

Dr. Qazi Ejaz Ali (Gold Medalist)

Dr. Qazi Ejaz Ali
Department of Computer Science
University of Peshawar, Pakistan.
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Identification

Current Position: Assistant Professor, Department of Computer Science, University of Peshawar, Pakistan.

Citizenship: Pakistani

Brief Statement

Dr. Qazi Ejaz Ali is the team lead for the Cyber Security and Privacy research group in the Department of Computer Science, University of Peshawar. He has more than 24+ years of teaching and research experience. He believes in student-centered, engaging, interactive and collaborating teaching and learning environments where students are equipped with the required knowledge, skills and competence to fit the emerging needs of society. He is using state of the art techniques in digital security, VANETs, ITS, digital forensics, and healthcare systems. He has successfully published more than 25 peer-reviewed impactful publications. He is the reviewer for multiple high-rank journals. He is possessing excellent administrative, verbal, and written communication skills, coupled with a proven track record in curriculum design for both graduate and undergraduate programs.

Academic Background

S. No.	Certificate/Degree	Division/Distinction	Attempt	Year
1	SSC (Science)	I ST	I ST	1995
2	HSSC (Pre-Engineering)	I ST	I ST	1997
3	Bachelor of Computer Science (BCS)	I ST & GOLD-MEDAL	I ST	1999
4	Master of Computer Science (MCS)	I ST & GOLD-MEDAL	I ST	2002
5	MS (Computer Sciences)	I ST & SILVER MEDAL	I ST	2008
6	Ph.D. (Computer Science) Department of Computer Science, University of Peshawar.	I ST , 4.00 CGPA	I ST	2020

Work Experience

1. Serving as Assistant Professor, Department of Computer Science, University of Peshawar, since February 19, 2010.
2. Served as Lecturer in Computer Science, Institute of Business and Management Sciences (IBMS), University of Agriculture Peshawar, from April 1, 2002, to February 18, 2010.
3. Served as Head of Department, Information Technology (IT), IBMS, University of Agriculture Peshawar, from February 2, 2004, to July 12, 2004.
4. Served as Head of the Department, Computer Communication Center, IBMS, University of Agriculture Peshawar, from February 1, 2003, to February 1, 2004.
5. Served as Deputy Chief Proctor, University of Agriculture Peshawar, from February 1, 2008 to January 31, 2009.
6. Remained as a technical member of the Purchase Committee, IBMS, University of Agriculture Peshawar, from 2005 to 2010.
7. Served as a member of the Board of Studies, IBMS, University of Agriculture Peshawar, from 2010 to 2013.
8. Served as Project Coordinator, Department of Computer Science, University of Peshawar, from October 1, 2011, to September 30, 2017.
9. Served as Staff Proctor at the University of Peshawar for the 2011-2012 session.
10. Served as Staff Proctor at the University of Peshawar for the 2013-2014 session.
11. Served as Staff Proctor at the University of Peshawar for the 2014-2015 session.
12. Served as a member of the Departmental Purchase Committee from January 1, 2012, to June 30, 2019.
13. Serving as a member of the Scholarship Committee, Department of Computer Science, University of Peshawar, since January 1, 2011.
14. Served as a member of the Admission Committee, Department of Computer Science, University of Peshawar, from 2011 to 2016, and reappointed in September 2024 to the present.
15. Serving as the Departmental Focal Person for the Prime Minister's Laptop Scheme since 2015.
16. Serving as the Secretary/Member of the Departmental Disciplinary Committee since 2022.
17. Program Team Lead for the BS Cyber Security program; designed and developed the program.
18. Served as a subject expert for various positions in the Khyber Pakhtunkhwa (KP) Public Service Commission and other KP department's selection processes.
19. Served as a subject expert at the University of Peshawar, contributing to the selection process for various computing disciplines.
20. Reviewer for IEEE Access, PeerJ, MDPI, PLoS one, Springer, and other reputable journals since 2018.

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21. HEC approved PhD supervisor since 22-04-2021.
22. 11 MS research students supervised.
23. Served as an internal/external examiner and member of thesis supervisory committees for multiple BS and Master's thesis.
24. Research Interests: Cyber security, IoT security, ITS security & privacy, Network security & privacy, Data security & privacy, Digital forensics, VANETs, ITS.

Courses Taught at BS, MS and Ph.D.

Network Security, Advanced Wireless Network Security, Information Security, Advanced Network Security, Cryptography and Data Security, Programming fundamentals, Object Oriented Programming, Computer Applications, Operating System, Data Communication, Computer Fundamentals, E-Commerce Applications and Technologies, Software Project Management, Operation Research, Advanced Operating System, Cloud Security.

