

Marium Ghulam Nabi

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R-600, Sector: 11-C/1, Adam Town, North Karachi, Karachi

EDUCATION

NED University of Engineering and Technology , Karachi

Nov 2019 – Mar 2022

MS in Physics

NED University of Engineering and Technology , Karachi

Dec 2015 - Aug 2019

BS in Applied Physics

EXPERIENCE

NED University of Engineering and Technology , Karachi

Mar 2024 – Present

Lecturer (Contract)

Department of Physics

NED University of Engineering and Technology , Karachi

Oct 2020 – Feb 2024

Visiting Faculty

Department of Physics

SUPARCO

Research Intern

Dec 2018 - Aug 2019

- Conducted Quantitative Research on different models of Binary Supermassive Black holes (SMBH) for the stability of triaxial galaxies by using Triaxiality parameters.
- Executed Simulations for the galaxy models on ACCRE Cluster
- Performed Data processing and Analysis in MATLAB and Python

PCSIR Laboratories Complex

Research Intern

Sep 2018 - Oct 2018

- Conducted Experimental Research on instruments relevant to the domain of Material Analysis
- Research on Construction Materials and the Role of Nanotechnology in Construction Sector

CONFERENCES

- Attended “ 12th School on LHC Physics “ organized by National Centre for Physics (NCP) in August 2023
- Attended “ 11th School on LHC Physics “ organized by National Centre for Physics (NCP) in August 2022
- Attended “ Summer School on Cosmology 2022 ” held online by the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy in July 2022
- Attended “ 10th School on LHC Physics (Virtual) “ organized by National Centre for Physics (NCP) in August 2021
- Attended “International School on Physics & Allied Disciplines (ISPAD-2021)-Webinar” organized by National Centre for Physics (NCP) in March 2021
- Attended “Conference on Quantum Annealing/Adiabatic Quantum Computation” held online by the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste in October 2020
- Attended “IWARA 2020 Video Conference - 9th International Workshop on Astronomy and Relativistic Astrophysics” held online in September 2020
- Attended “National Conference on Physics Education“ held at Usman Institute of Technology in December 2017

PROJECTS

- **pH sensors** – Suggested **cost-effective** and durable alternative materials with improved soil testing potential for **agricultural** use

HONOURS AND AWARDS

- Certificate of Appreciation from Ms. Talat Rehman – Head of Physics Dept., University of Florida
- Recipient of PM Laptop 2018

COURSES

- Course “Astronomy: Exploring Time and Space” - from the University of Arizona conducted by Coursera (In progress)
- Course “Microgravity: living on the International Space Station” - The Open University
- Course “Particle Physics” - The Open University
- 3-course program “An Introduction to coding and design” – from University of LEEDS conducted by Futurelearn
- Course “Big Data Analytics : Opportunities, Challenges and the Future” – from Griffith University conducted by Futurelearn

SKILLS

Hard Skills: Data Analysis & Quantitative Research in Python and MATLAB

Soft Skills: Communication & Teamwork