

Fatima Baseer

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Objective

Dedicated lecturer, researcher, and electronics specialist with expertise in Artificial Intelligence, Cyber Security, Game Theory, Cryptography, and Information Theory. Experience in solving complex research problems, particularly in Chaotic Maps, Nonlinear Dynamic Systems, S-Boxes, and Randomness Testing in Signals. Passionate about teaching and mentoring students, making difficult concepts easy to understand. Skilled in developing secure communication systems and encryption methods to improve data security. Proficient in using MATLAB, Proteus, AutoCAD, and PSpice for simulations, analysis, and research. Committed to academic excellence, research innovation, and contributing to the advancement of modern technology. Always eager to explore new ideas, collaborate on research projects, and apply knowledge to real-world challenges.

Education

Quaid-i-Azam University Islamabad, MPhil in Electronics Sept 2019 – June 2022

- GPA: 3.9/4.0
- Thesis: Designing Multi-Dimensional Quadratic Map with Fixed Point Finite Precision
 1. Conducted research in nonlinear dynamic systems, chaos theory, and fixed-point precision modeling.
 2. Developed mathematical models and simulations for cryptographic and secure communication systems.

Quaid-i-Azam University Islamabad, BS in Electronics Sept 2015 – June 2019

- GPA: 3.5/4.0
- Thesis: Centralized Speech Enhancement for Audio Conferencing
 1. Researched and developed algorithms for improving speech clarity in audio conferencing systems.
 2. Applied signal processing techniques to enhance real-time communication efficiency

FBISE, FSc Pre Engineering 2013 – 2015

FBISE, Matriculation 2011 – 2013

Experience

Lecturer, University of Lahore, Lahore Oct 2024 – Present

- Teaching undergraduate courses in Information Technology
- Designing and conducting lab sessions to provide hands-on experience in Multisim, Proteus, and other simulation tools
- Conducting research in secure communication and cryptographic systems.

Visiting Lecturer, SZABIST University, Islamabad Sept 2023 – Aug 2024

- Delivered lectures on Applied Physics and DLD.
- Conducted Labs related to the courses

Research scholar, Quaid i Azam University, Islamabad Sept 2020 – Aug 2022

- Conducted research on Chaotic Maps, Cryptography, Nonlinear Dynamic Systems, and S-Boxes.
- Developed and analyzed mathematical models for secure communication and encryption techniques.
- Worked on randomness testing in signals to improve cryptographic security.
- Collaborated with faculty and researchers on advanced cryptographic and AI-based security solutions

Awards and Skills

- **Fellowship in MPhil** – Awarded for outstanding academic performance.
- **Fellowship in BS** – Recognized for academic excellence during undergraduate studies.
- **IGNITE Funding for Final Year Project (FYP)** – Secured national-level research funding for an innovative project.

Technologies

Languages: C++, C, Proteus, Multisim, Python, MATLAB

Technologies: Microsoft (Word, Excel, PowerPoint, Office 365) Google(Docs, Slides), Latex