AFROZE ZEHRA

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PROFILE

Possessing a strong academic background. Research experience in Computational Physics. Passionate about teaching and coding. 3+ years of experience coding in Python. An aspiring individual looking to work in an organisation where I can learn and grow personally and professionally

SKILLS

Technical skills:
- Python (data types, conditionals, loops, variables, functions, modules, basic OOP); Python libraries (NumPy, SciPy, Matplotlib, PyTorch)
- MATLAB (data types, conditionals, loops, variables, functions, modules)
- C++ (data types, conditionals, loops, variables)
- Mathematical and analytical skills   ● Proficient in using MS Office/Google apps
- Managing and collaborating on online projects

Soft skills:
- Self-direction   ● Quick-learner   ● Emotional Intelligence
- Problem-solving   ● Leadership   ● Excellent presentation skills
- Adaptability   ● Classroom management   ● Effective communication skills

EDUCATION

MPhil Physics (Fall 2020- Spring 2022)	Quaid-i-Azam University (QAU), Islamabad CGPA 3.6
BS Physics (Fall 2015- Spring 2019)	Quaid-i-Azam University (QAU), Islamabad CGPA 3.5
HSSC Pre-Engineering (2013-2015)	IMCG (PG), F-7/2, Islamabad 84%
O Levels (2011-2013)	Viqar un Nisa Noon School, Rawalpindi 5A*s, 2As, 1B

WORK EXPERIENCE

O Levels Teacher   Viqar un Nisa Noon School, Rawalpindi
Sep 2019 - Aug 2020
Key contributions:
- Teach physics to final year O levels students and prepare them for Cambridge exams
- Teach science/math to elementary O levels students and help them get acquainted with concept-based learning
- Evaluate the students on the basis of their progress in class tests and home assignments
- Effectively teaching students online during COVID-19 through proficient use of technology

RESEARCH EXPERIENCE

- MPhil dissertation: "Studying non-Markovian Open Quantum Systems using Time-Evolving Matrix Product States"
  The code for this was implemented in Python

ACHIEVEMENTS
- Awarded fellowships in MPhil by university
- Graduated from university at the top of the class with 78.6% in BS
- Awarded first position merit scholarship 5 out of 6 times in BS by university
- Awarded laptop by PMNLS on the basis of 4 CGPA in second semester in BS

CONFERENCES
- 6th School on LHC Physics at NCP Islamabad (21-31 August 2017)
- 8th School on LHC Physics at NCP Islamabad (19-30 August 2019)

PUBLIC SPEAKING
- Presented "Tracking and Gaseous Detectors at CMS" at 9th LHC School. Won 3rd position
- Presented "ALICE experiment at LHC" at 7th LHC School
- Hosted the Annual Award Ceremony at School

CAMPUS INVOLVEMENT
- Founded and organised an online discussion group 'Dancing with Qubits' during COVID-19
- Co-Founder and Organiser, QAU Literature Enthusiasts
- Member, QAU Physics Club
- First position, 2nd Maths Rodeo Competition, QAU

WRITING
- Science writer for [Astronomy Series](#) at Spectra Magazine
- Summer Science Writing Internship at Spectra Magazine (2019)
- English Editor for annual school magazine

REFERENCES
- Dr Kashif Sabeeh
  Professor at Department of Physics, QAU
  Email: ksabeeh@qau.edu.pk

- Dr Abdul Hameed Toor
  Associate Professor at Department of Physics, QAU
  Email: ahtoor@qau.edu.pk

- Dr Rashid Ahmad
  Associate Professor at Department of Physics, KUST
  Email: rashidahmad@kust.edu.pk

- Dr Ahsan Zeb
  Assistant Professor at Department of Physics, QAU
  Email: ahsan.zeb@hotmail.com

- Dr Imran Ali
  Department of Linguistics (English), University of Haripur
  Phone: +923325574935