



EMPLOYEE PROFILE

DEPARTMENT OF COMPUTER SCIENCE
GOVERNMENT COLLEGE UNIVERSITY
LAHORE



Dr. Asma Kanwal

Lecturer, Computer Science

Area of Interest:

- Machine Learning, Cognitive Systems, Machine Consciousness, Bioinformatics

Tel # (Off):

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I received my Ph.D. Degree in Computer Science from National College of Business Administration and Engineering, Lahore, Pakistan. I have done my MS Degree in Computer Science from Government College University (GCU) Lahore, Pakistan. I am serving as a Lecturer at GCU Lahore, Pakistan since 2011. My research interests include cognitive systems, machine consciousness, machine learning, natural language processing, image processing, data mining, computer vision, and bioinformatics. I have contributed to more than 19 research publications, which are published in well reputed national and international journals and conferences. I have supervised almost more than 14 research thesis at MS level.

Publications:

Book Chapters:

1	Syed Tanweer Shah Bukhari, Asma Kanwal, Wajahat Mahmood Qazi (2019), "Machine Imagination: A Step Toward the Construction of Artistic World Through Storytelling", Recent Trends and Advances in Wireless and IoT-enabled Networks, Publisher: Springer, DOI: 10.1007/978-3-319-99966-1_18
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Journal Papers:

2	Misbah Javaid, Asma Kanwal (2022), "Emotion Based Regulatory System for Metacognition", IJCIS.
3	Asma Kanwal, Ayesha Abdullah (2022), "Working Memory Model for Multi-party Interaction Using Audiovisual Perception", JNCBAE.
4	Asma Kanwal, Sagheer Abbas, Taher M. Ghazal, Allah Ditta, Hani Alquhayz, Muhammad Adnan Khan (2022), "Parallel Selective Attention using the Psychophysiological States as the basis for Functional Cognition", Sensors, (impact factor: 3.847)
5	Muhammad Adnan Khan, Asma Kanwal, Sagheer Abbas, Faheem Khan, Taeg Keun Whangbo (2021), "Intelligent Model for Predicting the Quality of Services Violation", CMC, (impact factor: 3.772)
6	Sagheer Abbas, Yousef Alhwaiti, Areej Fatima, Muhammad A. Khan, Muhammad Adnan Khan, Taher M Ghazal, Asma Kanwal, Munir Ahmad and Nouh Sabri Elmitwally (2021), "Convolutional Neural Network Based Intelligent Handwritten Document Recognition", CMC, (impact factor: 3.772)

7	Nouh Sabri Elmitwally, Asma Kanwal, Sagheer Abbas, Muhammad A. Khan, Muhammad Adnan Khan, Munir Ahmad and Saad Alanazi (2021), "Personality Detection Using Context Based Emotions In Cognitive Agents", CMC, (impact factor: 3.772)
8	Asma Kanwal, Wajahat Mahmood Qazi, Muhammad Atif Altaf, Atifa Athar, Mahmood Hussain, Syed Tanweer Shah Bukhari (2021), "A Step Towards the Development of Socio-cognitive Agent" Journal of Computer Science and Information Technology
9	Muhammad Ali Dildar, Muhammad Asif, Asma Kanwal, Maaz Bin Ahmad and Syed A. Gilani (2019), "RESTCub: A Language Independent Middleware for Cognitive Robot", International Journal of Humanoid Robotics, (impact factor: 1.616)
10	Tahir Alyas, Gulzar Ahmad, Yousaf Saeed, Muhammad Asif, Umer Farooq, Asma Kanwal (2019), "Cloud and IoT based Smart Car Parking System by using Mamdani Fuzzy Inference System (MFIS)", The Isc International Journal Of Information Security.
11	Syed Ali Raza, Muhammad Azam, Dr. M. Shehzad Asif, Dr. Syed M. Ahsan, Asma Kanwal (2016), "Learning Based Integrated Metacognitive Architecture for Conscious Agents (LIMA)", IJCSIS, (impact factor: 0.702)
12	Asma Kanwal, Muhammad Usman Ghani Khan, Kashif Ali Khan (2016), "Real Time Hand Gesture Recognition Using PC Camera", IJCSIS, (impact factor: 0.702)
13	Nasir-ud-Din, Afshan Kaleem, Wajahat Mahmood Qazi, Zeeshan Iqbal, Asma Butt, Asma Kanwal, Daniel C. Hoessli and Muhammad Iqbal Choudhary (2012), "Sequence Analysis of the Terminal Sugars Gal and GalNAc of Oligosaccharide Chain", Pak J Zoology, (Impact factor: 0.831)

Conference Papers:

14	Salman Muneer, Asma Kanwal, Amer Hani Al-Kassem, Arslan Munir, Sai Geeta, Iqra Rustam (2023), "Conceptual Cognitive Model for Human-Machine Social Contact and Emotion based Generated Behaviors", 2023 International Conference on Business Analytics for Technology and Security (ICBATS).
15	Syed Ali Raza, Asma Kanwal, Harish K G Nair, Atif Ishaq Khan, Iftikhar Naseer, Muhammad Amjad, Drkaramath Ateeq, Mahmoud Al Sakhnani (2023), "User Feedback based Trust Analysis in Cloud Computing using Machine Learning Approach", 2023 International Conference on Business Analytics for Technology and Security (ICBATS).
16	Asma Kanwal, Arif Wicaksono Septyanto, Muhammad Hassan Ghulam Muhammad, Raed ahmad Said, Muhammad Farrukh, Muhammad Ibrahim (2022), "Adaptively Intelligent Meta-search Engine with Minimum Edit Distance", 2022 International Conference on Business Analytics for Technology and Security (ICBATS)
17	Muhammad Hassan, Asma Kanwal, Muath jarrah, Manas Pradhan, Arshad Hussain, Beenu Mago (2022), "Smart City Intelligent Traffic Control for Connected Road Junction Congestion Awareness with Deep Extreme Learning Machine", 2022 International Conference on Business Analytics for Technology and Security (ICBATS)
18	Syed Ali Raza, Asma Kanwal, Muhammad Rehan, Kashif Ali Khan, Muhammad Aslam (2016), "ASIA: Attention Driven Pre-Conscious Perception for Socially Interactive Agents", Information and Communication Technologies (ICICT), 2015 International Conference, IEEE, May 2016
19	Asma Kanwal and Wajahat Mahmood Qazi (2011), "Cognitive Model for Social Bots to Learn Opponents Mixed Strategy using Adaptive Neural Networks", ICCS-11, December 2011

Qualification:

Ph.D (Computer Science)	2022
National College of Business Administration and Economics, Lahore	
MS (Computer Science)	2011
Government College University, Lahore	
BS Hons (Computer Science)	2007
Punjab University College of Information Technology, Lahore	

Experience:

- Has worked as **Lecturer** in “**Department of Computer Science**”, **GC University, Lahore** from September, 2011 to till now.
- 6 months working experience as **Software Engineer** in **Institute of Molecular Sciences and Bioinformatics**.
- 5 months working experience as a **Jr. Computer Instructor** in **Vocational Training Institute, Shadman**.

Lecturer

Department of Computer Science, Government College University Lahore

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