

Muhammad Faroog

Mathematics Graduate



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Enthusiastic Bachelor of Science in Mathematics candidate with a passion for exploring diverse areas of mathematical research and their practical applications. Eager to pursue advanced studies in Applied Mathematics to deepen understanding and contribute to real-world problem-solving. Proficient in mathematical modeling, analytical reasoning, computational methods and Fixed point theorem applications, with expertise in utilizing software tools like Maple for enhanced analysis and problem-solving. Committed to innovative approaches and collaborative efforts to address complex challenges across disciplines.

EDUCATION

Bachelor of Science Mathematics Namal University Mianwali

10/2020 - Present

- Multi-variate Calculus

- Linear Algebra - Probability and Statistics

- Partial Differential **Equations**

Mianwali, Pakistan

Numerical Method

- Lie Symmetry Analysis

- Complex Variables

 Application of Non-linear Waves

WORK EXPERIENCE

Teacher Assistant

Department of Mathematics Namal University

02/2023 - 07/2023

- Assisted Dr. Adil Jhangeer and Dr. Yousaf Shad Muhammad in teaching Calculus and Probability and Statistics courses.
- Provided support to students by conducting review sessions, grading assignments, and assisting with course materials.

Contact: Dr. Adil Jhangeer (Head of Mathematics Department) adil.jhangeer@namal.edu.pk

Mathematics Teacher

Education Wing (Namal Society for Social Impact)

10/2020 - 07/2023

- Taught mathematics to metric classes for three years.
- Developed lesson plans, delivered lectures, and facilitated discussions.

Summer Internship

Center of Excellence and Skills Development

07/2022 - 08/2022

- Acquired skills in reading research papers, using MS Office, LaTeX, and Canva.
- Participated in advanced physics lab experiments to understand mathematical physics models.
- Developed soft skills such as communication and teamwork.

ORGANIZATIONS

Namal Society for Social Impact (11/2021 - 07/2023)

Head of Education and Skills Development Wing

Namal Mathematics Society (10/2022 - 06/2023)

Head of Math Discussion Forum

SKILLS

UNDERGRADUATE PROJECTS

Final Year Project (10/2023 - Present)

- Fixed Point Theorems with applications in solutions of Matrix equations.
- Proved Some Fixed Point Theorems.
- Used that Theorems for the existence of solution of matrix equation.

Application of Non-linear Waves (03/2023 - 07/2023)

Explored a research article (Dark-in-the-bright solitary wave solution for higher-order nonlinear Schrödinger equation with non-Kerr terms.)

CERTIFICATES/AWARDS

Earned a Merit Scholarship during undergrad studies.

Received the Goodwill Scholarship during F.Sc studies.

Certified as a Mathematics Teacher.

Completed the Campus to Corporate Training program.

Acknowledged as the Head of Education and Skills Development Wing.

Participated in the Pakistan Mathematics Competition at Sukkur IBA University, earning a Certificate of Participation.

LANGUAGES

English

Urdu

Professional Working Proficiency Native or Bilingual Proficiency

Pashto

Native or Bilingual Proficiency

Chinese

Elementary Proficiency

AREA OF INTEREST

Fixed Point Theorem and its Applications

Solutions of ODEs and PDEs

Lie Symmetry Analysis

Application of Non-linear Waves

Numerical Methods