Curriculum Vitae

Mohammad Nayeem Hasan

1st floor, Rahib Mansion, Uttar Dikkul, Cox's Bazar Sadar, Cox's Bazar, Bangladesh
E-mail: nayeem5847@gmail.com (personal), nayeem@ghcxb.org (professional), **Cell:** +8801671912637
Web of Science, Google Scholar, ResearchGate, LinkedIn

Education

- **Master of Science (M.S.)** in Statistics, Shahjalal University of Science and Technology, Sylhet, Bangladesh **(SUST)**, 2018, **Dissertation:** Assessment of Ground Water Quality in the Vicinity of Sylhet City, Bangladesh: A Multivariate Analysis
- **Bachelor of Science (B.Sc.)** in Statistics, SUST, 2016
  - **Second Major** in Computer Science and Engineering **(Double Major)**, SUST

Professional Experience, Joint Rohingya Response (Humanitarian) Program (JRP)

1. **Monitoring and Evaluation Officer** (Health), Green Hill, Cox's Bazar (Feb-2023 to present)
Responsibilities: Participating in monitoring, evaluation, and research activities
2. **Health Information System Officer**, Food for the Hungry, Cox's Bazar (Mar-2022 to Feb-2023)
Responsibilities: Preparing and submitting all types of qualitative and quantitative health facility reports
3. **Management Information System Officer**, Partners in Health & Development (Feb-2021 to Feb-2022)
Responsibilities: Participating in monitoring, designing, and assessing health projects

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Statistical Programming Language & Analytical Skills

- Analytical skills with **R, Python, SPSS, SAS, and STATA** (https://github.com/smnhasan)
  - Research methodology, machine learning, data mining, regression analysis, forecasting, multivariate techniques, survival analysis parametric, nonparametric analysis, etc.
- Skilled in **MS Office, Pivot Table, Kobo Toolbox & Power BI**

Research Experience (Projects), associated with University Research Center, SUST

1. **Research Assistant,** Vicious Cycle of Poverty in Haor Region of Bangladesh: Impact of Formal and Informal Credit, Sponsored by the Ministry of Education under the Grant of Advanced Research in Education (GARE), **Duration:** Jul 2020 - Dec 2020
2. **Research Assistant,** Effectiveness of Some Selected Promotional Social Safety Nets Programs in Bangladesh: Formulation for Future Strategies, Financed by The Social Science Research Council, Planning Division, Ministry of Planning, Government of Bangladesh, **Duration:** Jan 2020 - Jun 2020
3. **Research Assistant,** Reducing the Errors in the Measurement of Food Security in Bangladesh through Development and Implementation of an Innovative Method, Sponsored by The Ministry of Education, Government of Bangladesh under GARE, **Duration:** Jan 2019 - Jun 2019

Publications (Journal)

1. 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. ***The Lancet Regional Health - Southeast Asia*** 2024

2. **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*** 2024

3. Haider N, Asaduzzaman M, **Hassan MN**, *et al.* Bangladesh's 2023 Dengue outbreak – age/gender-related disparity in morbidity and mortality and geographic variability of epidemic burdens. ***International Journal of Infectious Diseases*** 2023

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*** 2023

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*** 2023

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*** 2023

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*** 2022

8. **Hasan MN**, *et al.* The Global Case-Fatality Rate of COVID-19 Has Been Declining Since May 2020. ***Am J Trop Med Hyg*** 2021

9. **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*** 2020;

10. **Hasan MN**, *et al.* Assessment of groundwater quality in the vicinity of Sylhet City, Bangladesh: a multivariate analysis. ***Sustain Water Resour Manag*** 2020

11. 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*** 2020

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 & Frontiers in Water (2023 to present)
- **Biostatistician**, Biostatistics, Epidemiology and Public Health Research Team (2023 to present)
- **Team Leader,** Research & Reporting Team, UNITY Bangladesh (2022 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

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