

Mahnoor Fatima

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EDUCATION	BSc Electrical Engineering <i>University of Engineering and Technology, Lahore</i> CGPA: 3.693/4.00	2016 - 2020
	FSc Pre-Engineering <i>Lahore College for Women University, Jail Road, Lahore</i> Percentage: 91.01%	2014 - 2016
	Matriculation <i>Crescent Model Higher Secondary School, Shadman, Lahore</i> Percentage: 95.91%	2012 - 2014
TECHNICAL SKILLS	Programming Languages Wolfram, Python, C, C++, Java, Verilog, MySQL, Scratch	
	Quantum Computing Languages/Frameworks Qiskit, Q#, Pennylane, Cirq, QuTiP, PyZX	
	Microcontrollers Arduino, Tiva, STM32 Microcontroller, Spartan 3 FPGA, DE1 SoC-FPGA Board	
	Software Platforms <ul style="list-style-type: none">• Microsoft Office• MATLAB• Simulink• Wolfram Mathematica• Wolfram System Modeler• Eclipse• Adobe Illustrator• Microsoft Visual Studio• L^AT_EX• PyCharm• Attilo• μvision 4, 5	
EXPERIENCE	Research Intern <i>Srinjoy Ganguly, Gopika Rao Chaganti</i> QIntern - QWorld Summer Internship Program	Jun 2021 - Present
	Hackathons <i>Quantum Coalition Hack</i> Participant	Yale x Stanford Apr 2021
	Science Editor <i>Dr Muhammad Sabieh Anwar</i> Lahore University of Management Sciences (LUMS)	Oct 2018 - Jun 2020
	Professional Experience <i>The Hash Labs</i> Technical Engineer	Mch 2021 - Jun 2021
PROJECTS	• Quantum Computing with Spiders (ZX Calculus)	Jul 2021 - Present
	• Electronic Science Experiment Augmented with Wolfram Technologies	July 2021
	• Grover's Algorithm For MinFind in An Unsorted List	Apr 2021
	• Psycholinguistic Lexicon	Jun 2020 - Jul 2020
	• Chemistry Learner Application	Dec 2017 - Jan 2018

ORGANISATIONS

Spectra Magazine

Managing Editor	Sept 2019 - Present
Assistant Managing Editor	June 2019 - Aug 2019
Director Publication	Dec 2018 - June 2019
Science Editor	Oct 2018 - Present

IET On Campus UET Lahore

Head, Research & Outreach Chapter	May 2019 - Present
Co Head, Research & Outreach	Oct 2018 - May 2019

IEEE UET Lahore

Chairperson, Membership Committee	May 2018 - May 2019
Treasurer, Women In Engineering	May 2017 - May 2018

Khwarizmi Science Society

Volunteer, Lahore Science Mela	Jan 2018
General member	Dec 2017 - Present

SCIENCE WRITING Publications

- Fatima, M. *Magnonics: Moore's Law Beyond CMOS*. IEEE Elektron. 2020.
- **Fatima, M.**, & Ilahi, F. E. "Culture greatly influences attitude towards science": Dr Pervez Hoodbhoy on science in Pakistan. Spectra Magazine. 2020.
- **Fatima, M.**, & Ilahi, F. E. Dr Pervez Hoodbhoy: "Physics is the basis of everything". Spectra Magazine. 2020.
- Fatima, M. *Science Outreach: The Catharsis of an Undergraduate*. PLOS ECR Community Blog. 2019.
- **Fatima, M.**, & Waseem, M. H. *Reshaping Education from the Roots Upwards*. Spectra Magazine. 2019.
- Fatima, M. *The 'i' in Science*. Khwarizmi Science Society Lahore Science Mela Blog. 2018.

SCIENCE OUTREACH

- IET Annual Science Outreach Oct 2019 - Dec 2019
- Shaukat Khanam Summer Outreach Jul 2019 - Aug 2019
- Excursionist Outreach Jul 2019 - Aug 2019
- Coding Workshop, Syedanwala Girls School Dec 2018
- IET Annual Science Outreach Oct 2018 - Dec 2018

AWARDS & ACHIEVEMENTS

- Foundational Badge, **IBM Quantum Challenge 2021**
- Accepted to **Wolfram Summer School 2021**
- Runner up, **IET Present Around the World**, Local Level. 2019.
- Recipient, **Madam Jahan Ara Khan Shield for Outstanding Performance**, Crescent Model Higher Secondary School, Lahore. 2014.
- Winner, **Brain of Lahore Quiz Competition**, Trust School, Lahore. 2014.
- Bronze medallist (16th nationwide), **International Kangaroo Mathematics Competition**, Benjamin Level. 2010.

LANGUAGES

Proficient/Native: Urdu, English
Beginner: Japanese, Spanish