

# Curriculum Vitae

## Mohammad Nayeem Hasan

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### Education

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- **Master of Science (M.S.)** in Statistics (with thesis), Shahjalal University of Science and Technology, Sylhet, Bangladesh (SUST), Passing year: 2018
- **Second Major** in Computer Science and Engineering, SUST, Passing year: 2017
- **Bachelor of Science (B.Sc.)** in Statistics, SUST, Passing year: 2016

### Professional Experience

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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

### Research Experience

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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

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1. 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. **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 (PM<sub>2.5</sub>) 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**.

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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

1. PLOS ONE	2. Frontiers in Water
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### 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

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| 1. “ <b>R for Bioinformatics</b> ” by CHIRAL  | 3. “ <b>Professional Report Writing Skills</b> ” by BDJOBS                   |
| 2. “ <b>Astronomical Data Analysis: Introduction &amp; How it Works</b> ” by CAM_SUST | 4. “ <b>Research Techniques on Social Sciences</b> ” by SUST Research Center |