Md. Rasel Biswas, M.S.

Institute of Statistical Research and Training (ISRT)
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EDUCATION

University of Dhaka   *Dhaka, Bangladesh*
Master of Science in Applied Statistics   *Jan 2020 — Jan 2022*

- **GPA:** 4.00/4.00 (First in thesis group)
- **Thesis:** *Evaluation of the Methods for Multi-Parameter Hypothesis Testing in Multiple Imputation*
- Supervisor: Dr. A.H.M. Mahbub-ul Latif

University of Dhaka   *Dhaka, Bangladesh*
Bachelor of Science in Applied Statistics   *Jan 2016 — Dec 2019*

- **CGPA:** 3.96/4.00 (First in class)
- **Thesis:** *The Impact of Sample Sizes on the Accuracy of Estimates for a Multi-Level Logistic Regression Model*
- Supervisor: Ms. Noor Jahan Aktar

EMPLOYMENT

- **Assistant Professor**
  Applied Statistics and Data Science, University of Dhaka   *Nov 2025 — Present*

- **Lecturer**
  Applied Statistics, University of Dhaka   *Jul 2022 — Nov 2025*

- **Part-time Lecturer**
  Department of Psychology, University of Dhaka   *Sep 2025 — Present*

TEACHING EXPERIENCE

Institute of Statistical Research and Training, University of Dhaka

- Courses taught:

Year	Course
2025	CSE331: Python for Data Science (Course site: https://cse331.netlify.app)
2025—2024	AST230: R for Data Science (Course site: https://ast230.netlify.app)
2025	AST305: Lifetime Data Analysis I (Course site: https://ast305.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)
2023	AST403: Multivariate Statistics II
2023, 2022	AST406: Research Methodology and Social Statistics

Department of Psychology, University of Dhaka

- Courses taught:

Year	Course
2025	PSY206: Data Management and Analysis (Course site: https://psy206.netlify.app)

Teaching Fellow

James P Grant School of Public Health, BRAC University Mar 2022 — Apr 2022

- Assisted with biostatistics instruction for the MPH program.
- Conducted hands-on lab sessions and provided academic support.

Graduate Student Tutor

Institute of Statistical Research and Training, University of Dhaka Mar 2020 — Sep 2020

- Supported undergraduate courses in statistics, probability, algebra, simulation, inference, and design of experiments.

RESEARCH EXPERIENCE

RESEARCH SUPERVISION

Master's Theses Supervised

- Samiul Ehsan (2022–23): *Maternal Employment and Child Nutritional Diversity in Bangladesh: A Causal Forest Analysis with Clustered Data* — **Published**
- Tanjim Ahmed Ardi (2022–23): *The Role of Rural Residence in Early Marriage in Bangladesh: A Causal Analysis Approach*

Undergraduate Theses Supervised (6 total)

- Saiyeda Tasmia Ahmed (2023–24): *Determinants of Age at First Birth: A Survival Analysis Approach*
- Rabiul Alam Nayem (2023–24): *Timing of First Antenatal Care in Bangladesh: A Survival Study*
- Tayaba Cheragee Prachee (2022–23): *Socioeconomic Determinants of Dietary Diversity in Rural Bangladesh* — **Published**
- Md. Al Amin (2022–23): *Modeling and Forecasting Maximum Temperature of Dhaka City*
- Jannatul Yasmin (2022–23): *Knowledge of HIV/AIDS Among Married Women in South Asia*
- Md. Aminul Islam Shazid (2021–22): *Factors Associated with Fertility: A Poisson Regression Approach*

PUBLICATIONS

ORCID: 0000-0002-7391-7608

JOURNAL ARTICLES

1. Ehsan S, **Biswas MR** (2025). *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.

2. Prachee TC, **Biswas MR**, Islam S (2025). *Socioeconomic Determinants of Dietary Diversity in Rural Bangladesh: A Longitudinal Study.* **PLOS ONE**, 20(2): e0317623.

3. Barua P et al., including **Biswas MR** (2024). *Socio-Demographic Factors Associated with KAP Among Dengue Patients in Dhaka City.* **Bangladesh Journal of Zoology**, 52(2), 167–184.

4. Barua P et al., including **Biswas MR** (2024). *Clinical Manifestations and Seasonal Occurrence of Dengue Patients in Dhaka City.* **DU Journal of Biological Sciences**, 33(1), 33–46.

TECHNICAL SKILLS

- **Programming:** R, Python
- **Software:** Stata, SPSS

- **Reproducible Research:** Quarto, R Markdown, LaTeX
- **Version Control:** Git, GitHub
- **Specialization:** tidyverse, ggplot2, statistical modeling, causal inference, survival analysis

HONORS & AWARDS

- Certificate of Appreciation, BRAC University (Teaching Fellow, Biostatistics), 2022
- National Science and Technology Fellowship, Govt. of Bangladesh (MS Research), 2020
- ISRT Golden Jubilee Gold Medal (Top graduate in BS), University of Dhaka, 2020
- Dean's Honor Award, Faculty of Science, University of Dhaka, 2020
- ISRT Merit Stipend (2017–2020)
- Ahmed Ullah Memorial Trust Fund Stipend, University of Dhaka, 2017

PROFESSIONAL DEVELOPMENT

CONFERENCES

- **Invited Talk** — 8th International Conference on The Role of Statistics and Data Science in 4IR Rajshahi, Bangladesh | Dec 26, 2024

- **Poster Presentation** — 2nd International Conference on Applied Statistics Dhaka, Bangladesh | Dec 29, 2019

TRAININGS CONDUCTED

- **Trainer**, SPSS — Bangladesh Civil Service Administration Academy | Jul 2025
- **Trainer**, Stata — Bangladesh Bureau of Statistics | Jun 2025
- **Resource Person**, Machine Learning in Agriculture — BARC | May 2025
- **Coordination & Instructor**, Educational Data Analysis Program — ISRT | Jan 2023

WORKSHOPS ATTENDED

- Report Writing Workshop on BDHS 2022 — NIPORT/DHS Program | Aug 2023
- Foundation Certificate in University Teaching & Learning — DU IQAC | May–Jun 2024

PROFESSIONAL AFFILIATIONS

- Life Member, Bangladesh Statistical Association
- Life Member, ISRT Alumni Association

SERVICE & LEADERSHIP

Galley Proofreader, *Journal of Statistical Research* (2022–Present) **Sports Advisor**, ISRT (2022–Present) **Convener**, ISRT Students' Club (2019–2020)

REFERENCES

1. **Dr. A.H.M. Mahbub-ul Latif** Professor, ISRT University of Dhaka Email: mlatif@isrt.ac.bd

2. **Dr. Tamanna Howlader** Professor & Director, ISRT University of Dhaka Email: tamanna@isrt.ac.bd