

Md Rasel Biswas, M.S.

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EDUCATION

University of Dhaka

Master of Science (MS) in Applied Statistics

*Dhaka, Bangladesh
Jan 2020 — Jan 2022*

- **GPA:** 4.00/4.00 (Ranked 1st among 21 thesis-group students)
- **Thesis:** *Evaluation of the Methods for Multi-Parameter Hypothesis Testing in Multiple Imputation* (supervised by [Dr. A.H.M. Mahbub-ul Latif](#))

University of Dhaka

Bachelor of Science (BS) in Applied Statistics

*Dhaka, Bangladesh
Jan 2016 — Dec 2019*

- **Relevant Coursework:** Sampling Techniques; Epidemiology; Time Series Analysis; Generalized Linear Models; Lifetime Data Analysis; Bayesian Statistics; Multivariate Statistics (PCA, Factor Analysis, Classification, Clustering); Econometric Modeling
- **CGPA:** 3.96/4.00 (Ranked 1st among 46 students)
- **Thesis:** *The Impact of Sample Sizes on the Accuracy of Estimates for a Multi-Level Logistic Regression Model* (supervised by [Ms. Noor Jahan Aktar](#))

TEACHING EXPERIENCE

LECTURER

Institute of Statistical Research and Training, University of Dhaka

July 2022 — Present

- Teach 3-4 courses each academic year to undergraduate Applied Statistics majors.
- Developed innovative course materials using Quarto and R Markdown.
- Key Courses:

Year	Course
2024	AST230: R for Data Science (Course site: https://ast230.netlify.app)
2024—2022	AST301: Design and Analysis of Experiments II (Site: https://ast301.netlify.app)
2024	AST405: Lifetime Data Analysis (Course site: https://ast405.netlify.app)

TEACHING FELLOW

James P Grant School of Public Health, BRAC University

Mar 2022 — Apr 2022

- Assisted in teaching biostatistics for the Master of Public Health (MPH) program.
- Conducted computing lab sessions and provided student support.

GRADUATE STUDENT TUTOR

Institute of Statistical Research and Training, University of Dhaka

Mar 2020 — Sep 2020

- Provided academic support for undergraduate courses, including introductory statistics, probability, calculus, linear algebra, simulation, inference, and experimental design.

RESEARCH EXPERIENCE

RESEARCH SUPERVISION

Master's Projects Supervised

- Samiul Ehsan (MS Session 2022-23): "The Impact of Maternal Employment on Child Nutritional Diversity in Bangladesh: A Causal Forest Analysis with Clustered Data" ([Published article](#))
- Tanjim Ahmed Ardi (MS Session 2022-23): "Investigating The Role of Rural Residence in Early Marriage in Bangladesh: A Causal Analysis Approach"

Undergraduate Projects Supervised (6 total)

- Saiyeda Tasmia Ahmed (BS Session 2023-24): "Factors Influencing Age at First Birth in Bangladesh: A Survival Analysis Approach"
- Rabiul Alam Nayem (BS Session 2023-24): "Investigating the Timing of First Antenatal Care Among Women in Bangladesh: A Survival Analysis Approach"
- Tayaba Cheragee Prachee (BS Session 2022-23): "Exploring the socioeconomic determinants of dietary diversity in rural bangladesh: A longitudinal study" ([Published article](#))
- Md. Al Amin (BS Session 2022-23): "Modelling and Forecasting Maximum Temperature of the Dhaka City"
- Jannatul Yasmin (BS Session 2022-23): "Knowledge of HIV/AIDS Among Married Women: Comparison Between Three South Asian Countries"
- Md. Aminul Islam Shazid (BS Session 2021-22): "Factors Associated with Fertility: A Poisson Regression Approach"

PUBLICATIONS

ORCID: [0000-0002-7391-7608](#)

JOURNAL ARTICLES

1. Ehsan S and **Biswas MR** (2025), "The Impact of Maternal Employment on Child Nutritional Diversity in Bangladesh: A Causal Forest Analysis with Clustered Data," *Journal of Statistical Research*, 58(2), 317–333. DOI: [10.3329/jsrv58i2.80614](#)
2. Prachee TC, **Biswas MR**, Islam S (2025), "Exploring the Socioeconomic Determinants of Dietary Diversity in Rural Bangladesh: A Longitudinal Study," *PLOS ONE*, 20(2): e0317623. DOI: [10.1371/journal.pone.0317623](#)
3. Barua P, Mahjuba S, **Biswas MR**, Alamgir Khan A, Rahman MK, & Musa S (2024), "Socio-Demographic Factors Associated with the Knowledge, Attitude and Practice (KAP) of Dengue Patients of Dhaka City During 2021 Dengue Outbreak," *Bangladesh Journal of Zoology*, 52(2), 167–184. DOI: [10.3329/bjz.v52i2.77271](#)
4. Barua P, Mahjuba S, Khan AA, **Biswas MR**, Rahman MK, & Musa S (2024), "Clinical Manifestations and Seasonal Occurrence of Patients With Dengue Hospitalized at Dhaka City of Bangladesh in 2021," *Dhaka University Journal of Biological Sciences*, 33(1), 33–46. DOI: [10.3329/dujbs.v33i1.72468](#)