Graduated Students

MS 11 graduated, 7 under supervision
PhD 01 under supervision

Graduated Students Theses - Selected and Recent Only

MS-2026	Secure and Efficient Digital Signature Scheme for Document Authentication using EDDSA and Watermarking (Mr. Sahibzada Hasanain)-2026
MS-2024	Efficient Revocation of Malicious Vehicles in VANETs (Mr. Mahtab Khan)-2024
MS-2024	VANETs Detection Mechanism Using Fog Computing for Collusion and Sybil Attacks (Mr. Asif Khan)-2024
MS-2023	Hash-Based Efficient Secure Model for Vehicular Ad Hoc Network (Mr. Murad Hussain)-2023
MS-2023	Securing Blockchain-Based Supply Chain Management: Textual Data Encryption and Access Control (Mr. Imran Khan)-2023

Certifications and Trainings

- HUAWEI Certification HCIA-Security.
- Cisco Certified Network Associate (CCNA), CCNP.
- Linux administration from Brains degree college Peshawar.
- Certificate on Enhancing Human Productivity & Management Skills from National Productivity Organization Ministry of Industries and production, Pakistan.

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- Certificate on Quality Assurance in Education from Pakistan Institute of Quality Control.

Internship

- Conducted an internship of 2-months with **PIAC** (Pakistan International Airlines Corporation) Peshawar from 16.06.2001 to 16.08.2001.

International Conferences/Symposiums Organizing Member

- International Conference on Computer Networks and Information Technology Baragali Summer Campus, University of Peshawar, Pakistan, 11th -13th July, 2011.
- Symposium on Emerging Technologies in Information Technology Baragali Summer Campus, University of Peshawar, Pakistan, 26th -28th August, 2012.
- Symposium on Emerging Technologies in Information Technology Baragali Summer Campus, University of Peshawar, Pakistan, 25th -27th August, 2013.
- Symposium on Emerging Technologies in Information Technology Baragali Summer Campus, University of Peshawar, Pakistan, 10th -12th August, 2015.

Honors and Awards

- Awarded University Gold Medal for academic excellence in Bachelor of Computer Science (BCS)
- Awarded University Gold Medal for academic excellence in Master of Computer Science (MCS)
- Awarded University Silver Medal for academic excellence in MS (Computer Sciences)
- Certificate of Honor/Award in NCC for serving as Company Commander

Professional Membership

- Member QUVAE

Invited Talks on

- Cyber Security Education for the Next Generation and Business Leaders.
- Security and Privacy Concerns in VANETs

Publications

- Efficient Revocation of Malicious Vehicles in VANETs. **Hunan Daxue Xuebao/Journal of Hunan University Natural Sciences**, vol. 52 (4), 2025. ISSN 1674-2974.

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- Securing Blockchain-Based Supply Chain Management: Textual Data Encryption and Access Control. **Technologies**, 12 (7), 2024. ISSN 2227-7080.
- VDMF: VANETs Detection Mechanism Using Fog Computing for Collusion and Sybil Attacks. **International Journal of Innovations in Science & Technology**, 6 (3), 2024. ISSN 2618-1630, 2709-6130.
- Block Chain Technology and Sustainable Development Goals: A Survey of Opportunities and Challenges in Pakistan. **Spectrum of Engineering Sciences**, 4 (2), 2026. ISSN 3007-3138, 3007-312X.
- Intelligent Network Slicing in 6G Networks Using Generative Reinforcement Learning and Diffusion Models. **International Journal of Innovations in Science & Technology**, 8 (2), 2026. ISSN 2618-1630, 2709-6130.
- Concentric Circular Shaped Patch Antenna to Array Antenna with Improved Performance for 5G Millimeter-Wave Communication. **Pakistan Journal of Engineering Technology and Science**, 13 (1), 2025. ISSN 2222-9930, 2224-2333.
- Towards Time-Critical Big Data Applications in the Internet of Vehicles (IOV). **Spectrum of Engineering Sciences**, 4 (1), 2026. ISSN 3007-3138, 3007-312X.
- Optimized Mode Selection in D2D Enabled B5G Networks: A Game Theory Approach. **International Journal of Innovations in Science & Technology**, 7 (2), 2025. ISSN 2618-1630, 2709-6130.
- Real-Time Vehicle Tracking in a Big Data Environment. **Spectrum of Engineering Sciences**, 4 (3), 2026. ISSN 3007-3138, 3007-312X.
- Gemstones Supply Chain Management through Blockchain Mechanism. **International Journal of Innovations in Science & Technology**, 6 (2), 2024. ISSN 2618-1630, 2709-6130.
- Cooperative Distributed Uplink Cache over B5G small cell networks. **Plos one**, 19 (4), 2024: e0299690. ISSN 1932-6203.

