *5th Young Scientist Congress 2022*. 25-27 November 2022, Bangladesh Academy of Sciences, National Science & Technology Complex, Agargaon, Dhaka 1207.

Type: Oral Presentation

Published Abstract: *Journal of Bangladesh Academy of Sciences*. 46-1: 41

ISSN: P-0378-8121, E-2224-7270

GRANTS & AWARDS

- National Science and Technology Fellowship (NST), Bangladesh, 2023–2024.
- Merit-based Scholarship in Undergraduate study (2nd position), 2023.
- Merit-based Scholarship in Junior School Certificate examination (1st Position), 2012.
- Merit-based Scholarship in Primary School Certificate examination (3rd Position), 2009.

EXTRA-CURRICULAR ACTIVITIES

- Champion of regional round “Student to Startup- Chapter 1”, team “Home Service”, arranged by ICT Division & Young Bangla, 2019.
- Champion “Poem Recitation” cultural event arranged by Kaler Kantho- Shuvosangho, 2019.
- Runner up “Public Speaking” cultural event arranged by Kaler Kantho- Shuvosangho, 2019.
- Boys Scout, Kahaloo High School, 2010-2015.
- Champion of “Regional Chess Competition”, 2009.

TRAINING & WORKSHOPS

- “Impact assessment of salt-tolerant crop varieties developed by NARS Institute” enumerator training arranged by Bangladesh Institute of Nuclear Agriculture (11 May, 2024)
- “Statistical and machine learning approaches for social sciences and bioinformatics” arranged by the Department of Statistics (8 June, 2023).
- “Extension Education Field Trip 2020” arranged by the Department of Agricultural Extension & Rural Development (24 – 29 November, 2021).
- “R Programming” authorized by Johns Hopkins University and offered through Coursera (2021).
- “Programming for Everybody (Getting Started with Python)” authorized by the University of Michigan and offered through Coursera (2020).
- “Statistical Data Analysis” organized by Bangabandhu Sheikh Mujibur Rahman Agricultural University (2018).

VOLUNTEERING

Vice President

Students Association of University, Medical & Engineering (SAUME), Bogura

June 2022 – June 2024

- Providing financial support to poor students
- Tree plantation to save the environment
- Relief distribution among the poor

Planning Secretary

Kaler Kantho – Shuvosangho, BSMRAU, Gazipur

June 2020 – May 2022

- Providing study materials to poor children
- Providing clothes and food to poor families
- Organizing seminars and cultural programs

REFERENCES

Dr. M. Wakilur Rahman

Professor,

Department of Rural Sociology

Faculty of Agricultural Economics & Rural Sociology

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Dr. Mohammad Amirul Islam

Professor,

Department of Agricultural & Applied Statistics

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Dr. Mohammad Nazmol Hasan

Professor,

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