Raisa Rashid Mim

Institute of Statistical Research and Training, University of Dhaka

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Education

University of Dhaka
GPA: 3.69 out of 4.00

Master of Science (M.S.) in Applied Statistics and Data Science 2024 – 2026

- **M.S. Thesis**: Simulation Study to Assess the Performance of Different Methods for Estimating Variance Components of the Random Effect Logistic Model. [Supervisor: Dr. M Shafiqur Rahman]
- **Relevant Coursework**: Advanced Bayesian Statistics, Longitudinal Data Analysis, Casual Inference, Big Data Analysis, Machine Learning.

University of Dhaka
CGPA: 3.92 out of 4.00

Bachelor of Science (B.S.) in Applied Statistics 2020 – 2024

- **Relevant Coursework**: Statistical Inference, Advanced Probability and Stochastic Processes, Multivariate statistics: PCA, FA, Classification, Clustering; Epidemiology, Population Studies and Demography, Survival Analysis.
- **B.S. Project**: Prevalence and Determinants of Violent Disciplinary Practices for Children in Bangladesh: Evidence from a Nationally Representative Survey [published].

Research Experience

Undergraduate Research Experience Sep 2023 – Feb 2024

Institute of Statistical Research and Training, University of Dhaka

- **Project**: Prevalence and Determinants of Violent Disciplinary Practices for Children in Bangladesh: Evidence from a Nationally Representative Survey.
- **Responsibilities**: Data curation and analysis; manuscript drafting and report preparation.
- Supervisor: Mohammad Shahed Masud

Graduate Research Experience Aug 2025 – Nov 2025

Institute of Statistical Research and Training, University of Dhaka

- **Thesis**: Simulation Study to Assess the Performance of Different Methods for Estimating Variance Components of the Random Effect Logistic Model.
- **Responsibilities**: Simulation study; data curation and analysis; manuscript drafting and report preparation.
- Supervisor: Dr. M Shafiqur Rahman

Independent and Collaborative Research Projects Sep 2025 – present

Institute of Statistical Research and Training, University of Dhaka

- **Independent Project**: Association of Antenatal Care and Child Malnutrition: A Doubly Robust Approach with Adjustment for Clustering Effects, mentored by Md. Muhitul Alam, University of Dhaka.

Publications

Published

- **Mim RR**, Masud MS **(2025)**. Prevalence and determinants of violent disciplinary practices for children in Bangladesh: Evidence from a nationally representative survey. **PLoS One**, 20(8), e0329017. https://doi.org/10.1371/journal.pone.0329017
- Islam MS, **Mim RR**, Malitha SB, Alam MZ, Chowdhury AMS **(2026)**. Current Research Trend and Future Research Trajectory of Single Atom Catalysis in Environmental Pollution Control: A Hybrid Approach. *EcoMat*, 8(5), e70072. DOI: 10.1002/eom2.70072
- Hasanuzzaman Shimul MM, Islam MS, **Mim RR**, Malitha SB, Alam MZ, Chowdhury AMS **(2026)**. Statistical Correlations in Green Synthesis of Nanoceria: Linking Process Parameters to Nanoparticle Properties. **Nano Select**, 7(7), e70167. https://doi.org/10.1002/nano.70167

Achievement

- **Dean's Award**: Recognized for outstanding academic performance during undergraduate studies.
- **NST Fellowship**: Received National Science and Technology (NST) Fellowship (2024-2025) from the Ministry of Science and Technology of Bangladesh Government for the thesis titled "Simulation Study to Assess the Performance of Different Methods for Estimating Variance Components of the Random Effect Logistic Model."

Scientific Presentations

- **Prevalence and Determinants of Violent Disciplinary Practices for Children in Bangladesh: Evidence from a Nationally Representative Survey**: Presented at the 8th International Conference on "The Role of Statistics and Data Science in 4IR."
- **Prevalence and Determinants of Violent Disciplinary Practices for Children in Bangladesh: Evidence from a Nationally Representative Survey**: Presented at the 19th National Statistical Conference 2025 by Bangladesh Statistical Association (BSA).
- **Simulation Study to Assess the Performance of Different Methods for Estimating Variance Components of the Random Effect Logistic Model**: Presented at the International Conference on Applied Statistics and Data Science 2025 (ICASDS-2025).

Skills

Software skills

- **Statistical software**: **R** (expert), **SQL** (intermediate), **Python** (intermediate), **Power BI** (intermediate), **STATA** (expert), **SPSS** (intermediate).
- Proficient in **LaTeX**, **Microsoft Office Suite** and **RMarkdown.**

Technical skills

- Data analysis and visualization in using **tidyverse** family and **ggplot2** packages.

Graphic Design skills

- Proficient in **Canva.**

Work Experience

Business Operations Analyst Mar 2026-May 2026
Qtec Solution Limited

- Generating reports for various stakeholders.
- Research and development.
- Supporting online branding through website, LinkedIn, and Facebook page management.

Teaching Experience

Student Instructor Oct 2019-Present

- Conducted a one-month training program on statistical research methods using R and Python for faculty members at the University of Dhaka.
- Taught Mathematics, English and Science to high school and college students through one-on-one tutoring sessions.
- Worked as a exam grader for students in a coaching center (UDVASH) in Dhaka.
- Tutored a third-year university student in Statistics, Linear algebra, and STATA software.

University Services and Activities

Executive Secretary, Graphic Design 2020-2021
ISRT Students' Club, Institute of Statistical Research and Training (ISRT), University of Dhaka.

- Created posters for events, including club announcements.
- Designed a wall magazine featuring writings related to statistics. Responsibilities included collecting writings from the students, editing them in Canva and arranging them on the board.

Voluntary Experience Oct 4, 2023
Institute of Statistical Research and Training (ISRT), University of Dhaka

- Served as an event volunteer for the Launching Ceremony of the Applied Statistics and Data Science Program. My responsibility was there to organize the seating arrangements.

19th National Statistical Conference 2025, Bangladesh Statistical Association (BSA) Aug 22, 2025

- Volunteered at the event, managing participant registration for oral and poster presentations, organizing certificates, and distributing them after the presentations.