

ASMA BASHARAT

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OBJECTIVE

I am looking forward to join a team of innovative, dynamic, and motivated individuals in an organization that excels in providing career building and growth opportunities.

EDUCATION

PhD Computer Sciences Universiti Teknologi Malaysia , Malaysia.	2020 - On-going
MS Information Security National University of Sciences and Technology, Rawalpindi, Pakistan. CGPA 3.8 (out of possible 4.0).	2006 - 2008
BS (Hons.) Computer Science Punjab University College of Information Technology, University of the Punjab, Lahore. CGPA 3.60 (out of possible 4.0).	2001 - 2005
FSc (Computer Sciences) Lahore College for Women University, Lahore. A Grade.	1999 - 2001
Matriculation The Punjab School, Lahore. A+ Grade.	1997 - 1999

EXPERIENCE

Lecturer **Kinnaird College for Women, Lahore**
Jan 18 – Till date – Full Time

- Serving as regular Faculty in the Department of Computer Sciences in KC, Lahore.
- Teaching students of undergraduate and postgraduate level.
- Supervision for undergraduate students for their Final Year Projects.
- Supervision for postgraduate students for their thesis.
- National Computing Education Accreditation Council (NCEAC), Higher Education Commission Liaison since June 2019.
- IEEE Kinnaird Student Branch Counselor since August 2019.
- Member of admission committee
- Member for project evaluation committee.

Visiting Faculty **FCC University, Lahore**
Aug 16 – July 17

- Serving as visiting Faculty in the Department of Computer Sciences in FCC University, Lahore.

Visiting Faculty **BZ University, Multan**
Sep 15 – Jan 16

- Served as visiting Faculty in the Department of Computer Sciences in Bahauddin Zakariya University, Multan. Taught the course of Network Security to final year students of BSCS.

Assistant Director **GC University, Lahore**
April 12 – Oct 12 – Full Time

Served at an administrative and teaching post in the Department of Computer Sciences in GC University, Lahore.

Assistant Professor **GC University, Lahore**
Nov 11 – April 12 – Full Time

- Served as Assistant Professor in the Department of Computer Sciences in GC University, Lahore.

Lecturer**GC University, Lahore****April 09 – Oct 11 – Full Time**

- Served as Lecturer in the Department of Computer Sciences in **GC University, Lahore**.
- Course tutor for Post Graduate and Graduate courses
- Providing supervision to graduate and post graduate projects.

Faculty Trainer**GC University, Lahore**

- Conducted an 8-session DFDW (Departmental Faculty Development Workshops) in the Department of Computer Science, GC University to enhance the andragogical and assessment skills of the faculty members. (Dec 2010)
- Conducted and coordinated in three day *Advanced Faculty Development Training Program on Ensuring Training Effectiveness* to 30 faculty members from various departments of GC University.

Visiting Faculty**UMT, Lahore****Feb 09 – June 09**

- Served as visiting Lecturer in SST department in **University of Management and Technology, Lahore**.

Research Assistant**NUST****July 07 – Dec 08 – Full Time**

- Worked as Research Assistant for the Security Analysis of Interleave Division Multiple Access at **National University of Science and Technology, Rawalpindi**.

Counselor**IEEE Student Branch GCUL****April 09 – April 12**

- Received *Best Student Branch* and *Best student volunteer* in 2011.
- Successfully coordinated and organized *Pakistan Student Congress 11*
- Received *IEEE Recognition Certificate* in 2009 and 2010 for contributions to IEEE as a Student Branch Counselor.
- Served as the IEEE GCUL student branch counselor. Have organized and supervised several workshops and events.
- IEEE GCUL was recognized as one of the most hardworking and active branches of the year 2009.

ACHIEVEMENTS AND AWARDS

University Merit Scholarships for Performance in Academics throughout MS Information Security awarded by National University of Sciences and Technology (NUST).

