

Curriculum Vitae of Md. Rakib Akon

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Summary of Qualifications

I am a research professional specializing in statistical data analysis, public health research and health system evaluations. As a **Senior Research Assistant (Quantitative)** at BRAC James P. Grant School of Public Health, BRAC University, I contribute to projects on healthcare service evaluation and policy research. I hold a Master’s in Statistics from Dhaka College, University of Dhaka and am pursuing a **Master’s in Applied Statistics and Data Science at Jahangirnagar University**.
I am proficient in R, Python, STATA, and Excel, I have extensive experience in survey design, data collection, quality control and statistical modeling. I have conducted **quantitative and qualitative research surveys with patients, healthcare providers and stakeholders to assess health system performance**. My expertise includes document review, rapid assessments, epidemiological studies and both qualitative and quantitative research. I have co-authored research **published in peer-reviewed journal** and have worked on large-scale health system assessments funded by the World Bank, WHO and USAID. Skilled in data-driven insights and policy analysis, I am committed to evidence-based decision-making in public health.
Additionally, I have experience as a Teaching Assistant, guiding students in applied statistical methods and programming.

Education

- Masters in Applied Statistics and Data Science**
Jahangirnagar University, Savar, Dhaka-1342
Semester: Summer 2024

Date: September 2024 – December 2025

 - Relevant Coursework: Data Science with Python, Machine Learning for Data Science, Statistical Inference, Biostatistics and Epidemiology, Time Series Analysis and Forecasting.
- Masters of Science in Statistics**
Dhaka College, University of Dhaka
Session: 2022-23

Date: November 2023 - December 2024

 - Relevant Coursework: Theory of Inference, Advanced Biostatistics, Applied Multivariate Analysis, Design & Analysis of Experiment.
- Bachelor of Science in Statistics**
Government Titumir College, University of Dhaka
2023
Session: 2018-19

Date: January 2019 - December 2023

 - Relevant Coursework: Probability, Hypothesis Testing, Categorical Data Analysis, Research Methodology, Econometrics, Time Series Analysis, Regression Analysis, Multivariate Analysis, Epidemiology, Biostatistics, Demographic Analysis.

Language proficiencies

Bengali	Native
English	Proficient

Professional Experience

- Senior Research Assistant (Quantitative)**
Centre of Excellence for Health Systems and Universal Health Coverage (CoE-HS&UHC),
BRAC James P Grant School of Public Health, BRAC University

Date: June 2024 – Present

 - Assigned to the World Bank project ‘**Implementation of Health System Assessment for System-Level Quality Improvement in Bangladesh**’ & the WHO project ‘**Assessment of Public and Private Blood Transfusion Services under the Directorate General of Health Services (DGHS)**’ & the USAID project ‘**USAID’s Urban Health Activity**’.
 - Spearheaded the development of the XLS form for data collection using **KOBO Toolbox & Survey CTO**.
 - Conducted **quantitative and qualitative** research, including **surveys with patients, healthcare providers and stakeholders**, contributing to a comprehensive **assessment of health system performance**.
 - Played a key role in **document review and Rapid Review** for **health system evaluations**, synthesizing key insights to inform **policy recommendations**.
 - Leading **data quality control** and overseeing the data collection process to ensure high standards and accuracy.
 - Performed **data cleaning**, modeling, outlier identification and correction, data management, categorization and comprehensive **data analysis** by using **R, STATA & Excel**.
 - Expertly tabulated results, **interpreted the findings** and compiled **detailed reports**, ensuring accuracy and clarity in presenting findings.
 - Demonstrated exceptional dedication and consistently met deadlines, Collaborated seamlessly with team members.

Research Fellowship

South Asian Institute for Social Transformation (SAIST)

Date: May 2024

- Played a key role in **data cleaning, data tracking, data management** and data analysis.
- Participated in **data collection campaigns**, collecting data on height, weight, peak flow and blood pressure.
- Consistently completed and submitted work on time, proving strong discipline.

Research Assistant

Research and Education Unit, Uthshargo Foundation Bangladesh

Date: January 2024 – April 2024

- Contributed significantly for the managing research design, **questionnaire preparation**, data collection, **data cleaning and analysis**, interpretation and presentation for various projects.
- Conducted qualitative and quantitative research with experienced professionals.
- Collaborated effectively in a team environment to achieve project objectives.

