

Dr. Faheel Hashmi

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OBJECTIVE

A PhD in Physics with 12 years of university teaching experience, offering mentorship for high-achieving pre-university students. I provide the academic and mathematical rigour required to excel in Cambridge O/A Level exams and compete in international Physics and Mathematics Olympiads.

WORK EXPERIENCE

2023 – PRESENT (PT)

Mentorship & Visiting Faculty

I have delivered lectures on electromagnetism, quantum mechanics, quantum optics, and modern physics in **Lahore University of Management Sciences (LUMS)** from Sep 2023–Jun 2024. During this time I have also been associated with **Punjab University** as visiting faculty, and have taught modern physics, classical mechanics, and mathematical methods of physics which is an advanced mathematical course. Presently I am associated with **Maktab** as visiting faculty, and am engaged in mentorship of students preparing for Cambridge O Level physics and mathematics exams.

2009 – 2022 (FT)

Professional University Teaching

Most of my time after my PhD has been spent in **COMSATS University Islamabad** as (tenure track) Assistant Professor, both in Islamabad, and in Lahore campuses. This is the time where I mastered the art of teaching. I taught basic and advanced quantum mechanics, quantum optics, modern physics, classical mechanics, and mathematics courses on partial differential equations. I also guided students in laboratory work. I was also engaged in setting up and marking comprehensive exams for PhD students. This period also includes a year-long postdoc in **Beijing Computational Science Research Center** in 2013–14. The research work during this time resulted in a lively debate and publications regarding fundamental understanding of quantum mechanics.

AWARDS & TRAININGS

- 2004 **PhD Scholarship**
Higher Education Commission of Pakistan
- 2013 **Professional Competency Enhancement Program for Teachers**
Higher Education Commission of Pakistan

REFERENCES

- Dr. Suhail Zubairy**
Distinguished Professor, Texas A&M University
- Dr. Sabieh Anwar**
Professor, Lahore University of Management Sciences
- Dr. Amir Razzaq**
Professor, COMSATS University Islamabad

EDUCATION

- 2009 **Doctor of Philosophy (Physics)**
University Paul Sabatier, Toulouse, France
- 2001 **Master of Science (Physics)**
FIRST CLASS
University of The Punjab, Lahore
- 1998 **Bachelor of Science (Physics, Mathematics A & B)**
FIRST DIVISION
University of The Punjab, Lahore
- 1992 **Higher Secondary School Certificate Examination**
A GRADE
Sadiq Public School, Bahawalpur
- 1990 **Secondary School Certificate Examination**
AI GRADE
Pakistan International School, Riyadh

EDUCATIONAL TOOLS

- INSTRUCTIONAL Notability, LiquidText, Google Colab
- VISUALIZATION GeoGebra, PocketCAS
- MANAGEMENT Google Classroom & Workspace, Planbook
- WORKFLOW MacOS, Linux, TikZ, Git, LaTeX

SCIENCE COMMUNICATOR

Author of a series of popular science articles on HackerNoon

Nature's Naked Mystery

Quantum Bridge between Art and Science

Natural-Selection and Intelligent-Design

Interactive Quantum Learning

Contributor to HumSub (Urdu Platform)

سائنس، عقائد اور سچ کی تلاش

رنگ دھوکہ، ہے نظر دھوکہ، ہے عقل دھوکہ ہے

Popular Science Lecture on The Black Hole

Quantum Mechanics for Laymen

Quantum Reality and Non-Locality

Educational Content Creator

My YouTube Channel

Sample notebook for students (exponential functions)

