

Md. Jubayer Hossain

Azimpur, 7/A, Dhaka – Bangladesh

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ACADEMIC CREDENTIALS

- **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

- **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

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. [On Going]
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. [On Going]
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. [On Going]
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. [On Going]
5. **Md. Jubayer Hossain**, Atik Shariar Sammo, Bithi Akter, Tanjum Ahmed Nodee, Sanjida Akter Sathy, Ema Akter, Susmita Jahan Bristy (2021). Health Impact for Distance Learning during COVID-19 among Jagannath University Science Faculty Students: An Exploratory Study [Under Preparation]

PROJECTS

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

ACADEMIC PROJECTS

- **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

- **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^AT_EX
- **BioStack:** Biopython, Scikit-bio, BioPandas, Biote, RDkit

AFFILIATIONS

- **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, [Pounopunik](#)** [Nov 2016 - Present]
The Pounopunik is a science organization in my Upazila. This organization aims to arrange a science olympiad and other scientific events for primary, secondary, and higher secondary students.

RESEARCH INTERESTS

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

LINGUISTIC PROFICIENCY

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

EXTRA CURRICULAR ACTIVITIES

- **Founding Member, [Kanthokanon](#)** [Nov 2016 - Present]
Kanthokanon is a poet recitation organization in my Upazila. 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."

REFERENCES

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Mohammad Ariful Islam, Ph.D

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