# Nishat Anjum Bristy

Undergraduate student
Computer Science and Engineering
Bangladesh University of Engineering and Technology
Phone: +8801980223218
Email: nishatanjumbristy@gmail.com
Address: Chatri Hall, BUET, Dhaka, Bangladesh.

## Research Interest

Computational Biology, Machine learning, Algorithms

## Education

| | |
|---|---|
| 2016-2020 | **BSc. in Computer Science and Engineering**<br>Bangladesh University of Engineering and Technology<br>CGPA : 3.86/4.00 (Upto 6 terms)<br>(Expected Graduation : June, 2020) |
| 2015 | **Higher Secondary Certificate**<br>Dinajpur Government College<br>GPA : 5.00/5.00 |
| 2013 | **Secondary School Certificate**<br>Dinajpur Government Girls' High School<br>GPA : 5.00/5.00 |

## Research Experience

| | |
|---|---|
| April,2017 - August,2019 | **Worked with Md. Shamsuzzoha Bayzid on**<br>Quartet-based inference of cell differentiation trees.<br>(Bioinformatics, Phylogenetics) |
| May, 2019 | **Working with Md. Shamsuzzoha Bayzid on**<br>Species tree estimation from Triplet and Quartet trees included in gene trees<br>(Bioinformatics, Phylogenetics) |
| December, 2019 | **Working with Md. Shamsuzzoha Bayzid on**<br>Statistically consistent species tree estimation from alignment free, assembly free genome-reads.<br>(Computational biology, Phylogenetics) |

## Publications

JOURNAL ARTICLES

2019   N. A. Moumi, B. Das, Z. T. Promi, **N. A. Bristy**, and M. S. Bayzid, *"Quartet-based inference of cell differentiation trees from chip-seq histone modification data,"* PloS one, vol. 14,no. 9, 2019 [https://doi.org/10.1371/journal.pone.0221270]

## Work Experience

| | |
|---|---|
| December, 2016 | **Accademic team member**<br>Bangladesh Mathematical Olympiad |
| December, 2018 | **Accademic Coordinator**<br>Ramanujan Gonit Songho, Dhaka |

## Grants, honors & awards

| | |
|---|---|
| 2018,2019 | University merit scholarship for accademic excellence. |
| 2015 | Board Talentpool Scholarship in Higher Secondary Certificate Examination. |
| 2014 | Placed 15th at Bangladesh Physics Olympiad. |
| 2013,2015 | Champion at Bangladesh Mathematics Olympiad |
| 2013 | Board Talentpool Scholarship in Secondary School Certificate Examination. |
| 2013 | Placed 20th at Bangladesh Physics Olympiad. |
| 2013 | Placed 7th at Bangladesh Science Olympiad. |
| 2013 | Divisional champion on 'Math and computer' and 'Language Learning' at Creative Talent Hunt, Bangladesh. |
| 2012 | Divisional Champion at Bangladesh Chemistry Olympiad |
| 2012 | Divisional champion at Bangladesh biology olympiad. |
| 2011 | Board Talentpool Scholarship in Junior School Certificate Examination. |
| 2010 | National Champion at Essay competition. |

## Selected Computer Literacy

| | |
|---|---|
| Programming Language | C, C++, Java, Python, Matlab, PHP |
| Scripting Languages | Javascript, HTML, CSS. |
| Operating Systems | Windows, Linux |
| Framework | Django |
| Database | Oracle, SQL, SQLite |
| Machine Learning | Tensorflow, Anaconda |

## Projects

| | |
|---|---|
| 2017 | Website of a Bank management system with JSP, HTML, CSS (as part of Database course). |
| 2018-2019 | Machine learning based Bank Credit Risk Prediction. (Ongoing work with Bank Asia, Bangladesh). |
| 2019 | TCP Reset Attack on video streaming(Computer security) |

## Leisure

| | |
|---|---|
| Hobbies | Learning Languages, Sketching, Painting, Crafting, Singing. |
| Languages | Bangla, English, French, Hindi, Arabic |