

Tayyaba Tariq
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Career Summary

Work Experience

In **Department of Computer Science** (University of the Punjab, Lahore, Pakistan) working as **Assistant Professor since Jun 2009**

In Punjab University College of Information Technology, worked as a lecturer. Aug 2007 to Jun 2009

In FAST, worked as an External Instructor for two semesters

Lone Star Technologies is a US-based Software house. I worked there as a Software Developer (for vb.net) from March 2005 to June 2005. I worked on a SalesStrat project developed for the sales market in the United States of America.

Qualification

PhD (Computer Science)

MS (Computer Science)

(3rd Position, 83.70%)

B.Sc.(Hons.) Computer Science- 4 Years

University Merit Scholarships

F.Sc.(Biology, Physics, Chemistry)

1st Div

Publications and Research Work:

Tariq T, Suhail Z, Nawaz Z (2025) A review for automated classification of knee osteoarthritis using kl grading scheme for x-rays. *Biomed Eng Lett* 15(1):1–35. <https://doi.org/10.1007/s13534-024-00437-5>

Tariq, T., Suhail, Z. & Nawaz, Z. (2025) Ordinal classification for knee osteoarthritis x-rays using vision transformers. *Multimed Tools Appl* . <https://doi.org/10.1007/s11042-025-20804-3>

T. Tariq, Z. Suhail, and Z. Nawaz, "Knee Osteoarthritis Detection and Classification using X-rays," in *IEEE Access*, doi: 10.1109/ACCESS.2023.3276810. (IF: 3.48)

T. Tariq, Z. Suhail, and Z. Nawaz, "Machine Learning Approaches for the Classification of Knee Osteoarthritis" is presented in "The 3rd International Conference on Electrical, Computer, Communications, and Mechatronics Engineering," published at the IEEE Conference Proceedings. doi: [10.1109/ICECCME57830.2023.10252236](https://doi.org/10.1109/ICECCME57830.2023.10252236)

Aftab, E., Tariq, T., Bukhari, F., & Iqbal, W. (2022, September). Impact of COVID-19 on Online Retail in Pakistan. In 2022 International Conference on Emerging Trends in Smart Technologies (ICETST) (pp. 1-6). IEEE.

Arif, B., Qureshi, H. N., un Nisa, A., Shafi, Q., & Tariq, T. (2013, December). Web crawlers: To detect security holes. In 2013 International Conference on Open Source Systems and Technologies (pp. 133-140). IEEE.

“Educational Capability Maturity Model for Curriculum Design” In proceedings of 4th CIIT

Workshop on Research in Computing – CWRC Fall 2006”, November 10, 2006 at the COMSATS Institute of Information Technology, Attock, Pakistan. ISBN 978-969-8779-11-5 page 29-35

“Quality of Service for Components: Extending UML Profile for QoS and FT”

MS research thesis done at NUCES-FAST under the supervision of Dr. Fakhar ul Islam Lodhi and Dr. Qaiser Durrani

“Software Quality Assurance Research Center: Identification and definition of SQA processes and practices”

MS research work done under supervision of Dr. Qaiser Durrani

“Specification of JavaScript New-A subset JavaScript” MS research work done under the supervision of Dr. Fakhar ul Islam Lodhi

Trainings:

PHEC’s Training Workshop “Use of Generative Artificial Intelligence in Higher Education” 14-15 Feb 2024,

Software Architecture at Techlogix Knowledge share fair.

Achievements

- Bronze medal on securing 3rd position at NUCES-FAST in MS.
- University Merit Scholarships for Performance (i.e. always got one of top ten positions) in Academics during Bachelors.
- Performance star (bonus) while working at Lone Star Technologies.

Professional and Community Services:

- Reviewer for IEEE Transactions on Medical Imaging
- Reviewer for IEEE Access
- Reviewer for Cluster Computing Springer Nature
- Reviewer for Scientific Reports Springer Nature
- Reviewer for Archives of Computation Methods in Engineering Springer Nature
- Reviewer for BMC Medical Imaging
- Reviewer for BMC Musculoskeletal Disorders
- Reviewer for European Journal of Radiology Springer Nature
- Reviewer for Beni-Suef University Journal of Basic and Applied Sciences
- Reviewer for Journal of Imaging Informatics in Medicine

- Reviewer for 2024 18th International Conference on Open Source Systems and Technologies (ICOSST)

Languages

English (IELTS): Overall band score 7.5 29th May, 2010

Listening 8.0, Reading 8.5, Writing 6.5, Speaking 6.5

First Language: URDU (S, R, W, L)