

Md. Jubayer Hossain

FOUNDER, MANAGEMENT LEAD & DATA ANALYST

Center for Health Innovation, Research, Action, and Learning - Bangladesh

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Research Experiences

Center for Health Innovation, Research, Action, and Learning - Bangladesh

Founder, Management Lead & Data Analyst

Dhaka, Bangladesh

June 2020 - Present

As the Founder & Management Lead at CHIRAL, I was responsible for establishing and leading the organization's efforts to advance health innovation, research, action, and learning in Bangladesh.

Key responsibilities:

- Developing the organization's vision, mission, and strategy
- Securing funding and partnerships
- Building and managing the team
- Overseeing program delivery
- Representing the organization
- Designing and implementing public health projects
- Writing and managing grant applications, projects with Dr. Syeda Tasneem Towhid and Dr. Abul Kalam Azad

International Centre for Diarrhoeal Disease Research, Bangladesh

Research Intern, Health Systems and Population Studies Division

Dhaka, Bangladesh

February 2022 - June 2022

I was a research intern of the Health Systems and Population Studies Division at International Centre for Diarrhoeal Disease Research, Bangladesh, focusing on mental health.

Key responsibilities:

- Assisted PI in designing and implementing studies on mental health in Bangladesh
- Conducted literature reviews and data analysis to support research projects
- Participated in fieldwork, including data collection and data entry
- Developed keywords and biomedical database search strategy for systematic reviews
- Presented research findings at internal meetings and contributed to the writing of research reports and manuscripts

Bio-Bio-1: Bioinformatics Research Discussion Group

Team Member, Bioinformatics Group

Dhaka, Bangladesh

February 2017 - June 2019

I was an active team member of Bio-Bio-1 providing support across different bioinformatics training programs at the organization. Some of the functions of the role included:

- Pursued learning opportunities to advance knowledge and take on leadership position
- Contributed to team design training modules and connect preparation

Academic Credentials

Jagannath University

Master of Science in Microbiology

Dhaka, Bangladesh

January 2019 - January 2020

Jagannath University

Bachelor of Science in Microbiology

Dhaka, Bangladesh

January 2016 - January 2019

Publications

1. Towhid, S. T., **Hossain, M. J.**, Sammo, M. A. S., & Akter, S. (2022). Perception of Students on Antibiotic Resistance and Prevention: An Online, Community-Based Case Study from Dhaka, Bangladesh. *European Journal of Biology and Biotechnology*, 3(3), 14–19. <https://doi.org/10.24018/ejbio.2022.3.3.341>
2. **Hossain, M.J.**, Towhid ST, Sultana S, Mukta SA, Gulshan R, Miah MS (2022). *Knowledge and Attitudes towards Thalassaemia among Public University Students in Bangladesh*. *Microbial Bioactives*, 5(2), <https://doi.org/10.25163/microbbioacts.526325>.

Papers Under Review

1. **Hossain, M.J.**, Towhid, S. T., Akter, S., Shahjahan, M., Roy, T., Akter, B., & Nodee, T. A. (2022). *Self-Management of Diabetic Patients from the Urban Areas in Bangladesh*. medRxiv - <https://doi.org/10.1101/2022.08.23.22279128> (Under Review; PLOS Global Public Health)
2. **Hossain, M.J.**, Md Wahidul Islam, Rukaiya Umami Moon, Rubaiya Gulshan, Sumaiya Akter Mukta, Mousumi Karmakar, Sabia Sultana, Md. Sharif Miah, Md. Ariful Islam (2023). *Quality of Life among Bangladeshi Patients with Thalassemia using the SF-36 Questionnaire*. ResearchSquare- <https://doi.org/10.21203/rs.3.rs-2528887/v1> (Submitted to Scientific Reports)

