

## Dr. MUDDASSIRA ARSHAD

PUCIT, University of the Punjab (New Campus), Lahore.

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### PROFICIENCY

- User Experience Design
- Natural language processing, Data Engineering
- Communication skills
- Chinese Language [HSK1]

### RESEARCH PROFILE

- ORCID <https://orcid.org/0000-0001-9337-6602>
- Researchgate <https://www.researchgate.net/profile/Muddassira-Arshad>
- Google Scholar <https://scholar.google.com/citations?user=72xDHK4AAAAJ&hl=en>

### QUALIFICATIONS:

- PhD Computer Science, University of the Punjab, Lahore. [October 2015 – December 2023]
- MPhil Computer Science, University of the Punjab, Lahore. [October 2012- August 2015]
- M.Sc. Computer Science, Quaid-i-Azam University, Islamabad. [February 1999- February 2001]

### PUBLICATIONS

M. Arshad, M. M. Yousaf and S. M. Sarwar, **Comprehensive Readability Assessment of Scientific Learning Resources**, in IEEE Access, DOI: 10.1109/ACCESS.2023.3279360.

M. Arshad, M. M. Yousaf, and S. M. Sarwar, **Dataset for Software Engineering Learning Resources**, in International Conference on Scientific and Innovative Studies, 2023 (Vol. 1, No. 1, pp. 118-123).

M. Arshad, A. Ali, **Urdu Treebank**, Science International, Sci. Int.(Lahore),28(4),3581-3585, 2016 ISSN 1013-5316;CODEN: SINTE 8

### EXPERIENCE

**March 2021 – to-date:** Assistant Professor, Department of Software Engineering, University of the Punjab, Lahore.

- Design and Teaching BS Software Engineering students the courses of Human Computer Interaction, Natural Language Processing, and Software Quality Engineering.
- Judge, UX Design Competition, PUCon24
- Member, Discipline Committee, Faculty of Computing and Information Technology University of the Punjab, Lahore.
- Member, Financial Aid Committee, Faculty of Computing and Information Technology University of the Punjab, Lahore.
- Subject Specialists at Federal Public Service Commission
- Advisor, Punjab Public Service Commission (PPSC), Lahore, conducted interviews as Advisor PPSC [upto December 2022]

- Examiner, PPSC, prepared recruitment exams for BPS-17 posts [upto December 2022]
- Examiner KPK, Public Service Commission.
- Reviewer, ICOSST: 2021, 2022

**December 2017 - March 2021:** Assistant Professor, Punjab University College of Information Technology Lahore.

- Teaching BS Computer Science, BS Software Engineering students the courses of Human Computer Interaction, Software Engineering, Object Oriented Analysis and Design
- Evaluation the FYPs as a member PUCIT Project Office. [December 2017 – March 2019]
- Advisor, Punjab Public Service Commission (PPSC), Lahore, conducted interviews for BPS-17 posts
- Member, Project Office, PUCIT, University of the Punjab, Lahore [Responsible for guiding Final Year Students for successful completion and evaluation of Final Year Projects.]
- Reviewer ICCOST: 2019

**August 2011 to December 2017:** Lecturer, Punjab University College of Information Technology, Punjab University, Lahore.

- Teaching courses of Human Computer Interaction, Software Engineering and Object Oriented Analysis and Design to BS Hons. (final semesters) and MSc Computer Science Students
- Supervising Final Year Projects (FYP) of BS & MSc students
- Co-supervising MPhil thesis titled "Efficiency Analysis of Different Syntactic Techniques using Benchmark Datasets"
- Evaluation the FYPs as a member PUCIT Project Office. [October 2016 – December 2017]
- Advisor, Punjab Public Service Commission (PPSC), Lahore, conducted interviews for BPS-17 posts
- Member, Project Office, PUCIT, University of the Punjab, Lahore.
- Judge, National Event Soft Expo 2016, arranged by PUCIT-ACM student Chapter, [May 21-22<sup>nd</sup>, 2016]
- Secretary, Sports Society, PUCIT, University of the Punjab, Lahore. [March 2012 – 2018]
- Secretary, Financial Aid Committee, PUCIT, University of the Punjab, Lahore [March 2012 – 2017]

**September 2001 to July 2011:** Lecturer, Computer Science Department, Quaid-i-Azam University, Islamabad.

- Member Board of Studies of Computer Science Department, Quaid-i-Azam University, Islamabad. [May 2006 to January 2009]
- Member Board of Faculty, Quaid-i-Azam University, Islamabad. [2008]
- Member of Project Coordination committee of M.Sc. Computer Science Final Semester Students. [September 2001 to February 2003]
- Represented "Faculty members of Public Sector Universities" in Panel Discussion arranged by LUMS, on "Problems in Present System and suggested Improvements in the Standards of Higher Education in Sub-Continent" [July 10, 2003]
- External Examiner at Comsats Institute of Information Technology, Islamabad to evaluate projects titled "Reconciliation of Phylogenetic trees" & "Bioinformatics Workflow Assessment" [January 2008]
- Student Advisor at Department of Computer Science, Quaid-i-Azam University, Islamabad [February 2005 to December 2005]
- Meeting Secretary in Faculty meetings held at department of Computer Science [December 2005 to March 2009]

## TALKS

Delivered talk on "Generative AI and Academics" at Annual Alumni Event of Computer Science Department, Quaid-i-Azam University, Islamabad. [February 25, 2024]

