

# Md. Jubayer Hossain

Azimpur, 7/A, Dhaka – Bangladesh

☎ +8801771083855 • ✉ b150605021@mib.jnu.ac.bd • 🌐 <https://jhossain.me/>

## ACADEMIC CREDENTIALS

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- **Master of Science** [On Going]  
*Department of Microbiology, Jagannath University, Dhaka*
- **Bachelor of Science** [Jan 2015–Jan 2019]  
*Department of Microbiology, Jagannath University, Dhaka*  
*GPA: 3.15/4.00*

## WORK EXPERIENCE

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- **Lead Organizer and Instructor, [Introduction to Scientific Computing for Biologists](#)** [Nov 2020 - Present]  
Introduction to Scientific Computing for Biologists is an introductory course organized by Health Data Research Organization, Bangladesh. My team members and I design this course to help undergrad students interested in genomics and public health research. Here I taught the basics of Python, R programming, Biostatistics, and Bioconductor.
- **Instructor, [Whitehope](#)** [July 2016 - June 2020]  
I provided comprehensive tutoring in Physics and Chemistry to the students of 10th, 11th, and 12th grade.
- **Team Member, [Bio-Bio-1](#)** [June 2017 - Jan 2019]  
I was an active participant in their weekly study circle and learned a lot from them; especially, I learned bioinformatics techniques with the help of Python.

## RESEARCH

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1. Syeda Tasneem Towhid, **Md. Jubayer Hossain**, Sumona Akter, Md. Atik Shariar Sammo (2020). Perception of Students on Antibiotic Resistance and Prevention: An internet-based community case study from Dhaka, Bangladesh. [In Preparation]
2. Dr. Md. Kamrujjaman, Alamgir Hossain Tanjim, **Md. Jubayer Hossain** (2021). A survey on the general concept of diabetes among students of different universities in Bangladesh. [In Preparation]
3. Syeda Tasneem Towhid, **Md. Jubayer Hossain**, Sumona Akter, Md. Atik Shariar Sammo, Sharif Hossain, Sumaiya Akter Mukta, Morsheda Munia, Mohammad Nahian (2021). Public Perception on the Spread of Antibiotic Resistance in Bangladesh. [In Preparation]
4. **Md. Jubayer Hossain**, Sumona Akter, Md. Atik Shariar Sammo, Shahid Hasan Munzur (2021). Self Management And Knowledge of Diabetic Patients in Bangladesh and the Prevalence rate of Diabetes. [In Preparation]
5. **Md. Jubayer Hossain**, Atik Shariar Sammo, Bithi Akter, Tanjum Ahmed Nodee, Sanjida Akter Sathy, Ema Akter, Susmita Jahan Bristy (2021). Health Impact of Distance Learning among Students from Science Faculty Jagannath University, Bangladesh during COVID-19: An Exploratory Study [In Preparation]

## PROJECTS

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- **Disease Detection System** [Github]  
The aim of this Disease Detection System(DDS) to detect some disease by using machine learning techniques.

## ACADEMIC PROJECTS

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- **Bioinformatics Approach for Profiling Antibiotic Resistance genes from Metagenomic DNA Sequence**  
(Advisor: *Dr. Shuvro Nandi*) [February, 2020]
- **State the Art of Microbial Genome Analysis**  
(Advisor: *Dr. Shamima Begum*) [October, 2020]

## KEY SKILLS

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- **Operating Systems:** Windows, Linux
- **Version Control:** Git, Github
- **Programming Languages:** Python, R, Julia, SQL
- **Statistical Software Packages:** SPSS, MS Excel
- **Programming Environment:** Jupyter Notebook, RStudio, VSCode
- **Word Processing and Presentation:** MS Word, MS PowerPoint
- **Typesetting and Illustrations:** L<sup>A</sup>T<sub>E</sub>X
- **BioStack:** Biopython, Scikit-bio, BioPandas, Biote, RDkit

## AFFILIATIONS

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- **Founder, [Health Data Research Organization](#)** [June 2020 - Present]  
The main focus of this group is to solve healthcare problems with the help of data in Bangladesh. The primary responsibilities include designing courses, data analysis, and team management.
- **Founder, [Apon](#)** [2016 - Present]  
Apon is a non-profit blood donation platform. Primarily Apon is working for Thalassemia patients in Bangladesh.
- **Founder, [Pounopunik](#)** [Nov 2016 - Present]  
The Pounopunik is a science organization at Sreepur. This organization aims to arrange a science olympiad and other scientific events for primary, secondary, and higher secondary students.

## RESEARCH INTERESTS

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- Public Health
- Health Data Science
- Bioinformatics
- Antibiotic Resistance
- Diabetes
- Health effects of environmental exposures

## LINGUISTIC PROFICIENCY

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- English (Fluent Working Proficiency)
- Bangla (Native Language)

## EXTRA CURRICULAR ACTIVITIES

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- **Founding Member, [Kanthokanon](#)** [Nov 2016 - Present]  
Kanthokanon is a poetry recitation organization at Sreepur. Here I am an active member. I learned Bangla pronunciation and poem recitation. I performed in 3 programs and won 2 awards from "Victory Day Poem Recitation Competition-2014."
- **Participant, [Recitation, Presentation and News Reading Workshop](#)** [March 2013]  
Kanthobithy Magura arranged the workshop in 2013. Kanthobithy Magura is the first poetry recitation organization in Magura.

## REFERENCES

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**Syeda Tasneem Towhid, Ph.D**

Assistant Professor,  
Department of Microbiology  
Jagannath University, Dhaka  
Email – [towhidst@mib.jnu.ac.bd](mailto:towhidst@mib.jnu.ac.bd)

**Mohammad Ariful Islam, Ph.D**

Associate Professor,  
Department of Microbiology  
Jagannath University, Dhaka  
Email – [ariful@mib.jnu.ac.bd](mailto:ariful@mib.jnu.ac.bd)