Zakaria Hossain

Statistician
BRAC James P Grant School of Public Health
(+88) 01521749871
zhossain@isrt.ac.bd

An experienced Statistician with 5.1 years of working experience who has a track record of success in complex data management, experience with impact evaluation and quantitative research, and the ability to manage and analyze both large and nationally representative datasets. Proficient in several data analysis, collection and visualization software, including Stata, Excel, R, SPSS, Minitab, SurveyCTO, KoboCollect, PowerBI, and LaTeX. Have completed Master of Science and Bachelor of Science in Applied Statistics from University of Dhaka and currently working as a Statistician at BRAC James P Grant School of Public Health, and previously employed as a Research Officer at Population Council Bangladesh, and as a Consultant at Global Alliance for Improved Nutrition (GAIN) Bangladesh and before that worked as an Intern Research Assistant at icddr,b, and at University of Dhaka as a Research Assistant and as a BSc Level Researcher.

Work Experience

BRAC James P Grant School of Public Health/ Statistician
September 2024– till now

- As part of Key Performance Indicator (KPI), served as a Teaching Fellow for the Quantitative Research Methods course in the Master of Public Health program at BRAC University. Conducted specialized sessions on SurveyCTO and data visualization techniques in Stata; supported students in questionnaire development, data analysis, and report writing for the Quantitative Research Methods course. Supervised and monitored student-led field surveys, ensuring data quality and adherence to research protocols. Held planning meetings with facilitators to finalize schedules, course content, and materials; designed evaluation forms to assess student presentations marking.
- Contributed actively to the strategic planning and evaluation of program activities, including the development of questionnaire, sampling designing, annual timelines, work plans, progress reports, interim reports, one-pagers, protocol papers, and manuscripts for donor submissions and journal publications.
- Presented field challenges and mitigation strategies at the in-house Early and Mid-Career Researcher's Forum (EMCRF).
- Provided training to data enumerators, supervised field activities, and conducted regular monitoring visits to ensure quality data collection.
- Collected, analyzed, and interpreted statistical data to inform evidence-based decision-making and support innovative approaches in climate change and health research projects.
- Collaborated with national organizations on interdisciplinary research initiatives, advancing knowledge at the intersection of climate change and public health.
- Generated critical evidence on the impacts of global climate change through comprehensive data analysis and manuscript development, contributing directly to key project deliverables.

Population Council/ Research Officer
July 2023 – September 2024

- Strategic planning and program management: Managed the project under guidance of the principal investigator/supervisor. Actively contributed to strategic planning of program, activities and monitoring and evaluation. Prepared annual timeline, work plan and annual progress reports for donor submission.
- Technical assistance and capacity building: Had done data analysis and technical report writing. Provided, in consultation with supervisor, administrative and technical support to partner agencies. Provided rigorous training to data collectors on data collection techniques and on data enumerators and data collection instruments to program personnel. Supervised and monitored data collectors for ensuring quality data collection.
- Coordination and networking: Closely worked and communicated with colleagues from partner and donor organizations in coordinating project activities. Participate in and represent the Council in inter-agency networks.

- Supervision and monitoring: Mentored one or more project staff. Managed overall project activities in consultation with principal investigator/ supervisor. Supervised field activities and undertaken routine monitoring visits to the field.
- Analysis, report writing and publication: Designed whole questionnaire in SurveyCTO. Performed data cleaning and analysis of whole study data. In consultation with principal investigator/supervisor, prepared periodic and final reports.
- Communication and dissemination of research findings: Prepared oral presentations for professional meetings and made oral presentations at national level dissemination program.

Global Alliance for Improved Nutrition/ Consultant
December 2022 – January 2023

- Assisted in developing the questionnaire to collect both quantitative and qualitative data from the consumer (mother, father, caregiver, etc.) about their experience with FullCare (buying, consumption etc.). The survey data collected in mobile using KoboCollect android app and provided regular feedback to team members.
- Performed data cleaning, analysis and draft report writing.
- Field work: Team formation, assigning task, travel & lodging, data collection and error identification.

icddr, b/ Intern
August 2022 – November 2022

- BDHS 1993-94 to 2017-18 data was used, and statistical analysis was done to see the trend in child marriage among women in Bangladesh.
- Logical checking tool was generated using Stata and the tool was used to ensure high quality of the data.
- Also done some literature review, variable selection, created dummy table, presentation slides, recoding, labeling, interpretation of the findings.

