K M Tanvir

Lecturer
Institute of Statistical Research and Training, University of Dhaka

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Overview

- Completed Bsc and Msc in Applied Statistics from University of Dhaka
- More than 3 years of research and 2 years of teaching experience
- Received a grant as a principal investigator from Global Affairs Canada
- Published 1 journal article as 1st author, 3 journal articles as co-author, and 3 journal articles are under review
- Received 8 prestigious fellowships and awards for academic and research excellence
- Supervised a team of 7 researchers including 2 physicians, 4 statisticians, and a software engineer

Education

December 2021 - December 2022

Master of Science/ Applied Statistics

ISRT, University of Dhaka, Bangladesh

GPA - 4.00 out of 4.00

January 2017 - December 2021

Bachelor of Science/ Applied Statistics

ISRT, University of Dhaka, Bangladesh

CGPA - 3.93 out of 4.00

April 2014 - March 2016

Higher Secondary Certificate / Science

Notre Dame College, Dhaka, Bangladesh

GPA - 5.00 out of 5.00

January 2004 - February 2014

Secondary School Certificate / Science

Dhanmondi Govt. Boys High School, Dhaka, Bangladesh

GPA - 5.00 out of 5.00

Research Experience

October 2022 - October, 2023

International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b) / Statistical Officer

1. (Project) Feasibility Checking of Inpatient Register: Assisted supervisor with protocol writing, budget making and justification, data preparation, data analysis, visualization, and report writing.

2. (Project) Comprehensive Newborn Care Package: Assister supervisor with data analysis, visualization and report writing.

3. (Project) Systematic review on oxygen management from DHS studies worldwide: Assisted supervisor on planning, systematic data finding, analysis, visualization and report writing.

4. StatReaders: conducted workshops and training sessions on statistics and STATA.

December 2021 - November 2022

University of Dhaka / Research Assistant

1. Explored dietary and environmental impact on cancer patients in Bangladesh.
2. Assisted supervisor with proposal writing, establishing sampling design, preparing questionnaires, training data collectors, conducting data cleaning, summarizing and analyzing the data.

Teaching Experience

October 2023 - Present

Institute of Statistical Research and Training, University of Dhaka, Bangladesh (ISRT) / Lecturer

1. Courses taught: experimental design, sampling methods, fundamental mathematics, industrial statistics and operations research, demography, SQL for data science
2. Supervised 5 research project students: working with secondary data (DHS, MICS, and BAHWS)

July 2019 – June 2021

10 MIN SCHOOL / Instructor of Statistics

1. Made more than 300 videos on statistics to help students learn the basics of statistics clearly.

Research Grants

1. FertiMeter: A Free of Cost Screening Process of Polycystic Ovary Syndrome and Awareness Building to Reduce Adverse Pregnancy Outcomes. (2023)
   - Grant collection as a principal investigator (Grant amount: $24754, Donor: Global Affairs Canada)
   - Proposal writing for grant collection and protocol writing for IRB approval.
   - Budget making and justification
   - Team formation, supervising, and execution (On going)

1. Sleep health for pre-school children of Bangladesh: predictors and sleep promotion intervention (2023)
   - Grant collection as co-investigator from USAID (Grant amount: $107900)
   - Protocol writing for IRB approval

2. Dietary and Environmental Impacts on Cancer Episode in Bangladesh (2022).
   - Grant collection as a co-investigator from Dhaka University Centennial Research Grant
   - Budget making and justification
   - Data analysis and final report writing.

Projects

- Pregnancy Complications of Women with PCOS: A Meta Analysis (BS Project)
- A Quadratic Inference Functions Approach for Analyzing Spatially Clustered Data: Disease Progression Study (MS Thesis).

Recent Publications

- Ahmed, A., Akter, E., Sayeed, A., Rahman, F., Hanson, M., Saha, N., Sajib, M. R. U. Z., Hossain, L., Tanvir, K., Hossain, A. T., et al. (2024). Factors influencing delivery-related complications and their consequences in hard-to-reach areas of bangladesh. *Sexual & Reproductive Healthcare*, 40:100973.

- Ameen, S., Shafiq, S. S., Tanvir, K., Saberin, A., Banik, G., Anm, E. K., Ashrafee, S., Saha, P. K., Amena, B., Alam, H. M. S., et al. (2024). Introducing a standardised register for strengthening the inpatient management of newborns and sick children: Implementation research in selected health facilities of bangladesh. *Journal of Global Health*, 14.

- Rahman, F., Dalal, K., Hasan, M., Islam, T., Tuli, S. N., Akter, A., Tanvir, K., Islam, K., Rahman, A., Nabi, M. H., et al. (2023). Insomnia and job stressors among healthcare workers who served covid-19 patients in bangladesh. *BMC Health Services Research*, 23(1):523.

- Tanvir, K. and Rahman, M. L. (2021). Pregnancy complications in women with pcos: A meta-analysis. *The Dhaka University Journal of Science*, 69(2):82–87.

Research Skills

- Programming Skill: R, STATA, SPSS, SAS, Minitab, SQL
- Budget making and protocol writing
- Data analysis, exploration and data visualization
- Writing reports and communications
- Supervising research teams

Awards

September 2023

Dean's Award 2020

Science Faculty, University of Dhaka

| MAY 2023 | **Best Innovation Award** |
| | National Conference on Sexual and Reproductive Health and Rights |

| January 2022 | **NST Fellowship** |
| | For research excellence |

| May 2020 | **Govt. Honors Scholarship** |
| | For academic excellence |

| June 2019 | **Qazi Motahar Hossain Foundation Award** |
| | For writing excellence |

| September 2015 | **Children Science Congress** |
| | Champion in project showcasing category |

| March 2015 | **Frooto 12th Intra College Science Festival** |
| | Holy Cross College, Dhaka. Champion in IT project category |

| November 2014 | **3rd DUITS National Campus IT Fest** |
| | University of Dhaka. 1st Runners Up in IT-based project showcasing |

Conference

May, 2023	**National Conference on Sexual and Reproductive Health and Rights**
	InterContinental, Dhaka, Bangladesh
	Oral and Poster Presentation on innovation idea to reduce adverse pregnancy outcomes

December, 2019	**International Conference on Applied Statistics (ICAS)**
	Senate Bhaban, University of Dhaka, Bangladesh
	Poster Presentation on Consumer Behavior towards Online Shopping

Recent Talks

June, 2023	**Capacity Development Workshop of Health Professionals**
	Bangabandhu Sheikh Mujib Medical College, Dhaka
	• Took a session on regression

March 2023	**Workshop on Research Methodology**
	Asian University for Women(AUW), Jahangir Nagar University(JU)
	• Took a session on sample size calculation techniques

January 2023

Workshop on Scientific Publication

Shahjalal University of Science and Technology(SUST)

- Took a session on data visualization techniques in a journal paper

November 2022

Workshop on Stata

Icddr,b, Dhaka

- Took multiple sessions on regression and data visualization using STATA

Academic Referees

Professor Dr. Syed Shahadat Hossian

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Professor Dr. M. Shafiqur Rahman

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Professor Dr. Mohammad Lutfor Rahman

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