

Mohammad Nayeem Hasan
Curriculum Vitae

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Education

- **Master of Science (M.S.)** in Statistics (with thesis), Shahjalal University of Science and Technology, Sylhet, Bangladesh (SUST), CGPA: 3.50/4.00, Passing year: 2018
- **Second Major** in Computer Science and Engineering, SUST, CGPA: 3.25/4.00, Passing year: 2016
- **Bachelor of Science (B.Sc.)** in Statistics, SUST, CGPA: 3.40/4.00, Passing year: 2016

Professional Experience

1. **Monitoring and Evaluation Officer** (Health and WASH), Green Hill, Cox's Bazar (Feb-23 to present)
Responsibilities: Participating in monitoring and evaluation of the Joint Rohingya Response Program (JRRP)
2. **Health Information System Officer**, Food for the Hungry, Cox's Bazar (Mar-22 to Feb-23)
Responsibilities: Preparing and submitting all types of JRRP health facility reports
3. **Management Information System Officer**, Partners in Health & Development (Feb-21 to Feb-22)
Responsibilities: Participating in monitoring, designing, assessing, learning, and implementing JRRP studies

Statistical Programming Language & Analytical Skills

Statistics, Biostatistics, forecasting & modeling using **R, Python, SPSS, SAS, and STATA**

Research Experience

1. Quantitative Measure of Healthy Aging in Sylhet City: A Frailty Index Approach, Sponsored by University Research Centre, **Role:** Research Assistant
2. Ground Water in the Vicinity of Sylhet City, Bangladesh: Assessment of Quality and Association Based on Multivariate Statistical Techniques, Sponsored by University Research Centre, **Role:** Research Assistant
3. Extent of Lifestyle and Heritability Effects on Cancer: Bangladesh Perspective, Sponsored by the University Research Centre, **Role:** Research Assistant

Publications

1. **Hasan MN**, et al. Two Decades of Endemic Dengue in Bangladesh (2000-2022): Trends, Seasonality, and Impact of Temperature and Rainfall Patterns on Transmission Dynamics. **J Med Entomol.** ([Link](#))
2. Haider N, Asaduzzaman M, **Hasan MN**, et al. Bangladesh's 2023 Dengue outbreak – age/gender-related disparity in morbidity and mortality and geographic variability of epidemic burdens. **IJID** ([Link](#))
3. Ghosh S, **Hasan MN**, et al. Progress towards one health approach for dog-mediated human rabies elimination in Bangladesh: on the way to zero by 30. (Under review: **The Lancet Regional Health**) (Pre-print: [Link](#))
4. Haider N, **Hasan MN**, et al. The 2022 dengue outbreak in Bangladesh: hypotheses for the late resurgence of cases and fatalities. **J Med Entomol.** ([Link](#))
5. **Hasan MN**, et al. Early childhood developmental status and its associated factors in Bangladesh: a comparison of two consecutive nationally representative surveys. **BMC Public Health.** ([Link](#))
6. Haider N, **Hasan MN**, et al. The disproportionate case–fatality ratio of COVID-19 between countries with the highest vaccination rates and the rest of the world. **IJID Regions.** ([Link](#))
7. **Hasan MN**, et al. Knowledge of HIV/AIDS among married women in Bangladesh: analysis of three consecutive multiple indicator cluster surveys (MICS). **AIDS Res Ther.** ([Link](#))
8. Islam MA, **Hasan MN**, et al. Association of household fuel with acute respiratory infection (ARI) under-five years children in Bangladesh. **Front Public Health.** ([Link](#))

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9. Sorowar HM, Siam MHB, **Hasan MN**, et al. Knowledge, attitude, and practice towards blood donation among residential students and teachers of religious institutions in Bangladesh - A cross-sectional study. **Heliyon** ([Link](#))
10. **Hasan MN**, et al. The Global Case-Fatality Rate of COVID-19 Has Been Declining Since May 2020. **Am J Trop Med Hyg.** ([Link](#))
11. **Hasan MN**, et al. Cesarean delivery and early childhood diseases in Bangladesh: An analysis of Demographic and Health Survey (BDHS) and Multiple Indicator Cluster Survey (MICS). **PLoS One.** ([Link](#))
12. Haider N, Yavlinsky A, Chang YM, **Hasan MN**, et al. The Global Health Security Index and Joint External Evaluation score for health preparedness are not correlated with countries' COVID-19 detection response time and mortality outcome. **Epidemiol Infect.** ([Link](#))
13. **Hasan MN**, et al. Assessment of groundwater quality in the vicinity of Sylhet City, Bangladesh: a multivariate analysis. **Sustain Water Resour Manag.** ([Link](#))
14. Ferdushi KF, Kamil AA, **Hasan MN**, et al. Factors Associated with Coronary Heart Disease among Elderly People in Different Communities. **Statistics for Data Science and Policy Analysis.** ([Link](#))
15. **Hasan MN**. A Comparison of Logistic Regression and Linear Discriminant Analysis in Predicting of Female Students Attrition from School in Bangladesh. **IEEE** ([Link](#))

Reviewer activities

Journal of Health, Population and Nutrition	Scientific Reports	BMC
Research in Health Services & Regions	PLOS Global Public Health	Plos One

Board Memberships, Professional Associations, and Affiliations

- Editorial board member, PLOS ONE (2023 to present)
- Editorial board member, Frontiers in Water (2023 to present)
- Biostatistician, Biostatistics, Epidemiology and Public Health Research Team (2023 to present)
- Researcher, Biomedical Research Foundation (2021 to present)

Conferences

1. **Oral presentation** on “Global case-fatality rate of COVID-19 is declining since May 2020” at the “World One Health Congress 2020” Conference.
2. **Oral presentation** on “A Comparison of Logistic Regression and Linear Discriminant Analysis in Predicting of Female Students Attrition from School in Bangladesh” at the “Electrical Information & Communication Technology 2019” Conference”.
3. **Oral presentation** on “Association between exclusive breastfeeding and common childhood diseases in Bangladesh” in the “Data Science and SDGs: Challenges, Opportunities, & Realities 2019” Conference.

Mentorship experience

1. “**Workshop on Data Analysis Using SPSS**” organized by OGIVE Analytics
2. “**Statistics and Data Analysis for Research**” which is under the “Autumn 2020 Research Internship Program” organized by Chittagong University Research and Higher Study Society
3. “**Workshop on Data Analysis Using SPSS**” organized by SUST Science Arena

Training participations

“ R for Bioinformatics ” by CHIRAL	“ Professional Report Writing Skills ” by BDJOBS
“ Astronomical Data Analysis ” by CAM_SUST	“ Research Techniques on Social Sciences ” by URC

Test Scores

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| • IELTS Score: 6.5 (L:6.5, R:7, W:5.5, S:6.5) | • GRE Score: 289 (V: 136, Q: 153, AW: 3) |
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