

Dr. Madeeha Aman

Ph.D. (Computer Science)



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Summary

Ph.D. in Computer Science with specialization in Distributed Mobility Management in 5G and Future Networks. Thirteen years of skilled experience focusing on teaching core computer science courses to graduate and under graduate students at a university level. 10 years of research and development experience with publications in impact factor journals. Skilled experience as a Master Trainer in training lecturers and professors to use Learning Management System (LMS), Content Management System (CMS) and Google Meet for online teaching purposes at the University of Peshawar. Additional experience has been gained in website maintenance by being the administrator for the official website of College of Home Economics, University of Peshawar.



Work Experience

University of the Punjab, Lahore

Assistant Professor of Information Technology

May 2023 – to date

Appointed at Faculty of Computing and Information Technology aka PUCIT. Responsibilities include teaching core computer science courses to under graduate and graduate students. Research and Supervision.

Punjab Tianjin University of Technology, Lahore

Lecturer in Computer Science

May 2021–July 2022

Responsibilities include teaching core computer science courses to engineering under graduate students. Head of IT section. Paper Setting and Marking. Research and Supervision. Marking assignments and Quizzes. Supervising Presentations.

University of Peshawar

Feb 2012–Apr 2021

Lecturer in Computer Science

Responsibilities include teaching core computer science courses to graduate and under graduate students at *College of Home Economics*, University of Peshawar. Paper Setting and Marking. Research and Supervision. Marking assignments and Quizzes. Supervising Presentations.

University of Peshawar

Feb 2011 – June 2012

Visiting Lecturer in Computer Science

Responsibilities include teaching core computer science courses to graduate and under graduate students at *Department of Computer Science*, University of Peshawar. Paper Setting and Marking. Marking assignments and Quizzes.

University of Peshawar

Oct 2010 – Feb 2011

Visiting Lecturer in Computer Science

Responsibilities include teaching Computer Fundamentals to BS 3rd Semester Students at *Department of Zoology*, University of Peshawar. Paper Setting and Marking. Marking assignments and Quizzes.

University of Peshawar

Feb 2009 – Jan 2011

Teaching Assistant

Teaching computer science courses to graduate and under graduate students at *Department of Computer Science*. Responsible for paper setting and student assessments.

First Women Bank Limited

June 2007 – Aug 2007

Internship

Training included Sorting, Billing, Remittances, Supplementary, Account Opening, Transfer Book, Token Book.



Education

University of Peshawar

2020

Ph.D. in Computer Science

University of Peshawar

2013

MS in Computer Science

University of Peshawar

2008

Bachelors in Computer Science

Allama Iqbal Open University, Islamabad

B.Ed

2020

Federal Board of Intermediate and Secondary Education Islamabad

HSSC

2004

Federal Board of Intermediate and Secondary
Education Islamabad 2002
SSC



Certifications

British Council Jan 2021
IELTS Academic Overall Band Score 7.5
TRF No. 20PK006749TM015A

Google Analytics Academy Oct 2020
Introduction to Data Studio

National Testing Service, Pakistan Sep 2011
NTS Certified Teacher
National Teachers Database Program (NTD 2011- II)
Masters (Computer Science), Score: 66



Research & Publications

- [1] Kanwal Imran, Saeed Mahfooz, Muhammad Zubair, Haseeb Malik, Qazi Ijaz, Madeeha Aman, **“Cluster-based Group Mobility Support for Smart IoT”**, CMC – Computers Materials and Continua, Vol.68, No.2, 2021, pp.2329-2347, 13 April 2021. **Impact Factor: 4.89**
- [2] Madeeha Aman, Saeed Mahfooz, Muhammad Zubair, Neelam Mukhtar, Kanwal Imran, Shah Khusro, **“Tunnel-Free Distributed Mobility Management (DMM) Support Protocol for Future Mobile Networks”**, Electronics, Volume 8, Issue 12, December 2019. **Impact Factor: 2.412**
- [3] Abeera Ilyas, Madeeha Aman, Nasir Saeed, **“Delay analysis of an improved WiMAX MacroFemto handover technique and cell selection algorithm”**, Wireless Personal Communications, Springer US, December 2015, Volume 85, Issue 4, pp 2157–2168, ISSN: 0929-6212 (Print) 1572-834X (Online), **Impact Factor: 1.200**
- [4] Madeeha Aman, Saeed Mahfooz, Waheed Ur Rehman, **“A Handoff using Guard Channels Scheme (HGCS) for Cognitive Radio Networks”**, Global Journal of Computer Science and Technology (GJCST), December 2011, Volume 11, Issue 20, pp 76 – 84, ISSN: 0975-4350 (Print) 0975 – 4172 (Online).
- [5] Madeeha Aman, Saeed Mahfooz, Waheed Ur Rehman, **“Handoff delay in Cognitive Radios – A concept paper on utilization of Guard Channels”**, IEEE 1st International Conference on Computer Networks and Information Technology (IEEE ICCNIT’11), July 2011, pp. 211 – 215, ISBN: 978-1-61284-941-6, ISSN: 2223-6317 (Print).



