Muhibullah Shahjahan

Graduate Student
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Experiences

Center for Health Innovation, Research, Action, and Learning – Bangladesh
Dhaka, Bangladesh

Research Assistant
June 2022 - Present

- Conducting literature reviews to gather information on relevant research studies and findings related to the project.
- Assisting in the collection of data through various methods such as surveys, interviews, experiments, observations, or archival research.
- Assisting in data analysis using statistical software or other analytical tools under the supervision of senior researchers.

Center for Health Innovation, Research, Action, and Learning – Bangladesh
Dhaka, Bangladesh

Tech Associate
November 2021 - Present

- Providing technical assistance and support to organization, troubleshooting issues, and resolving problems related to hardware, software, or systems.
- Supporting system administrators in tasks related to the maintenance, configuration, and optimization of computer systems, networks, servers, and other infrastructure components.

Center for Health Innovation, Research, Action, and Learning – Bangladesh
Dhaka, Bangladesh

Training Coordinator
June 2022 - January 2023

- Handling the enrollment process to make easier for participants.
- Check and distribute training materials.
- Assist instructors with logistics.
- Track participants attendance in training sessions.
- Collect and process feedback from participants

Center for Health Innovation, Research, Action, and Learning – Bangladesh
Dhaka, Bangladesh

Program Coordinator
May 2023 - January 2024

- Application Processing, collecting application materials, screening resumes and cover letters
- Communication, sending emails to interns and supervisors with updates, reminders, and important information
- Maintaining program documents, keeping track of intern paperwork, such as timesheets and evaluations.
- Scheduling meetings and events,involved intern's training sessions, networking events, or meetings with supervisors.

Education and Training

Jagannath University
Dhaka, Bangladesh

Bachelor of Science in Microbiology
January 2020 - Running

- Trying to achieve the highest result in the academics
- Focusing on to identify my subject of interest for further more study
- Completed research project entitled: An Inquisitive Analysis of Driver and a Suppressor Genes Expression as Biomarker in Liver Hepatocellular Carcinoma

Research and Integrated Thought Ltd. (RIT)
Dhaka, Bangladesh

Fundamental Research Course
August 2023 - September 2023

- Why research?, Research Problems and Hypothesis, Literature Review Tips and Techniques, Types of Research Methods, Sampling and data collection
- How to access E-resources for research, Use of MS Word and Excell for writing a Research paper, Citation, referencing and plagiarism
- Types of research papers and find out suitable journals for my manuscript, Writing a quality paper, Writing a research proposal-1

Center for Health Innovation, Research, Action, and Learning – Bangladesh
Dhaka, Bangladesh

Health Researh Toolbox
March 2022 - May 2022

- Learnt the principle of Research, Research Ethics
- Data collection tools
- Basic to intermedial knowledge of biostatistics
- Data analysis with R

Center for Health Innovation, Research, Action, and Learning – Bangladesh
Dhaka, Bangladesh

Python for Biologists
August 2020 - September 2020

- Learnt the basic python syntex, data types and conversions, data types and conversions
- Making decisions and using loops, the functions and methods that deal with data types, opening, creating, reading and writing files
- Working with the operating system, Creating your own functions
- How to work with different python packages for data manupulation, visualization

Teaching Experience

Center for Health Innovation, Research, Action, and Learning – Bangladeh *Dhaka, Bangladesh*

Instructor *August 2023 - Present*

- Organize course content
- Plan Engaging Activities to keep participants actively involved and attentive
- Try to demonstrate key concept
- Provide resources and support

Technical Skills

Programming Languages: Python, R; **Analytics Softwares:** SPSS, Microsoft Excel; **Survey Tools:** RedCap, KoboToolBox, Google Forms; **Academic Writing Tools:** Microsoft Word, LaTeX, Mendeley, Zotero.

Publications

Journal Articles

Islam, M.W., **Shahjahan, M.**, Azad, A.K., Hossain, M. J. Factors contributing to antibiotic misuse among parents of school-going children in Dhaka City, Bangladesh. Sci Rep 14, 2318 (2024). https://doi.org/10.1038/s41598-024-52313-y

Hossain, M.J., Das, **Shahjahan, M.,**, M.,Islam, M.W., Towhid, S.T. Clinical and hematological manifestation of dengue patients in 2022 outbreak: A tertiary care hospital-based study (2025). https://doi.org/10.1002/hsr2.70356

Hossain MJ, Das M, Islam MW, **Shahjahan, M.**, Ferdous J. Community engagement and social participation in dengue prevention: A cross-sectional study in Dhaka City. Health Sci Rep. 2024; 7:e2022. https://doi.org/10.1002/hsr2.2022

Hossain MJ, Azad AK, Shahid MSB, **Shahjahan, M.**, Ferdous J. Prevalence, antibiotic resistance pattern for bacteriuria from patients with urinary tract infections. Health Sci Rep. 2024; 7:e2039. https://doi.org/10.1002/hsr2.2039

