

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@cpi-ypsa.org (professional), Cell: +8801671912637

Web of Science: <https://www.webofscience.com/wos/author/record/G-9469-2019>

LinkedIn: <https://www.linkedin.com/in/nayeem5847/> Website: <https://nayeemlab.github.io/>

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 Experiences, Joint Rohingya Response (Humanitarian) Program

1. **Monitoring and Evaluation Officer**, Community Partners International, 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

Statistical Programming Language & Analytical Skills

- Analytical skills with **R, Python, SPSS, SAS, and STATA** (<https://github.com/nayeemlab>)
 - 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 Experiences (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, **Grant:** Tk. 15,00,000.00

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, **Duration:** Jan 2020 - Jun 2020, **Grant:** Tk. 6,00,000.00

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, **Grant:** Tk. 18,00,000.00

Publications (Journal)

1. Haider N, **Hasan MN**, et al. Global Landmark: 2023 Marks the Worst Year for Dengue Cases with Millions Infected and Thousands of Deaths Reported. *IJID Regions* 2024

2. Ghosh S, **Hasan MN**, et al. Rabies control in Bangladesh and prediction of human rabies cases by 2030: a One Health approach. *The Lancet Regional Health - Southeast Asia* 2024

3. Ullah MA, Mim AS, **Hasan MN**, et al. Deep Learning Based Forecasting Models of Dengue Outbreak in Bangladesh: Comparative Analysis of LSTM, RNN, and GRU Models Using Multivariate Variables with a Two-Decade Dataset. *IEEE* 2024

4. **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

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5. 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
6. **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
7. 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
8. **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
9. **Hasan MN**, *et al.* The Global Case-Fatality Rate of COVID-19 Has Been Declining Since May 2020. *Am J Trop Med Hyg* 2021
10. **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
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 experiences

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**” 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

Extra Co-curricular Activities

Clean-up Campaign: “DESHTAKE PORISHKAR KORI (Let’s clean-up the country)”	Campus Ambassador , SUST, Worldwide Organization for Charity & English Olympiad
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