Conference Presentations

- [1] Madeeha Aman, **“Handoff delay in Cognitive Radios – A concept paper on utilization of Guard Channels”**, Paper presented at the IEEE International Conference on Computer Networks and Information Technology (IEEE ICCNIT), 11 – 13 July 2011.



Conferences Attended

- [1] 1st International Conference on Computer Networks and Information Technology (IEEE ICCNIT’11), Baragali Summer Campus, University of Peshawar, Pakistan. 11 – 13th July, 2011.
- [2] 1st National Conference on Home Economics: Exploring New Horizons 2014, Baragali Summer Campus, University of Peshawar, Pakistan. 3 – 4 June, 2014.



Research Interests

Wireless and Mobile Communications, 5G and Future Networks, SDN, IoT, Distributed Mobility Management, Network Protocols, Digital/ Network/ Cyber Security, Mobile Social Networks, Cognitive Radio Networks



Trainings

University of Peshawar 15-16 May 2020
Training of Master Trainers on Sakai (LMS) and Google Meet



Seminars Attended

- [1] ‘KERO AITEMAD’ – Women Empowerment Seminar by Nestle Pakistan, Peshawar, Pakistan. 18th Feb, 2016.



Languages

English	Fluent
Arabic	Basic Skills
Urdu & Pashto	Native



Courses Taught (2009 – 2021)

Computer Programming
Single Chip Microcomputer Technology and Applications
Research Methods
Programming Language I – C++
Network Strategies
Network Security

Digital Logic and Computer Design
Introduction to Computer Networks
Data Communication and Computer Networks
Software Engineering
Mobile and Wireless Communications
Operating System
Computer Studies I
Statistics II
Web Designing
Computer Graphics
Database I
Introduction to Computers
Fundamentals of IT
Computer Graphics and Visual Programming
Statistics I

Other Responsibilities

- Paper Setter for various universities in KP, Pakistan, for different computer science under graduate courses.
- Master Trainer - Training the faculty of 10 departments at the College of Home Economics in using Learning Management System (LMS), Content Management System (CMS) and google meet to ensure the teaching learning process continues smoothly during COVID-19 . 3rd June, 2020, 18 – 21 July, 2020.
- Administrator of the official website for College of Home Economics, Peshawar, September 2019 – April 2021.
- Member Organizing Committee - International Conference on Computer Networks and Information Technology (ICCNIT) 2011.
- Member Organizing Committee - 1st National Conference on Home Economics: Exploring New Horizons 2014, Baragali Summer Campus, University of Peshawar, Pakistan. 3 – 4 June, 2014.
- Member Organizing Committee – Culinary course offered at College of Home Economics, University of Peshawar, 7 – 14 Dec, 2015.
- Research Paper Reviewer: International Conference on Computer Networks and Information Technology (ICCNIT) 2011.
- Revised and updated course contents for Computer Graphics and Web Designing for B.Sc Home Economics in Board of Studies meeting held in 2015.
- Revised and updated course contents for Web Designing for BS Home Economics semester system program, in Board of Studies meeting held in 2015.
- Member Time Table Committee, College of Home Economics, University of Peshawar, 2014 – 2016.
- Member College of Home Economics Annual Report Committee, University of Peshawar, 2013 – 2015.
- Co-admin Official Facebook Page of 1st National Conference on Home Economics: Exploring New Horizons

2014.

- Co-admin Official Facebook Page of College of Home Economics, University of Peshawar, 2013 – 2014.
- Member organizing committee of 16th Convocation of College of Home Economics, University of Peshawar, held on 2nd March 2013.
- Member Staff Proctorial Board, College of Home Economics, University of Peshawar. 2012 – 2014.
- Participated in Girl's Educational Camp held on 14 April 2000, 22 September 2000 and 12 February 2004 with the cooperation of World Assembly of Muslim Youth (WAMY) in Riyadh, Saudi Arabia.



References

Furnished upon request.