Teaching Assistant

Department of Statistics, Govt. Titumir College, Dhaka

Date: January 2023 – December 2024

Courses: Categorical Data analysis, Time Series Analysis, Biostatistics, Econometrics, Intro. to SPSS, Regression Analysis and Test of Hypothesis (Using R & SPSS/STATA)

- Developed course materials, conducted assessments and provided individualized support to enhance student understanding and academic performance.
- Led practical sessions on Econometrics and Statistical Modeling, guiding students in applying statistical techniques to real-world data analysis.
- Provided hands-on training in Data analysis for categorical data, time series data and econometric regression analysis using R & STATA, improving students' analytical skills and software proficiency.
- Conducted assessments, provided feedback and evaluated student performance, contributing to a ~25% increase in student retention rates.
- Provided one-by-one instruction and assistance to students in understanding complex statistical concepts, resulting in a ~10% increase in student confidence levels.

Publication

Peer-Reviewed Publication:

Jamil, S., Hossain, M.J., Mohammad Ali, H., **Akon, M.R.**, Asumah, M.N., Hasan, M., Suresh, H., Okesanya, O.J., Al-Mamun, M., Ahmed, M.M. and Sarkar, T.Y., 2025. Association of Knowledge and Attitude Toward Antibiotic Use and Resistance With Self-Medication Practice of Antibiotics Among Bangladeshi Private University Teachers: A Cross-Sectional Study. Health Science Reports, 8(3), p.e70526.

Submitted Paper:

Safayet J., Mohammad, Neeru C., **Akon, M.R.**, Salman S., J. K., Chandrima C., Alauddin C., P. S., Nazli M., Shilpa G., Syed Z. (2024). Knowledge, Awareness, and Preventive Practices on Dengue Fever among Disaster-Affected Riverine Dwellers in Bangladesh. Infectious Medicine. Manuscript Number: IMJ-D-24-00030. (Under Review)

Working Paper:

Assessing the Impact of Demographic Factors on the Economic Burden of Dengue: A Quantitative Analysis of Catastrophic Health Expenditure in Bangladesh

R (programming language), Forest plot, STATA, Microsoft Excel, Regression Analysis

- Utilized R and STATA for data analysis, revealing significant correlations between demographic factors and Catastrophic Health Expenditure (CHE).
- Ensured data accuracy with meticulous cleaning in Excel and developed insightful visualizations (charts, graphs) for effective communication with the team.
- Applied advanced statistical knowledge for regression analysis in R, identifying key predictors influencing Catastrophic Health Expenditure in Dengue patients.

Investigation the factors which influence self-medication practice among students of BSMRSTU: a mixed-methods study

Graph & Charts, Statistical Analysis, SPSS, STATA, Microsoft Excel

- Spearheaded data cleaning and modeling directly from field-collected raw data, ensuring accuracy and reliability.
- Led comprehensive data analysis utilizing SPSS and Excel, ensuring data integrity and reliability throughout the process.
- Applied advanced statistical methods including chi-square and binary logistic regression to identify significant factors influencing self-medication practices among students.
- Produced detailed reports with clear visualizations, contributing to evidence-based decision-making and project success.

Skills

Statistical Skills : Decision Making Methods, Research Data Analysis, **Regression Analysis, Testing Hypothesis**, AVONA, ANCOVA, Multivariate Analysis, Statistical Inference, **Data Visualization**, Time Series Forecasting.
Data Analysis Software : IBM SPSS, **STATA**, Microsoft Excel.
Research Related Soft Skills : Zotero, Mendeley, **Survey CTO, KOBO Toolbox**, Latex, Nvivo.
Research Type : Qualitative and Quantitative Research.
Programming Language : R & Python (Statistical Analysis & Visualization).

References

Prof. Syed Masud Ahmed
Director, Centre of Excellence for Health Systems
and Universal Health Coverage (CoE HS&UHC)
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Bir Uttam A K Khandakar Road, Dhaka-1212, Bangladesh.
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