INTERNATIONAL TRAINING

Participated in the Advanced Faculty Professional Development Program organized by Higher Education Commission on "*Ensuring Training Effectiveness*" from June 13 to July 1, 2011 at the Asian Institute of Technology, Thailand.

MASTER TRAINERS PROGRAM

Participated in the 14th Mater Trainers Faculty Professional Development Program (MT-FPDP) Sep 29 – Nov 13, 2010. An in-service orientation program conducted by the Learning Innovation Division, Higher Education Commission to equip Higher Education teaching faculty with the latest pedagogical and research skills. The faculty members developed as Master Trainers disseminate similar training in their respective institutions.

RESEARCH PUBLICATIONS**Journal Publications:**

- Shahzadi, Shumaila, Fahad Ahmad, **Asma Basharat**, Madallah Alruwaili, Saad Alanazi, Mamoona Humayun, Muhammad Rizwan, and Shahid Naseem. "*Machine Learning Empowered Security Management and Quality of Service Provision in SDN-NFV Environment.*" *Computers, Materials and Continua*, vol. 66, no. 3, pages:2723 – 2749, January 2021, Tech Science Press.

- Aqeel Feroze, **Asma Basharat**, *Security Analysis of Mobile Banking Services in Pakistan*, Asian Transactions on Fundamentals of Electronics, Communication & Multimedia, Volume: 01, Issue: 03, June 2011, pages 13-17, ISSN 2221-4305

Conference Publications:

- Syed Ali Raza, Tanwir Ahmad, **Asma Basharat**, *SKANS: Secure Knots at the ends*, 11th Islamic Countries Conference on Statistical Sciences (ICCS-11) to be held 19-22 Dec, 2011 in Lahore, Pakistan.
- M. Sohail Iqbal, **Asma Basharat**, “*Dynamic ZBAC: Zone Based Access Control Security Model*”, National Conference of Information Insurance NCIA 2010 held on 10-11 August, 2010 at Rawalpindi, Pakistan.
- **Asma Basharat**, Imtiaz A. Khokhar, Saeed Murtaza, “*CDMA versus IDMA for subscriber cell density*” accepted in Innovations in Information Technology IIT 08 held on 16 - 18 Dec 2008 in UAE.
Pages 520-524, Year of Publication: 2008, ISBN:978-1-4244-3396-4
- **Asma Basharat**, Imtiaz A. Khokhar, Saeed Murtaza, “*Security Analysis of Interleave Division Multiple Access: Next Competitor*” accepted in 4th International Conference on Wireless and Mobile Communication ICWMC 08 held on 27 July- 1 Aug 2008 at Athens Greece.
Pages 274-277, Year of Publication: 2008, ISBN:978-0-7695-3274-5
- Rabia Sirhindi, **Asma Basharat**, Ahmad Raza Cheema, “*Depth-in-Defense Approach against DDoS*”, accepted in 6th WSEAS International Conference on Information Security and Privacy ISP 2007 held on 14-16 December 2007 at Tenerife, Spain.
Pages 102-106, Year of Publication: 2007, ISSN: 1790-5117, ISBN: 978-960-6766-23-7
- **Asma Basharat**, Rabia Sirhindi, Ahmad Raza Cheema, “*A Novel Solution for IP Spoofing Attacks*” accepted in 6th WSEAS International Conference on Information Security and Privacy ISP 2007 held on 14-16 December 2007 at Tenerife, Spain.
Pages 107-110, Year of Publication: 2007, ISSN: 1790-5117, ISBN: 978-960-6766-23-7

Project & Poster Presentation:

- Khalid N, Khan S.A, Sikandar M, Basharat A, (April 2019), First International Conference on Science, Technology and Innovation, KCW.

AREAS OF INTEREST

Data and Network security, Information Security Management, Cryptography, Cryptanalysis, Access control models, Wireless Sensor Networks, Wireless Body Area Networks, Software Defined Networking, and Security challenges in IoT.