Curriculum Vitae

Mohammad Nayeem Hasan

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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: 2017
- **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 program
2. **Health Information System Officer**, Food for the Hungry, Cox's Bazar (Mar-22 to Feb-23)
Responsibilities: Preparing and submitting all types of health facility qualitative and quantitative reports
3. **Management Information System Officer**, Partners in Health & Development (Feb-21 to Feb-22)
Responsibilities: Participating in monitoring, designing, assessing, learning, and implementing studies
4. **Project Supervisor and Data Analyst**, MAMOTA Project, Save the Children (Jul-19 to Dec-19)
Responsibilities: Managed survey and analyze data of maternal, newborn health, and family planning services

Statistical Programming language and 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. 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.**
2. 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. **Res Sq. (preprint)**
3. **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. **medRxiv. (preprint)**
4. Sangkham S, Islam MA, Sarndhong K, Vongruang P, **Hasan MN**, et al. Effects of fine particulate matter (PM2.5) and meteorological factors on the daily confirmed cases of COVID-19 in Bangkok during 2020–2021, Thailand. **Case Studies in Chemical and Environmental Engineering.**
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.**
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.**
7. Islam MdA, Hemo M k., Marzan A Al, Arman MdS, **Hasan MN**, et al. A short communication of 2022 dengue outbreak in Bangladesh: a continuous public health threat. **Annals of Medicine and Surgery.**

8. 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.**

9. Islam MA, Ahammed T, Noor STA, **Hasan MN**, et al. An Estimation of Five-decade Long Monkeypox Case Fatality Rate: Systematic Review and Meta-analysis. **J Pure Appl Microbiol.**

10. **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.**

11. Islam MA, **Hasan MN**, et al. Association of household fuel with acute respiratory infection (ARI) under-five years children in Bangladesh. **Front Public Health.**

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

13. **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.**

14. 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.**

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

16. 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.**

Editorial Board Member: PLOS ONE and Frontiers in Water

Reviewer activities

Frontiers in Public Health	Scientific Reports	BMC Public Health	PLOS ONE
Journal of Health, Population and Nutrition	BMC Research Notes	BMC Pediatrics	Qeios
Research in Health Services & Regions	Dialogues in Health	BMC Cancer	

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

1. **"R for Bioinformatics"** by CHIRAL	3. **"Professional Report Writing Skills"** by BDJOBS
2. **"Astronomical Data Analysis"** by CAM_SUST	4. **"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)