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- Software quality assurance using artificial intelligence techniques: a survey of the software industry of Pakistan. **Hunan Daxue Xuebao/Journal of Hunan University Natural Sciences**, vol. 50 (12), 2023. ISSN 1674-2974.
- Distributed uplink cache for improved energy and spectral efficiency in B5G small cell network. **PloS one**, 17 (5), 2022: e0268294. ISSN 1932-6203.
- Cluster-Based Group Mobility Support for Smart IoT. **COMPUTERS, MATERIALS and CONTINUA**, 68 (2), 2329-2347, 2021. ISSN 1546-2218, 1546-2226.
- Duplication elimination in cache-uplink transmission over B5G small cell network. **Eurasip Journal on Wireless Communications and Networking**, 185, 2021. ISSN 1687-1499, 1687-1472.
- xDBAuth: Blockchain based Cross Domain Authentication and Authorization Framework for Internet of Things. **IEEE Access**, Vol. 8 (1), pp. 58800-58816, 2020. ISSN 2169-3536.
- Blockchain based Permission Delegation and Access Control in Internet of Things (BACI), **Computers and Security**, vol. 86, pp. 318-334, 2019. ISSN 0167-4048.
- BCON: Blockchain Based Access CONtrol across Multiple Conflict of Interest Domains. **Journal of Network and Computer Applications**, pp. 102440, 2019. ISSN 1095-8592, 1084-8045.
- A Large Language Model-based Web Application for Contextual Document Conversation, **International Journal of Innovations in Science & Technology**, 6 (4), 2024. ISSN 2618-1630, 2709-6130.
- Security Issues and Research Opportunities in Wireless Body Area Networks, **International Journal of Innovations in Science & Technology**, 7 (3), 2025. ISSN 2618-1630, 2709-6130.

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- HES: Hash-Based Efficient Secure Model for Vehicular Ad Hoc Network. ***Pakistan Journal of Engineering Technology and Science***, 12 (1), 2024. ISSN 2222-9930, 2224-2333.
- ASPA: Advanced Strong Pseudonym-Based Authentication in Intelligent Transport System, ***Plos one***, vol. 14(8), pp. 1-26, 2019. ISSN 1932-6203.
- SPATA: Strong Pseudonym-Based AuthenticaTion in Intelligent Transport System, ***IEEE Access***, vol. 6 (1), pp. 79114-79128, 2018. ISSN 2169-3536.
- Issues, Challenges, and Research Opportunities in Intelligent Transport System for Security and Privacy, MDPI, ***Applied Sciences (Switzerland)***, vol. 8 (10), pp. 1964, 2018. ISSN 2076-3417.
- ERASBDA: Efficient Technique to Resist Sybil, Blackhole, and DoS Attacks in Underwater Wireless Sensor Network. ***Spectrum of Engineering Sciences***, 3 (12), 2025. ISSN 3007-3138, 3007-312X.
- Secure and Efficient Digital Signature Scheme for Document Authentication using EDDSA and Watermarking. ***International Journal of Innovations in Science & Technology***, 8 (5), 2026. ISSN 2618-1630, 2709-6130.
- Optimization of Large-Scale Graph Processing with Advanced Partitioning and Thread Grouping. ***International Journal of Innovations in Science & Technology***, 8 (4), 2026. ISSN 2618-1630, 2709-6130.
- Automated Abstractive Text Summarization Using Multidimensional Long Short-Term Memory. ***QUEST Research Journal***, vol. 21 (02), 2023. ISSN 2523-0379, 1605-8607.
- Forensic Investigation of Small-Scale Digital Devices: A Futuristic View. ***Frontiers in Communications and Networks***, vol. 4, 1212743, 2023. ISSN 2673-530X.
- The Evil of Pak-Afghan cross border smuggling and its impact on Pakistan's Economy. ***Pashto***, vol. 38 (637), 2008. ISSN 0555-8158, 2789-8342.

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- Problems in the way of Industrialization in the North West Frontier Province. **Pashto**, vol. 39 (639), 2009. ISSN 0555-8158, 2789-8342.
- On throughput optimization of multichannel single interface 802.11 protocol in wireless mesh network. In 2010 First International Conference on Parallel, Distributed and Grid Computing (PDGC 2010) (pp. 239-244). IEEE.
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Scholar Profiles/IDs

Google Scholar: <https://scholar.google.com/citations?user=wkxDvOQAAAAJ&hl=en>

Research Gate: <https://www.researchgate.net/profile/Qazi-Ali-11>

ORCID: <https://orcid.org/0000-0003-1199-0540>

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