





# MST. MARIAM SULTANA

23/ka, Vivek Jannat , West- Tejturi  
Bazar, Tejgaon, Dhaka-1215 

+8801779239470 

mariamsultana1ju@gmail.com 

[mariam.stu20141@juniv.edu](mailto:mariam.stu20141@juniv.edu) 



## OBJECTIVE

---

I've long been involved in research and programming in the field of Mathematics. I am always energetic and eager to learn new skills. I aim to become a dynamic and solution-oriented consultant to help more people achieve their goals. As an entry-level teacher, I would like to leverage my extrovert and dynamic approach in teaching students. With my great administrative and coordination skills, I would work to perform organizational tasks and duties.



## PERSONAL INFO

**Father's Name:** Late Abdul Mazid

**Mother's Name:** Mst. Hosneara Pervin

**Address:** 23/Ka, Vivek Jannat, West Tejturi Bazar, Tejgaon, Dhaka-1215

**Nationality:** Bangladeshi by birth

**National ID No:** 9165204398

**Religion:** Islam

**Marital Status:** Married

**Blood Group:** O (+ve)

**Height:** 5'2''



## LANGUAGE

---

**Bangla-** Native/Bilingual Proficiency

**English-** Full Professional Working Proficiency

**Hindi-**Fluent in Speaking and understanding



## EDUCATION

---

### **Master of Science (M.S.)**

**CGPA 4.00 out of 4.00**

Department of Mathematics  
Jahangirnagar University, Savar, Dhaka-1342  
Session: 2019-2020  
Result Published: 2022 (December)

### **Bachelor of Science (B.Sc.)**

**CGPA 4.00 out of 4.00**

Department of Mathematics  
Jahangirnagar University, Savar, Dhaka-1342  
Session: 2014-2015.  
Result Published: 2021

### **Higher Secondary School Certificate (H.S.C.)**

**GPA 5.00 out of 5.00**

Science group  
Shahid Bul Bul Govt. College, Pabna  
Session: 2012-2013

### **Secondary School Certificate (S.S.C.)**

**GPA 5.00 out of 5.00**

Science group  
Ataikula High School, Pabna  
Session: 2010-2011



## REPORT & THESIS

---

### **Report (Honors)**

**Report Title:** Hyperbolic Partial Differential Equations (March, 2020 – January, 2021)

**Supervised By:** Dr. Md Tauhedul Azam, Associate Professor, Department of Mathematics, Jahangirnagar University

## Thesis (Masters)

**Thesis Title:** Numerical Simulation of Macroscopic Multilane Traffic Flow Model using Lax-Wendroff Finite Difference Scheme, (May, 2021–November,2022)

**Supervised By:** Professor Dr. Md. Laek Sazzad Andallah, Department of Mathematics, Jahangirnagar University



## CONFERENCE & PUBLICATIONS

---

### Conference:

**Paper Title:** Numerical Simulation of Macroscopic Multilane Traffic Flow Model Using Lax-Wendroff Multi-Step Method based on Linear and Non-linear Velocity-Density Function

**Conference Name:** A F Mujibur Rahman-Bangladesh Mathematics Society National Mathematics Conference-2022

**Perform as:** Presenter

### Publications:

1. **Numerical Simulation of Diffusion Type Traffic Flow Model Using Second-Order Lax-Wendroff Scheme Based on Exponential Velocity Density Function**, AJMC ( American Journal of Computational Mathematics), 2023
2. **An Improvement Nearest Neighbor Algorithm for Solving TSP**, IJSRCSEIT (International Journal of Scientific Research in Computer Science, Engineering and Information Technology), 2018
3. **A Tale of Revolution: Discovery and Development of TSP**, IJMTT (International Journal of Mathematics Trends and Technology), 2018



## SKILLS

---

### Interpersonal Skills

- Teaching
- Research
- Presentation Skill
- Organizing
- Leadership
- Communication

### Technical Skills

- Microsoft Office(Word, Excel, PowerPoint)
- Fortran, C, C++, MATLAB, Python (Programming Language)



## AWARDS

---

1. Awarded **Asadul Kabir Gold Medal** by **honorable president of Bangladesh** from Jahangirnagar University for obtaining highest marks in Bachelors 2019 among all students.
2. Selected for **Prime-Minister Gold Medal 2021**
3. Awarded **university scholarship** on Academic Result from Jahangirnagar University (2016-2019)
4. Obtained **gold honor** at International Youth Math Challenge 2020 and secured position in **top 1%** among all participants
5. Obtained 5<sup>th</sup> position in 10<sup>th</sup> National Undergraduate Mathematics Olympiad (North region)
6. Awarded **SSC Merit Scholarship** in 2012
7. Awarded **General Scholarship** in primary school certificate



## Experiences

---

1. Adjunct Faculty in Mathematics at East West University, Aftabnagar, Dhaka (From 4<sup>th</sup> June, 2023-15<sup>th</sup> July, 2023) **(No Experience Certificate is given)**



## REFERENCES

---

### **Dr. Md. Laek Sazzad Andallah**

Professor  
Department of Mathematics  
Jahangirnagar University  
Email: andallah@juniv.edu  
Mobile:01717201325

### **Dr. Mahtab U Ahmmed**

Professor  
Department of Mathematics  
Jahangirnagar University  
Email: mahtab.ahmmed@gmail.com  
Mobile:01779609903



## CERTIFICATION

---

I, the undersigned, certify that to the best of my knowledge and belief, this resume correctly describes me, my qualifications and my experiences. I hereby assure that all facts given are true and I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

*Mariam*

Mst. Mariam Sultana