ASIR INTESAR TUSHAR

Knoxville, USA ⋄ ✉ aintesar@vols.utk.edu

EDUCATION

University of Tennessee, Knoxville Knoxville, USA
Ph.D in Mathematics *August, 2021-Present*

University of Dhaka Dhaka, Bangladesh
M.S in Mathematics *July, 2020*

- **GPA: 3.94/4.00**
- **Thesis:** *Numerical Investigation of Black-Scholes Equation.*
- **Supervisor:** Dr. Samir Kumar Bhowmik

University of Dhaka Dhaka, Bangladesh
B.S. in Mathematics *August, 2018*

- **GPA: 3.74/4.00**
- **Project:** *Mercury's Perihelion Precession: A classical test of general theory of relativity.*

WORK EXPERIENCE/ RESEARCH

University of Tennessee, Knoxville August 1st, 2022- Present
Graduate Teaching Associate
Instructor of Record *Knoxville, USA*

- **Courses**: *Math 113: Mathematical Reasoning , Spring 24'*
- **Courses**: *Math 113: Mathematical Reasoning, Fall 23'*
- **Courses**: *Math 123: Finite Mathematics, Spring 23'*
- **Courses**: *Math 123: Finite Mathematics, Fall 22'*

University of Tennessee, Knoxville August 1st, 2021- July, 2022
Graduate Teaching Assistant *Knoxville, USA*

- **Courses:** *Math 125: Basic Calculus, Spring'22*
- **Courses:** *Math 119: College Algebra, fall'21*

Ahsanullah University of Science and Technology (AUST) December, 2020 - June, 2021
Lecturer *Dhaka, Bangladesh*

- **Courses:** *Math 1107: Calculus 1, Math 231: Differential Equation.*

Bose Centre for Advanced Study and Research in Natural Sciences Feb, 2020-June, 2020
Research Fellow

- Research focusing on non-linear Black-Scholes Equation of different volatility models and comparison with real-life market data.

Bangladesh Mathematical Olympiad Committee(BdMOC) March 2016 - June 2019
Trainer *Volunteer*

- Conducting numerous sessions on *Number Theory* and *Combinatorics* in math camps and supervising National Mathematics Olympiad.

Bangladesh Mathematical Olympiad Committee(BdMOC)	June 2013-February 2016
Mentor	*Volunteer*

- Guiding the participants of mathematical Olympiads. Creating Olympiad problems and grading the answer scripts. Apart from these, the key responsibility was to visit different Divisional Olympiads with other mentors to supervise them.

PUBLICATION

JA Khan, AI Tushar , *Numerical Approximations of a Nonlinear Volatility Model with European Options*, Ganit: Journal of Bangladesh Mathematical Society 42 (1)   2022
https://doi.org/10.3329/ganit.v42i1.61000

CONFERENCE/WORKSHOPS

Attendee	2024
103rd MAA-SE Section Meeting	*University of Knoxville, Tennessee*

Volunteer	2018
20th International Mathematics Conference	*University of Dhaka*

Volunteer	2019
21st International Mathematics Conference	*University of Dhaka*

ACHIEVEMENT

Academic Performance Assistantship (API)	2023
University of Tennessee, Knoxville	

Bangladesh-Sweden Travel Award	2021
Bangladesh to USA Travel Grant	

NST (National Science Trust) Fund for MS Thesis	2018-2019
University of Dhaka	

Honor's Merit Award	2017
University of Dhaka	

SKILLS

- **Programming: *Fortran, Matlab, and Mathematica.***
- **Languages:** Bengali, English.

PROFESSIONAL MEMBERSHIPS

- American Mathematical Society (**AMS**)
- Society for Industrial and Applied Mathematics (**SIAM**)
- Bangladesh Mathematical Society (**BMS**)
- BSA (Bangladesh Student Association at UTK)
- UTK Table Tennis Club