

Muhammad Tahir



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PROFESSIONAL PROFILE

Highly motivated Mathematics educator and researcher with a Master of Philosophy in Applied Mathematics, specializing in numerical solutions of PDEs and fluid mechanics. Currently a PhD candidate in Mechanical, Manufacturing, Management, and Aerospace Innovation (M3AI) at the University of Palermo, Italy. Proven track record of delivering effective mathematics instruction across various academic levels, including SSC, HSSC, and undergraduate programs. Committed to fostering academic excellence and advancing research in applied mathematics and statistics.

EDUCATIONAL BACKGROUND

PhD in Mechanical, Manufacturing, Management, and Aerospace Innovation (M3AI) 2024-27
University of Palermo | Palermo, Sicily, Italy

Area of Research: Applications of Artificial Intelligence in Manufacturing Processes

Master of Philosophy in Applied Mathematics (M.Phil.) 2020-22
Riphah International University | Faisalabad, Pakistan

- CGPA: 3.90
- Major Course Work: [Numerical Solution of PDEs](#), [Symmetries and Exact Solutions of Differential Equations](#), [Advanced PDEs](#), [Computational Fluid Dynamics](#)
- Thesis title: Comparison Models for Casson Nano-fluid Flow over a Riga Sheet: Stagnation Point

Bachelor of Education (B.Ed.) 2018-20
Allama Iqbal University | Faisalabad, Pakistan

- Grade: B
- Course Work: General Methods of Teaching, Curriculum Development, Educational Leadership and Development, Research Methods in teaching, Teaching Practice, Research Project

Master of Science in Mathematics (M.Sc.) 2015-17
Government College University | Faisalabad, Pakistan

- CGPA: 3.27
- Interested Course Work: Real Analysis, Complex Analysis, Operational research, Mathematical Methods, Numerical Analysis, Fluid Mechanics, Linear Algebra, Statistics.

Bachelor of Science (B.Sc.) 2013-15
Government College University | Faisalabad, Pakistan

- Division: 2nd
- Course Work: Mathematics Course A & Mathematics Course B, Economics

PROFESSIONAL EXPERIENCE

29 Sep. 2024- 04 Oct. 2024 | **University of Palermo** | Palermo, Italy
SMART 2024 | 6th Summer School on Sheet Metal Advanced Research & Technology

Sep 2022– June 2024 | **Shiblee College D-Ground** | Faisalabad, Pakistan
Mathematics Educator | Higher Secondary School Certificate (HSSC)

- Conducted comprehensive lectures and designed curriculum for Mathematics courses tailored for HSSC students.

Lecturer in Mathematics and Computer Science | Bachelor of Science (BS) Programs

- **Linear Algebra-I:** Taught foundational concepts of linear algebra to BS Computer Science and Mathematics students.
- **Statistics:** Delivered lectures on statistical theories and applications as a minor subject for BS Computer Science students.
- **Calculus-I, II, III, and Mathematical Methods:** Guided BS Mathematics students through advanced calculus and mathematical methods.
- **Real Analysis and Fluid Mechanics:** Taught specialized topics in real analysis and fluid mechanics to BS Mathematics students.
- **Numerical Computation:** Introduced computational methods and algorithms to BS Computer Science students.
- **Business Mathematics:** Taught mathematical concepts and their applications in business to BBA

TRAINING & CERTIFICATION

Microsoft Office Specialist, PowerPoint® 2016 Microsoft	Dec 2019
Microsoft Office Specialist, Word 2013 Microsoft	Dec 2020
Data Analytics using Excel Great Learning Academy	Oct 2022

TECHNICAL SKILLS

Programming Languages:

- MATLAB

Software:

Microsoft Office Suite (Word, PowerPoint, Publisher, Excel), Minitab, and Google Analytics.

LEADERSHIP SKILLS

- convey my ideas, and concepts, and also encourage critical thinking, and engagement in me classrooms and research projects
- Effectively manage my time, and resources, ensuring that all projects and tasks are completed efficiently and to a high standard
- Strong problem-solver and able to find innovative solutions to challenges that may arise
- Always seeking new ways to improve my teaching and research skills
- Create a positive and supportive learning environment for all those around me

REFERENCES

Prof. Gianluca Buffa

Full Professors

PhD Advisor

University of Palermo, Italy

E: gianluca.buffa@unipa.it

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Dr. Nadeem Abbas

Postdoc.

Master's Supervisor

Prince Sultan University, Italy

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Prof. Zulfiqar Ali

Associate Professor

Instructor

Riphah International University, Pakistan

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