TECHNICAL SKILLS

- Programming & Software: Proficient in **R**; intermediate in **Stata** and **SPSS**; beginner in **Python**
- Experienced with **Quarto**, **R Markdown**, **LaTeX**, **Git**, and **GitHub**
- Data analysis and visualization using the **tidyverse** family and **ggplot2** packages in **R**

HONORS / AWARDS

- 2020: **National Science and Technology Fellowship**, for MS thesis research Govt. of Bangladesh
- 2020: **ISRT Golden Jubilee Gold Medal**, for graduating top of the class in BS Honors Univ. of Dhaka
- 2020: **Dean's Honor Award**, Awarded by the Faculty of Science Univ. of Dhaka
- 2017: **ISRT Merit Stipend** Univ. of Dhaka
- 2017: **Moulovi Ahmed Ullah Memorial Trust Fund Stipend** Univ. of Dhaka

PROFESSIONAL DEVELOPMENT

CONFERENCES

- **Invited Speaker** — *"Evaluation of the Methods for Multi-Parameter Hypothesis Testing in Multiple Imputation: A Focus on Correlated Responses"*
8th International Conference on The Role of Statistics and Data Science in 4IR
Rajshahi, Bangladesh | December 26, 2024
- **Poster Presenter** — *"The Impact of Sample Sizes on the Accuracy of Estimates for a Two-level Logistic Regression Model"*
2nd International Conference on Applied Statistics (ICAS2019)
Dhaka, Bangladesh | December 29, 2019

TRAININGS CONDUCTED

- **Trainer** — *"Training on Stata for BBS Officials"*
Bangladesh Bureau of Statistics | June 2025
Designed the curriculum and conducted 12+ hours of hands-on training sessions on using Stata for statistical analysis. (<https://github.com/raselbw/bbs-stata-training>)
- **Resource Person** — *"Training on the Application of Machine Learning Techniques in Agriculture"*
Bangladesh Agricultural Research Council | May 2025
Delivered two expert sessions: *"Unsupervised Learning: Concepts and Applications"* and *"Regression Analysis in Agriculture."* (<https://github.com/raselbw/barc-ml-training>)
- **Coordination Team Member** — *"Capacity Strengthening Program on Educational Data Analysis Techniques and Reporting"*
ISRT, University of Dhaka | January 2023
Contributed to program coordination and conducted 12 hours of lab sessions for officials from TMED, DTE, BTEB, BANBEIS, and NSDA.

WORKSHOPS ATTENDED

- **Attendee** — *"Report Writing Workshop on Bangladesh Demographic and Health Survey 2022"*
The DHS Program at NIPOORT, Dhaka | August 6–14, 2023
Completed the 7-day intensive training on demographic survey analysis. Recognized as a **contributing author** in the [2022 BDHS Final Report](#).
- **Attendee** — *"Foundation Certificate in University Teaching & Learning"*
DU IQAC at BARD, Cumilla | May 24 — June 6, 2024
Completed the 14-day residential program on pedagogical techniques.

PROFESSIONAL AFFILIATIONS

- Life Member, Bangladesh Statistical Association (BSA) 2022 — Present
- Life Member, [ISRT Alumni Association, University of Dhaka](#) 2022 — Present

SERVICE AND LEADERSHIP

Galley Proofreader, *Journal of Statistical Research* 2022 — Present

- Formatted galley proofs for 30+ articles for the Scopus-indexed journal.

Sports Advisor, *ISRT, University of Dhaka* 2022 — Present

- Provide guidance and organizational support for student participation in sports activities.

Convener, *ISRT Students' Club, University of Dhaka* 2019 — 2020

- Led the coordination and organization of student-led events including seminars, cultural programs, and intra-departmental competitions.

REFERENCES

1. **Dr. A.H.M. Mahbub-ul Latif**
Professor, ISRT
University of Dhaka, Bangladesh
Email: mlatif@isrt.ac.bd
2. **Dr. Tamanna Howlader**
Professor & Director, ISRT
University of Dhaka, Bangladesh
Email: tamanna@isrt.ac.bd