Hossain, M.J., Towhid, S. T., Akter, S., **Shahjahan, M.**, Roy, T., Akter, B., & Nodee, T. A.(2023). Knowledge and Self-Management Practice Among Diabetic Patients from the Urban Areas in Bangladesh, Journal of Angiotherapy, 7(1), 1-10, https://doi.org/10.25163/angiotherapy.717340

Under Review

Hossain, M.J., Shahariar, M., Barsha, LHJ., **Shahjahan, M.**, Towhid, ST., Sheikh, MK., Hasan, MM., Rahman, MH., Sazid, MS.(2024). Lack of knowledge and training about antibiotic resistance among community pharmacists in Bangladesh: a cross-sectional study.Preprints 2024, https://www.researchsquare.com/article/rs-4344597/v1 (Submitted to Scientific Reports)

In Preparation

Hossain, M.J., Hasan, M. T., ffat, N., Maruf, M.F., Das, M., Akter, M.M., **Shahjahan, M.**, Islam, W.(2023).Depression, Anxiety, and Stress with Associated Factors among Bangladeshi University Students.

Akter, S., M., Islam, M. W., **Shahjahan, M.**, Faria, F.T.J.,(2023).Hossain, M.J. Structural and Functional Analysis of Hypothetical Protein HG570_03930 of Helicobacter Pylori: An In-Silico Approach.

Hossain, M.J., **Shahjahan, M.**, Hasan, MM. Two out of five babies are born through c-section in Bangladesh: an urgent call for healthcare policy reforms.

Conferences

Poster Presentations

Islam, M.W., Fariha F.T.J., Ahmed , M.Z., Ferdous, J., Bhuiyan, H., Hossain, M.S., Kundu, P., **Shahjahan, M.**, Akter, S., Hossain, M.J., – Multi Omics Analysis of CDK1 and CDK6 Expression and Prognostic Significance in Breast Cancer. International Conference of Public Health, IEDCR, 2024.

Biswas, T., Bhuiyan, H., Akter, N., Fattah, N.A., Zaman, K., Nitu,N.R., **Shahjahan, M.**, Hossain, M.J. - An Inquisitive Analysis of Driver Genes Expression and Biomarker in Liver Hepatocellular Carcinoma. International Conference of Public Health, IEDCR, 2024.

Islam, M.W., Fariha, F.T.J., Ahmed, Z., Biswas, T., Bhuiyan, H., Mahima, J.F., **Shahjahan, M.**, Hossain, M.J,. ⊠ Identifying EN2 as a Promising Therapeutic Target for Glioblastoma multiforme: A multi Omics approach. BCSIR Congress 2023.

Islam, M.W., **Shahjahan, M.**, Azad, A.K., Hossain, M.J. ⊠ Factors contributing to antibiotic misuse among parents of school⊠going children in Dhaka City, Bangladesh. 9th International Public Health Conference by Public Health Foundation at Bangladesh Medical Research Council, Bangladesh, 2023.

Hossain, M.J., Das, M., **Shahjahan, M.**, Islam, M.W.,Ferdous,J., Towhid, S.T., Community Engagement and Social Participation in Dengue Prevention: A Cross-Sectional Study in Dhaka City. 9th International Public Health Conference by Public Health Foundation at Bangladesh Medical Research Council, Bangladesh, November 2023.

Hossain, M.J., Das, M.,**Shahjahan, M.**, Islam, M.W.,Ferdous,J., Towhid, S.T., Clinical and hematological manifestation of dengue patients in 2022 outbreak: A tertiary care hospital-based study. 9th International Public Health Conference by Public Health Foundation at Bangladesh Medical Research Council, Bangladesh, November 2023.

Courses and Workshops

2023-24 **R for Research**: Instructor (CHIRAL, Bangladesh)
The purpose of this course is to critically examine and explore the ethical considerations surrounding the utilization of Large Language Models (LLMs) in the context of biomedical research, addressing potential implications, biases, and responsible deployment to ensure ethical and equitable advancements in healthcare.

2023-24 **Data Analysis with R**: Instructor (CHIRAL Bangladesh, Bangladesh)
The purpose of this course is to provide a practical introduction to the programming language R for researchers in any field.

2023-24 **Cancer Bioinformatics**: Instructor (CHIRAL Bangladesh, Bangladesh)
The objective of Cancer Bioinformatics course is to teach the application of computational methods to analyze cancer-related biological data for advancing research and treatment.

References

Syeda Tasneem Towhid, Ph.D. *Dhaka, Bangladesh*
Associate Professor, Department of Microbiology, Jagannath University, Dhaka *Research Supervisor*
- Email: towhidst@mib.jnu.ac.bd

Md. Salequl Islam, Ph.D. *Dhaka, Bangladesh*
Professor, Department of Microbiology, Jahangirnagar University, Dhaka *Research Collaborator*
- Email: salequl@gmail.com