

## RESEARCH EXPERIENCE

- 2022 – on **Research Intern**  
International Centre for Diarrhoeal Disease Research, Bangladesh  
Health Systems and Population Studies Division  
Dhaka, Bangladesh
- 2020 – on **Data Analyst**  
Center for Health Innovation Research, Action, and Learning – Bangladesh  
Population Health Studies Division  
Dhaka, Bangladesh

## ACADEMIC CREDENTIALS

- 2019 – 2020 **Master of Science in Microbiology**, Jagannath University, Dhaka-1100, Bangladesh
- 2016 – 2019 **Bachelor of Science in Microbiology**, Jagannath University, Dhaka-1100, Bangladesh

## RESEARCH INTERESTS

Machine Learning, Genomic Epidemiology, Quality of Life, Health Data Science

## PUBLICATIONS

### Peer-reviewed Papers

- 2022 Hossain, M. J., Syeda Tasneem Towhid, Bithi Akter, Atik Shahriar Sammo(2022). **"Perception of Students on Antibiotic Resistance and Prevention: An Online,Community-Based Case Study from Dhaka,Bangladesh."**, *European Journal of Biology and Biotechnology*, doi:10.24018/ejbio.2022.3.3.341, [doi.org/https://doi.org/10.24018/ejbio.2022.3.3.341](https://doi.org/10.24018/ejbio.2022.3.3.341)

### Papers Under Review

- 2022 Kamrun Nahar Koly, Jobaida Saba, Hossain, M. J., K M Saif-UR-Rahman, Mansura Islam, Anan Nishat Nabela Hossain, Tariq Tariq, Warren Warren(2022). **"Interventions to Improve the Mental Health among Intimate Partner Violence Survivors in Low and Middle-income countries: A Systematic Review Protocol"**, *BMJ Open*
- 2021 Hossain, M. J., Syeda Tasneem Towhid, Sabia Sultana, Sumaiya Akter Mukta, Rubaiya Gulshan, Md. Sharif Miah(2022). **"Knowledge and Attitudes of Thalassemia among Public University Students in Bangladesh."** *Journal of Biomedical Science*
- Hossain, M. J., Md. Wahidul Islam, Sabia Sultana, Moushumi Karmakar, Jannatul Ferdous, Sumaiya Akter Mukta, Rubaiya Gulshan, Md. Sharif Miah(2022). **"Quality of Life among Bangladeshi Patients with Thalassemia using the SF-36 Questionnaire."**
- Hossain, M. J., Syeda Tasneem Towhid, Sabia Sultana, Manisha Das, Ashok Kumar Barman, Nafisa Anjum Holy(2022). **"Experiences, Side Effects, and Opinions Following COVID-19 Vaccination in Bangladesh: a cross-sectional community e-survey in Bangladesh."**

Hossain, M. J, Syeda Tasneem Towhid, Sumona Akter, Atik Shahriar Sammo, Muhibullah Shahajahan, Bithi Akter(2022). **"Self Management And Knowledge of Diabetic Patients in Bangladesh and the Prevalence rate of Diabetes."**

Hossain, M. J, Sabia Sultana, Md. Wahidul Islam, Bithi Akter, Tanjum Ahmed Nodee(2022). **"The Effects of Distance Learning on the Health of Bangladeshi High School Students during the COVID-19 Pandemic: An Exploratory Study."**

Hossain, M. J, Sabia Sultana, Atik Shahriar Sammo, Bithi Akter, Tanjum Ahmed Nodee, Sanjida Sathy, Susmita Jahan(2022). **"Impact of Distance Learning on Students' Health of the Faculty of Science of Jagannath University, Dhaka, Bangladesh during COVID-19 Pandemic: An Exploratory Study"**

## Working Papers




2022 Kamrun Nahar Koly, Jobaida Saba, Hossain, M. J, K M Saif-UR-Rahman, Mansura Islam, Anan Nishat Nabela Hossain, Tariq Tariq, Warren Warren(2022). **"Interventions to Improve the Mental Health among Intimate Partner Violence Survivors in Low and Middle-income countries: A Systematic Review"**