University of Dhaka/ Research Assistant
May 2021 - July 2022

- Stata, Excel, and R used for the data cleaning, coding, and analysis.
- Literature review, variable selection, recoding, labeling, analysis, interpretation of the findings, and report writing.

University of Dhaka/ BSc level Researcher
March 2020 - March 2021

- This research project was entitled as Risk factors for acute respiratory infections in children under five years of age in Bangladesh and was a partial requirement for the Bachelor of Science in Applied Statistics.
- Bangladesh MICS 2019 data was used and logistic regression, chi-square test, bivariate analysis was performed to find the risk factors for ARI. And full report was written.

Skills	• Programming Skill: Stata, R, SPSS, SAS, Minitab, MATLAB, C • Data Collection & visualization Tool: Survey CTO, EPI info., Power BI • Data management, analysis & report writing • Others: LaTeX, PowerPoint, Excel, Word, Forms, Docs, Sheets, Slides
Research Projects and Publications	• NIHHIS-CAPA Urban heat island mapping campaign, Dhaka, Bangladesh • BRAC Health Program (BHP) Surveillance System: Assessing Climate Change Impacts on Health in Saline and Drought-Prone Areas of Bangladesh • Evaluation findings from a group model intervention among first-time mothers in an urban area of Bangladesh (DOI: 10.31899/sbsr2024.1041) • Improving Acceptability, Use and Continuation of IUDs in Bangladesh (worked at Population Council Bangladesh) • Risk factors for acute respiratory infections in children under five years of age in Bangladesh: Logistic Regression (Bangladesh MICS 2019 data) • Trend in child marriage among women in Bangladesh (BDHS 1993-94 to 2017-18 data) (worked at icddr,b) • Sexual and reproductive health and rights (SRHR) of female garment workers (FGWs) living in five urban slums of Bangladesh (worked at icddr,b) • Dipstick Audit on FullCare Sales at Provider level and Consumers' Compliances

Education	**Master of Science**/ Applied Statistics
	December 2021 – November 2022
	ISRT, University of Dhaka
	CGPA – 3.45 out of 4.00

Bachelor of Science/ Applied Statistics
January 2017 - December 2021
ISRT, University of Dhaka
CGPA - 3.44 out of 4.00

Higher Secondary Certificate/ Science
April 2014 - March 2016
Govt. Science College
GPA – 4.75 out of 5.00

Secondary School Certificate/ Science
January 2012 - February 2014
Gulta Bazar Bi-lateral High School
GPA - 5.00 out of 5.00

Conference

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

Certifications

International Symposium on Advanced Statistical Data Analysis and Operational Research (iADORE 2020)
Faculty of Science, Universiti Teknologi Malaysia

Participants of Capacity Building Workshop for DHS Data Users
ISRT, University of Dhaka

Volunteering Works

International Workshop on Sampling Methodologies
December 2019
ISRT, University of Dhaka
Participated as a voluteer

2nd International Conference on Applied Statistics (2019)
December 2019
ISRT, University of Dhaka
Participated as a voluteer

STATA: Student's Organization of ISRT, DU (Vice President)
April 2022 – April 2023
   • Expand skills, create connections
   • Help disadvantaged students by providing scholarship
   • Stand by the disadvantaged people by providing winter clothing

Attojagoron (Associate)
June 2020 – Present
   • Stand by the disadvantaged people
   • Help people by providing food in the crisis time
   • Feeding roadside animals

Education Development Foundation (Co-founder & IT Secretary)
December 2017 - December 2021
   • Stand by the disadvantaged people
   • Help disadvantaged students by providing basic needs for education

Referees

Sharif M.I. Hossain
Acting Country Director (ACD), Population Council, Bangladesh
(+88) 01713018724
sharifhossain@popcouncil.org

Professor Dr. M. Shafiqur Rahman
ISRT, University of Dhaka
(+88) 01811999036
shafiq@isrt.ac.bd

Professor Dr. Md Hasinur Rahaman Khan
ISRT, University of Dhaka
(+88) 01725106661
hasinur@isrt.ac.bd

Jyotirmoy Saha
Consultant, World Bank, Dhaka, Bangladesh
(+88) 01797089202
jsaha@isrt.ac.bd

Evaluation findings from a group model intervention among first-time mothers in an urban area of Bangladesh