

Benish Mazhar

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Summary

A self-motivated and passionate individual looking to pursue a Master's in Mathematics. A current mathematics teacher providing math services internationally and looking forward with a palpable desire to research into mathematics fields. Demonstrated exceptional academic performance, achieving the highest mark of 99% in Mathematical Methods during my B.Sc. studies. Committed to continuous learning and dedicated to exploring the practical applications of mathematics across various disciplines. Seeking to contribute to the research community as a skilled researcher and make valuable contributions to the field. Driven by a lifelong passion for learning and a deep curiosity about the limitless possibilities of mathematics.

Education

MSc Mathematics

Government College University Faisalabad, Pakistan

September 2019 - 2021
(CGPA: 3.30/4.0)

Courses Outlines:

- Fluid Mechanics I and II; Real Analysis I and II; Complex Analysis I and II; Algebra I and II; Vector and Tensor Analysis; Point Set Topology; Differential Geometry; Mechanics; Functional Analysis; Mathematical Methods; Numerical Analysis I and II; Partial Differential Equations; Advanced Set Theory; Fluid Mechanics I and II; Operations Research; Computing tools for Mathematics; Mathematical Statistics; Theory of Optimization; Special Functions and Integral Equations.

BSc Mathematics and Computer Science

Government College University Faisalabad

2017 - 2019
(1st Division)

- Studies focused on metric space, matrix, mathematical method, mechanics, vector space, calculus, group theory... Operating systems and Networks: Process Management, Threads, Process Synchronization, Deadlocks, Virtual Memory, Visual programming using visual basics, Conditional structures, Error Handling and Debugging.
- Achievements:
Actively participated in team projects to create real world applications. Served as Teaching Assistant responsible for assignment grading, class review sessions, and one-on-one student meetings.
Achieved 99% in mechanics and Metric space; 88% in Mathematical Methods.

Experience

Your Cloud Campus (YCC)

Teaching mathematics internationally to students of all level from various countries through online platform. Experienced in teaching Pre-calculus, Calculus I, Calculus II, Algebra I, Algebra II, and Statistics and specific country courses like NAPLAN (Australia), 11+ (Canada), GCSE, IGCSE.

October 2022 – Present

Responsible for:

- Designing and developing a comprehensive math curriculum that aligns with the educational standards.
- Tracking student's progress, analyzing data, and identifying areas of improvement or intervention to ensure each student's academic growth.
- Engaging in ongoing professional development to stay updated with the latest teaching methodologies, instructional strategies, and advancements in math education.

Additional Information

Courses/Certificates

- Differential Equations Part I Basic Theory (Certificate): Grade Achieved: 97.80%
KAIST University, Korea
Basic definitions and terminologies in ordinary differential equations. Understand initial value problem and Picard's theorem. Analytic methods to obtain general solutions of first order DE. Homogenous, Bernoulli's, Ricatti's, Clairaut's equations. Mathematical modeling and applications.
- Matrix Algebra for Engineers (Certificate): Grade Achieved: 97.50%
The Hong Kong University of Science and Technology
Basics of Matrix, Gaussian elimination, LU Decomposition, Vector spaces, Eigenvalues, Eigenvectors, and Matrix Diagonalization.
- Differential Equations for Engineers (Certificate): Grade Achieved: 89.80%
The Hong Kong University of Science and Technology
Numerical Methods (Euler and Runge-Kutta Methods), Euler numerical method to a second-order ODE, inhomogeneous term to the constant-coefficient ODE, Laplace transform method.

Extracurricular Activities:

- International webinar on Intelligent Optimization Techniques and their real life application
- Certificate of computing with MATLAB and Latex software
- Certificate of English Language Course
- Certificate of creative writing and Freelancing from Virtual University, Pakistan
- GOODWALL [Better Together], in support of [Sustainable Development Goals], In partnership with [Santander, MONSTER, Generation Unlimited, Pearson University], Walden
- Certificate of beginner Korean language with Billy
- E-Rozgar (Freelancing program from provincial Government of Punjab, Pakistan)

Awards/Achievements

- Winner of YCC business retainer event [2022]
- Third position in Better Together Competition [2020]
- PEEF (Punjab Educational Endowment Fund) Scholarship [2017]
- FFS(Fouji Foundation Scholarship) [2015]

Volunteer Work

- Mess-Manager Government College University Faisalabad Hostel September 2019-2021
- Responsibilities include menu planning, food procurement, budgeting and cost control, inventory management, health and safety compliance.
 - This experience enhanced my analytical, problem-solving and organizational skills.

Research Interests

- Partial Differential Equation
- Fluid Mechanics
- Numerical Analysis
- Non-Linear Control Theory