Hossain, M. J, Syeda Tasneem Towhid, Manisha Das, Nafisa Anjum Holy, Jannatul Ferdous(2022). **"Knowledge, Attitudes, and Practice regarding Thalassemia Among High School Students in Bangladesh"**

Hossain, M. J, Syeda Tasneem Towhid, Manisha Das, Nafisa Anjum Holy, Jannatul Ferdous(2022). **"Knowledge, Attitudes, and Practices among University Students regarding the Concept of Safe Marriages for Thalassemia Prevention in Bangladesh"**

## PROJECTS

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2020 Heart Disease Analysis and Prediction Using Machine Learning.  
Code:  [github.com/hossainlab/Heart-Study](https://github.com/hossainlab/Heart-Study)  
Calories Burn Prediction using Machine Learning.  
Code:  [github.com/hossainlab/Calories-Burnt](https://github.com/hossainlab/Calories-Burnt)  
Hepatitis Mortality Prediction using Machine Learning.  
Code:  [github.com/hossainlab/Hepatitis-Mortality](https://github.com/hossainlab/Hepatitis-Mortality)

## TEACHING EXPERIENCE

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2020 – on **Instructor**  
Center for Health Innovation Research, Action, and Learning – Bangladesh  
Health Data Science Center, Genomic Data Science Center  
Dhaka, Bangladesh

2016 – 2019 **Instructor**  
Whitehope Academy  
Chemistry  
Azimpur, Dhaka, Bangladesh

## CURRENT TEACHING

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- 2022 – on Undergraduate Research Training Program(URTP)  
 Role: 👤 Lead Organizer & Instructor  
 Course Website: <https://urtp.chiralbd.org/>
- 2022 – on Introduction to Genomic Data Science with R  
 Role: 👤 Lead Organizer & Instructor  
 Course Website: <https://gds.chiralbd.org/>
- 2021 – on Health Research ToolBox: A Step by Step Guide for Beginners  
 Role: 👤 Lead Organizer & Instructor  
 Course Website: <https://hrt.chiralbd.org/>
- 2021 – on Python for Life Sciences - A Step by Step Guide for Life Scientists  
 Role: 👤 Lead Organizer & Instructor  
[github.com/hossainlab/PY4LS](https://github.com/hossainlab/PY4LS)
- 2021 – on Python for Health Data Analytics  
 Role: 👤 Lead Organizer & Instructor  
[github.com/chiraleducation/PY4HDA](https://github.com/chiraleducation/PY4HDA)
- 2020 – 2021 Introduction to Scientific Computing for Biologists  
 Role: 👤 Lead Organizer & Instructor  
[github.com/chiraleducation](https://github.com/chiraleducation)

## AFFILIATIONS

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- 2020 – on **Founder**  
 Center for Health Innovation Research, Action, and Learning – Bangladesh  
 A non-profit health research organization in Bangladesh  
 Dhaka, Bangladesh
- 2016 – 2019 **Team Member**  
 Bio-Bio-1  
 Bioinformatics Research Group  
 Paribagh, Dhaka, Bangladesh

## COMPUTATIONAL SKILLS

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- **Programming Languages:** Python, R, SQL, Julia, JavaScript
- **Statistical Softwares:** SPSS, Google Sheets
- **Survey Tools:** RedCap, KoboToolBox, Google Forms
- **Tools & Softwares:** L<sup>A</sup>T<sub>E</sub>X, UNIX, Git, Github
- **Literature Review Tools:** Covidence, Rayans, NestedKnowledge, ASReview

## REFERENCES

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**Syeda Tasneem Towhid, Ph.D**  
*Assistant Professor*  
*Department of Microbiology*  
 Jagannath University, Dhaka-1100  
[towhidst@mib.jnu.ac.bd](mailto:towhidst@mib.jnu.ac.bd)

**Sabia Sultana**  
*Assistant Professor*  
*Department of Microbiology*  
 Jagannath University, Dhaka-1100  
[contact.sabiasultana@gmail.com](mailto:contact.sabiasultana@gmail.com)