

NOOR ALAM

3130 4th Street Apt 107, Lubbock, TX 79415, USA.

+1 806-702-6622 nooralam.cou@gmail.com [nooralam](https://www.linkedin.com/in/nooralam) [nooralam](https://github.com/nooralam) [nooralam](https://www.instagram.com/nooralam) [0009-0000-0411-7087](https://orcid.org/0009-0000-0411-7087)

RESEARCH INTERESTS

Fluid Dynamics, Partial Differential Equations, Mathematical Physics, Data Science.

EDUCATIONAL QUALIFICATION

Texas Tech University, TX, USA.

August 2025 - Present

PhD in Mathematics

Comilla University, Cumilla, Bangladesh.

June 2017 - September 2018

MS in Mathematics

CGPA: 3.93/4.00 (Rank: 3/50)

Thesis Dissertation: Unsteady MHD flow over an inclined porous plate thermal and mass diffusion in the presence of radiation.

Comilla University, Cumilla, Bangladesh.

January 2012 - April 2017

BS in Mathematics

CGPA: 3.72/4.00 (Rank: 3/50)

Project Title: Numerical Study for Solving Initial Value Problems in Ordinary Differential Equations by using Single-step and Multi-step Methods.

TEACHING EXPERIENCES

Texas Tech University, TX, USA.

August 2025 - Present

Graduate Teaching Assistant, Department of Mathematics and Statistics

Kishoreganj University, Bangladesh.

October 2023 - Present

Lecturer, Department of Mathematics.

Dhaka Commerce College, Mirpur, Dhaka, Bangladesh.

March 2022 - October 2023

Lecturer, Department of Mathematics.

Primeasia University, Banani, Dhaka, Bangladesh.

May 2019 - February 2022

Lecturer in Mathematics, Department of Basic Science.

German University Bangladesh, Gazipur, Bangladesh.

Feb 2019 - May 2019

Lecturer in Mathematics, Department of Computer Science and Engineering.

PUBLICATIONS

- T. Usman, **N. Alam**, M. S. Ullah, et al. "Soliton, stability, multistability, and diverse tools for identifying chaos in a nonlinear model with two modified methods", *Nonlinear Engineering*, De Gruyter, November 2025. [Accepted]
- T. Usman, M. A. Akter, **N. Alam**, et al. "Bifurcation, Chaos, Multistability, Sensitivity, and Dynamic Properties to the Third Fractional WBBM Equation", *Mathematical Methods in the Applied Sciences*, Wiley, November 2025. [Paper]
- **N. Alam**, M. S. Ullah, J. Manafian, et al. "Bifurcation analysis, chaotic behaviors, and explicit solutions for a fractional two-mode Nizhnik-Novikov-Veselov equation in mathematical physics", *AIMS Mathematics*, AIMS Press, March 2025. [Paper]
- **N. Alam**, M. S. Ullah, T. A. Nofal, et al. "Novel dynamics of the fractional KFG equation through the unified and unified solver schemes with stability and multistability analysis", *Nonlinear Engineering*, De Gruyter, October 2024. [Paper]

- **N. Alam**, A. Akbar, M. S. Ullah, M. Mostafa, “Dynamic waveforms of the new Hamiltonian amplitude model using three different analytic techniques”, *Indian Journal of Physics*, Springer, September 2024. [\[Paper\]](#)
- **N. Alam**, W. X. Ma, M. S. Ullah, et al. “Exploration of soliton structures in the Hirota–Maccari system with stability analysis”, *Modern Physics Letters B*, World Scientific, July 2024. [\[Paper\]](#)
- **N. Alam**, S. Poddar, M. E. Karim, et al. “Transient MHD Radiative Fluid Flow over an Inclined Porous Plate with Thermal and Mass Diffusion: An EFDM Numerical Approach”, *Mathematical Modelling of Engineering Problems*, IIETA, September 2021. [\[Paper\]](#)

SELECTED AWARDS & ACHIEVEMENTS

NST Fellowship’18: Awarded to facilitate the M.Sc. dissertation from the Ministry of Science and Technology of Bangladesh.

Student Scholarship: Received university yearly scholarship for outstanding results.

Scholarship for Entrance Exam: Received scholarship for achieving the top position in the undergraduate entrance exam.

TECHNICAL SKILLS

- **Programming Languages:** Mathematica, Maple, FORTRAN, MATLAB, Python.
- **Microsoft Office:** Word, Excel, PowerPoint.
- **Developer Tools:** LaTeX, PyCharm, Jupyter Notebook, Spyder.
- **Operating System:** Linux, Windows.

ACTIVITIES & SERVICES

Chief Advisor: Pie Club (2024-Present), Department of Mathematics, Kishoreganj University, Bangladesh.

Mentor: Math Olympiad Team (2020-2021), Department of Basic Science, Primeasia University, Dhaka.

Executive Member: Mathematics Club (2013-2017), Department of Mathematics, Comilla University, Cumilla.