Conferences

1. Mesbah UMR Nayeem, Muslima Aktar Mrittika, **Hossain, M.J.**, Abul Kalam Azad, Jannatul Ferdous, Salma Ahmed, Santonu Kumar Sanyal, Syeda Tasneem Towhid (2023). *Quantitative Microbial Risk Assessment from Vancomycin-resistant Enterococcus faecalis and Enterococcus faecium from a specific neighbourhood in Dhaka City, Bangladesh*. Bangladesh Society of Microbiologists, 36th BSM Annual Conference
2. Abul Kalam Azad, Jannatul Ferdous, Syeda Tasneem Towhid, Md. Shahadat Bin Shahid, **Hossain, M.J.** (2023). *Isolation and Antibiotic Susceptibility Pattern of Bacteria from Patients with Urinary Tract Infections*. Bangladesh Society of Microbiologists, 36th BSM Annual Conference.
3. Manisha Das, Abul Kalam Azad, Ashok Kumar Barman, Nafisa Anjum Holy, Nargees Akter, **Hossain, M.J.**. *Experiences and Side Effects Following COVID-19 Vaccination in Bangladesh: a cross-sectional community-based e-survey* Bangladesh Society of Microbiologists, 36th BSM Annual Conference
4. Sumona Akter, Atik Shahriar Sammo, Syeda Tasneem Towhid, **Hossain, M.J.** (2023). *Perception of Students on Antibiotic Resistance and Prevention: An Online, Community-Based Case Study from Dhaka, Bangladesh*. Bangladesh Society of Microbiologists, 36th BSM Annual Conference

Working Papers

1. **Hossain, M.J.**, Abul Kalam Azad, Md. Wahidul Islam, Muhibullah Shahjahan (2022). Factors influencing knowledge of antibiotic usage among patients of school-going children.
2. **Hossain, M.J.**, Abul Kalam Azad, Md. Atik Shahriar Sammo (2022). A KAP Study on the Impact of C-section on Infant Gut Microbiota among Public University Students in Bangladesh
3. **Hossain, M.J.**, Towhid, S. T., Abul Kalam Azad, Manisha Das, Wahidul Islam, Muhibullah Shahjahan (2022). The role of community participation and social engagement in the prevention and control of dengue fever in Dhaka City.
4. **Hossain, M.J.**, Towhid, S. T., Abul Kalam Azad, Manisha Das, Wahidul Islam, Muhibullah Shahjahan, Jannatul Ferdous Shonali (2022). Clinical Presentation of Dengue Patients in Dhaka City

Skills

- **Programming Languages:** SQL, Python, R, Julia, JavaScript
- **Big Data Frameworks:** Dask, PySpark
- **Bioinformatics:** NGS, RNASeq, ssRNASeq
- **Analytics Softwares:** SPSS, PowerBI, Microsoft Excel
- **Survey Tools:** RedCap, KoboToolBox, EpiCollect, Google Forms
- **Miscellaneous Skills:** UNIX, Version Control(Git), Web Scraping, APIs, Visualizations

Teaching Experience

Jagannath University, Dhaka

Teaching Assistant, Department of Microbiology

Website

October 2022 - December 2022

Key responsibilities:

- Assisting the instructor in preparing and delivering lessons
- Grading assignments and providing feedback to students
- Holding office hours and providing individual or group tutoring
- Preparing and setting up materials for class activities and projects
- Supervising students in a data collection
- Supporting students with special needs

Research Internship Program

Lead Organizer & Instructor

Course Website

January 2023 - Present

CHIRAL Bangladesh offers education and research opportunities through our Research Intern Program in STEM fields. The duration of the internship is typically from 1 to 3 months. These short-term placements allow students to gain research experience or learn a specific technique. Interns will work under a mentor's direction and contribute to the organization's R&D and the specific research activities of CHIRAL Bangladesh.

Key responsibilities:

- Developing the program structure and curriculum
- Recruiting and training mentors
- Coordinating program logistics
- Facilitating program delivery
- Evaluating the program

Health Research ToolBox: A Step by Step Guide for Beginners

Lead Organizer & Instructor

Course Website

June 2021 - Present

Health Research ToolBox: A Step by Step Guide for Beginners is a comprehensive training program designed to introduce beginners to the essential tools and techniques for conducting health research. This program provides participants with a hands-on experience and offers a step by step guide to conducting effective health research.

Key responsibilities:

- Developing the course curriculum and materials
- Recruiting and training instructors
- Coordinating course logistics
- Facilitating course delivery
- Evaluating the program

References

Syeda Tasneem Towhid, Ph.D.

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Abul Kalam Azad, Ph.D.

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