## ONLINE TRAININGS

- "Incorporating IEEE Xplore resources into your teaching: A dedicated session for lecturers", IEEE Xplore Training Series [May 11, 2023]
- "Integrating IEEE eLearning Courses into your teaching: A dedicated session for lecturers", IEEE Xplore Training Series [April 26, 2023]
- "Publishing your research & innovation with IEEE: Choices & Procedures", IEEE Xplore Training Series [November 9, 2022]
- "Preparing your research paper for publication: An IEEE Perspective", IEEE Xplore Training Series [October, 12, 2022]
- "IEEE Xplore Digital Library", IEEE Xplore Training Series [September 28, 2022]
- IEEE Standards: What, Why & How?, ", IEEE Xplore Training Series [June 22, 2022]
- IEEE New Resources for your technical research, IEEE Xplore Training Series [May 18, 2022]
- Quantitative Methods for Social Sciences and Humanities, AtomCamp [July 4, 2022 - August 08, 2022]
- Faculty Development Program [Program/Course Development, Citation/Referencing Style], Quality Enhancement Cell, University of the Punjab [Feb. 3 – 16, 2021]

## WORKSHOPS

- Attended training on Intellectual Property Rights and Patent Filing Punjab Higher Education Commission. [February 1 -2, 2024]
- Attended training on Use of Generative Artificial Intelligence in Higher Education. [January 18, 2024]
- 12th IEEE International Conference on OpenSource Systems and Technologies 2018 (ICOSST-18)" at UET, Lahore [December 19-21, 2018]
- National Big Data and Technologies Workshop 2018, arranged by LUMS [March 24-25, 2018]
- 9<sup>th</sup> ACM International Conference on Information and Communication Technology for Development (ICTD2017)/ Workshop on Accessibility Issues arranged by ITU [November 16- 19, 2017]
- Data Science in Practice- A hands-on workshop arranged by PUCIT [September 20 -24, 2017]
- UX Pakistan Conference/ Workshop on User Stories arranged by LUMS [April 22-23 2017]
- Workshop on **Writing a Publishable paper-understanding what it takes**, by Ms. Roshni Kumari, Chairperson ELTA [ December 09, 2016]
- Workshop on **Roles & Opportunities in Big data & Analytics**, at University of Lahore. [September 30 – October 2, 2016]
- Workshop on **Human Centered Design** by Michael Best at Information Technology University, Lahore, Pakistan. [November 17 -21, 2014]
- CIIT National Workshop on **Bioinformatics for Computer Scientists** at COMSTECH Secretariat, Islamabad. [May 21, 2007 - May 25, 2007]
- 2<sup>nd</sup> **Workshop** on 'Theoretical Computer Science' at Lahore University of Management Sciences (LUMS), Lahore [June 30, 2003 - July 12 2003]
- **Workshop** on 'Theoretical Computer Science' at Lahore University of Management Sciences (LUMS), Lahore [June 3, 2002 - June 15 2002]
- **Masters in Computer Science**, Quaid-i-Azam University, Islamabad. [February 1999 – January 2001]
- Seminar on Nano-Technologies arranged by PINSTECH at Pakistan Academy of Sciences. [July 31, 2003]
- IT Summit in August 1999, envisioning & implementing Plan 2010 by Chairman planning Commission [Aug. 15- 16, 1999]

## TEACHING EXPERIENCE

- Human Computer Interaction
- Database Design
- Software Quality Engineering
- Object Oriented Analysis and Design

- Software Engineering
- Software Design Methodologies
- Software Quality Assurance
- Rapid Application Development
- Theory of Automata
- Programming Fundamentals
- Computer Graphics
- Computer Architecture
- Discrete Structures
- Introduction to Computing

### **PROJECT SUPERVISIONS:**

Supervised over 90 M.Sc. final semester students' & BS Hons. Final Semester students' projects (at Quaid-i-Azam University, Islamabad and at University of the Punjab, Lahore), including but not limited to android applications, web based information systems, load management & balancing techniques, CASE tools, steganography techniques, and games.

### **OTHER PROJECTS**

- Worked on Quality Assurance of "Story of Pakistan" with **Jin Technologies (Pvt.) Ltd, Islamabad**. [April 2003]
- Worked with **Pakistan Revenue Automation Limited, Islamabad**, for development of Intranet based procurement system [August 2000 to February 2001] using **SQL Server 7.0** and **ASP 3.0** with **VbScript** and **JavaScript**.
- Served in **ALCATEL Pakistan Pvt. (Ltd.), Islamabad** for corrective maintenance, and technical document preparation of FoxPro based Payroll system [July 2000].
- Worked with **IT development Program 2010**, Planning Commission, Govt. of Pakistan as an Intern, developed Website for Computer Center of Planning Commission of Pakistan. [01 August 1999 to 31 September 1999]
- Development & Presentation of 'Jawaid Azfar Computer Center Website' (Planning Commission of Pakistan) to Minister of Planning and Development as an Intern [September 1999]

### **EXTRA CURRICULAR ACTIVITIES**

Participated and Won prizes in Swimming competitions held at The Defence Club Lahore.  
 Participated and Won prizes in Badminton tournaments for faculty by PU Academic Staff Association.  
 Participated in National day Swimming Gala at Sports Complex Islamabad [August 2008]  
 Participated as Jury Team Member in South Asian Swimming Gala [September 2007]  
 Participated and won prizes in extracurricular activities at school level [1988]  
 Won presidential certificate for the performance in Quaid-i-Azam day celebration at Aiwan-e-Sadar, Islamabad [1987].