Mahrukh Khan

MS, MCS, BCS – Computer Science

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Current Address: B56 Al Noor Housing Society, Near Kalaboard Malir, Karachi.
Nationality: Pakistan

Experience

2025 – present

Lecturer – AI and DS Department

FAST-NUCES

Karachi, Pakistan

2021 – 2022

Researcher – Computer Vision and Object Detection
Northwestern Polytechnical University
Xi'an, China

Collaborated with Professor Wang Yi of the School of Electronics and Information for computer vision and deep learning-based projects that resulted in the publication of a research paper in a Q1 WOS-indexed journal.

2018 – 2019 **Lecturer – Computer Science**
FAST-NUCES
Karachi, Pakistan

Responsible for teaching undergraduate courses in the School of Computer Science. Published two research papers while associated with FAST-NUCES.
Courses taught: Programming fundamentals (C++), Digital logic design, Data Science with Python

2015– 2018 **Teaching Assistant – Computer Science**
FAST-NUCES
Karachi, Pakistan
During my Masters' degree, I was also serving as a teaching assistant to assist in teaching and lab work.
Lab Assistant: Computer organization and assembly language, Data science lab, Digital logic design lab, Programming fundamentals (C++)

Education

2015 – 2017	**National University of Computer and Emerging Sciences (FAST-NUCES)**
	MS – Computer Science (First Division)
	Thesis: Detection of Violent Content in Cartoon Videos Using Multimedia Content Detection Techniques
	Karachi, Pakistan
2013– 2014	**University of Karachi**
	MCS – Computer Science (First Division)
	Karachi, Pakistan
2009 – 2011	**University of Karachi**
	BCS – Computer Science (First Division)
	Karachi, Pakistan

Skills & Activities

Skills	Languages: Python, C, C++, C#, R, PHP, HTML, SQL.
	Programs: MATLAB, Visual Studio, MS Office, Anaconda.
	Soft Computer Skills: Teamwork, Project Management, Computer Vision and Pattern Recognition, Image Processing, Discriminant Analysis, Object Detection and Classification, Algorithm Design
Activities	Organizing and hosting various programming competitions and workshops at FAST-NUCES (2018-19)
Languages	English, Urdu, Mandarin (Chinese).
Events	Autumn School for Information Retrieval and Foraging Sciences,2017 https://www.uni-hildesheim.de/en/fb3/institute/iwist/veranstaltungen/asirf2016/

Journal Publication

Wang, Y., Bashir, S.M.A., Khan, M., Ullah, Q., Wang, R., Song, Y., Guo, Z., Niu, Y., 2022. Remote sensing image super-resolution and object detection: Benchmark and state of the art. Expert Systems with Applications, 197, 116793. https://doi.org/10.1016/j.eswa.2022.116793 (**Impact Factor: 8.5**, SCI Q1)

Conference Proceedings

Khan, M., Tahir, M.A. and Ahmed, Z., 2018, November. Detection of violent content in cartoon videos using multimedia content detection techniques. In *2018 IEEE 21st International Multi-Topic Conference (INMIC)* (pp. 1-5). IEEE. https://doi.org/10.1109/INMIC.2018.8595563

Hanif, M., Tahir, M.A., Khan, M. and Rafi, M., 2017, September. Flood detection using Social Media Data and Spectral Regression based Kernel Discriminant Analysis. In MediaEval. http://ceur-ws.org/Vol-1984/Mediaeval_2017_paper_43.pdf