



## Zahoor Ahmad

**Nationality:** Pakistani **Date of birth:** 07/05/1996 **Gender:** Male

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### ABOUT MYSELF

PhD Scholar in Mathematics at Bahauddin Zakariya University, Multan, specializing in biofluid flow in non-uniform channels. Proficient in Artificial Neural Networks (ANN), computational modeling, and advanced numerical methods for analyzing complex fluid dynamics phenomena. Experienced in MATLAB, Python, and COMSOL Multiphysics, with a strong focus on simulation, modeling, and data-driven approaches to solve real-world engineering and biomedical flow problems. Committed to integrating rigorous mathematical insight with research-oriented learning and effective scientific communication.

### EDUCATION AND TRAINING

#### DOCTOR OF PHILOSOPHY (PH.D) in Mathematics

*Bahauddin Zakariya University Multan* [ 2022 – In Progress ]

**City:** Multan | **Country:** Pakistan | **Website:** <https://www.bzu.edu.pk/> | **CGPA:** (Course Work): 3.29/4.00

#### Master of philosophy (M.Phil) in Mathematics: (18 year Education)

*Institute of Southern Punjab, Multan* [ 2018 – 2021 ]

**City:** Multan | **Country:** Pakistan | **Website:** <https://www.isp.edu.pk/> | **CGPA:** 3.29/4.00

**Thesis:** *Influence of Suction/Injection on MHD Nano fluid flow in parallel plate channels*

#### Master (M.Sc) in Mathematics: (16 year Education)

*Government College University Faisal Abad (Layyah Campus)* [ 2016 – 2018 ]

**City:** Layyah | **Country:** Pakistan | **Website:** <https://www.gcuf.edu.pk/> | **CGPA:** 3.69/4.00 | **Thesis:** Some Derivative free iterative methods

#### Bachelor (B.Sc) in Mathematics Physics: (14 year Education)

*Bahauddin Zakariya University Multan* [ 2014 – 2016 ]

**City:** Multan | **Country:** Pakistan | **Website:** <https://www.bzu.edu.pk/> | **Final grade:** 450/800

#### Higher Secondary School Certificate: (12 year Education)

*Government Post Graduate college Taunsa Sharif* [ 2012 – 2014 ]

**Country:** Pakistan | **Final grade:** 662/1100

#### Secondary school Certificate: (10 year Education)

*Government High School, Douna* [ 2010 – 2012 ]

**Country:** Pakistan | **Final grade:** 799/1050

## CONFERENCES AND SEMINARS

- 1st BZU International Workshop on Artificial Intelligence and Its Applications, BZU Multan, January 2024
- Workshop on Outcome-Based Education in Science (Online), BZU, October 2024
- Seminar on Importance of Mathematical Modeling for Industrial Development, BZU Multan, November 2022
- Seminar on Learning Mathematics: Roadmap of Success in Life, BZU Multan, November 2022

## WORK EXPERIENCE

### Lecturer (Visiting) of Mathematics

*Government post graduate college Taunsa Sharif* [ May 2021 – Present ]

**City:** Taunsa Sharif | **Country:** Pakistan

### Part -Time Mathematics Teacher

*Bright superior Academy Taunsa Sharif* [ September 2019 – November 2021 ]

**Country:** Pakistan

## RESEARCH INTEREST

- Computational Fluid Dynamics (CFD)
- Magnetohydrodynamics (MHD)
- Nanofluid Flow and Heat & Mass Transfer
- Artificial Neural Networks (ANN)
- Physics-Informed Neural Networks (PINNs)
- Partial Differential Equations
- COMSOL Multiphysics Simulation

## HONOR AND ACHIEVEMENTS:

Registered with Higher education commission (HEC), Pakistan. cvx

## CERTIFICATION and ONLINE COURSES:

Course Name	Instructor	Completion Date
How to identify research gaps	Suzanne BeDell and Laura Hassink	27 September 2024
Leveraging journal citation Reports to Boost Research Impact	Anas N Obaid	18 October 2024
Author Workshop -Essential of writing a research article for high impact journal	Laura Hassink	22 October 2024
Physics Informed Neural Networks (PINN's)	Dr. Muhammad Samara	25 December 2024
Computational Fluid Mechanics-Airflow Around a spoiler	Jousaf Murad	28 January 2025
Artificial Neural Network and Machine Learning using MATLAB	Nastaran Reza Nazar Zadeh	24 June 2025
CFD simulation in COMSOL Multiphysics Simulation software	Bibhaatsu Kuiri	4 July 2025

## DIGITAL SKILLS

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LaTex / MATLAB / COMSOL Multyphysics / Microsoft Excel / Microsoft Powerpoint / Microsoft Word / Zoom.

## LANGUAGE SKILLS

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- English (Professional Working Proficiency)
- Urdu (Native)

## RECOMMENDATIONS

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**Name:** Dr. shahzad Ahmad | Assistant Professor (Research Supervisor)

Centre for Advanced Studies in Pure and Applied Mathematics (CASPAM), Bahauddin Zakariya University, Multan

**Email:** [shahzadahmad@bzu.edu.pk](mailto:shahzadahmad@bzu.edu.pk) | **Phone number:** (+92) 3006326615

**Link:** <https://profiles.bzu.edu.pk/shahzadahmad>

**Name:** Dr. Abuzar Abid Siddiqui | Associate Professor

Head Department of Basic Sciences and Humanities, Bahauddin Zakariya University, Multan

**Email:** [abuzarabid@bzu.edu.pk](mailto:abuzarabid@bzu.edu.pk) | **Phone number:** (+92) 3007186817

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