# Muhammad Umer Farooq

Lecturer, Department of Computer Science & IT, Faculty of Bio-Sciences
Cholistan University of Veterinary and Animal Sciences, Bahawalpur
umarfarooq@cuvas.edu.pk



## Research Interests

Green computing; power-aware applications; CNN modeling; parallel computing; IoT solutions; Android development; genetic algorithms; university online examination systems

## Education

| | |
|---|---|
| 2016 – 2018 | **MS Computer Science** (CGPA 3.24/4.00), NUCES-FAST, Islamabad. Thesis in green computing. |
| 2011 – 2015 | **BS Computer Science** (CGPA 3.26/4.00), The Islamia University of Bahawalpur |
| 2009 – 2010 | **F.Sc.**, BISE Bahawalpur |
| 2007 | **Hifz-e-Quran** (80/100), Wifaq, Multan |
| 2003 – 2004 | **Matriculation (Science)**, BISE Bahawalpur |

## Academic Experience

| | |
|---|---|
| Mar 2024 – to date | **Lecturer**, Cholistan University of Veterinary and Animal Sciences, Bahawalpur |
| Sep 2020 – Mar 2024 | **Visiting Faculty**, Department of Computer Science, The Islamia University of Bahawalpur |
| Oct 2020 – Feb 2021 | **Visiting Lecturer**, Cholistan University of Veterinary and Animal Sciences, Bahawalpur. Programming Fundamentals, BS(CS). |
| From Feb 2020 | **Visiting Lecturer**, NCBAE. Mobile Application Development, BS(CS) and MCS. |
| Oct 2019 – Oct 2020 | **Lecturer**, Shahida Islam Medical Complex. Introduction to Computer, DPT and Post-RN; Computer Skills, CNA. |
| From Apr 2019 | **Lecturer**, GLIMS Institute of Modern Studies. Object Oriented Programming, Database Management Systems and Artificial Intelligence. |
| Jan 2018 – Jan 2019 | **Research Assistant**, NUCES-FAST, Islamabad. Green computing and energy estimation for Android; energy-based gap sequences for Shell Sort. |
| Jul 2015 – Aug 2016 | **Lecturer**, The City College, Bahawalpur. Database, C++, Java and Introduction to Computer; short courses; lab administration. |

## Other Professional Experience

| | |
|---|---|
| 2024 – to date | **Deputy Controller of Examinations**, Cholistan University of Veterinary and Animal Sciences, Bahawalpur |
| Feb 2023 – Mar 2024 | **Director IT**, Bahawalpur Medical College, Bahawalpur |
| From Feb 2021 | **Freelance Venue Staff**, IELTS Examination Department, British Council |
| | **Senior Software Developer**, Cholistan University of Veterinary and Animal Sciences, Bahawalpur |
| Jun 2014 – Oct 2014 | **Android Developer**, CAS Software House, Bahawalpur |

## Publications

M. U. Farooq, S. U. Rehman Khan and M. O. Beg, "MELTA: A Method Level Energy Estimation Technique for Android Development," 2019 International Conference on Innovative Computing (ICIC), Lahore, Pakistan, 2019, pp. 1-10, doi: 10.1109/ICIC48496.2019.8966712.

S. U. R. Khan, M. U. Farooq and M. O. Beg, "Big Data Analysis of Stack Overflow for Energy Consumption of Android Framework," 2019 International Conference on Innovative Computing (ICIC), Lahore, Pakistan, 2019, pp. 1-9, doi: 10.1109/ICIC48496.2019.8966682.

**Accepted:** M. O. Farooq and M. O. Beg, "MELMA: A Method Level Energy Estimation Methodology for Android," 8th International Conference on Smart Cities and Green ICT Systems (SMARTGREENS), Heraklion, Crete, Greece, 2019.

## Awards

| | |
|---|---|
| 2013 | Shield for 3rd position, Coding Crusader Java/C++ coding competition, UCET |
| 2013 | Participant, Java/C++ coding competition, Expo Center Lahore |

## Skills

| | |
|---|---|
| Languages | Urdu (Excellent), English (Fluent) |
| Programming | C++, Java, Python, PHP, HTML, LaTeX |
| Tools | Visual Studio, Android Studio, Eclipse, Dev-C++, Turbo C |
| University systems | Campus Management System and Examination System for Cholistan University of Veterinary and Animal Sciences |
| Android apps | SMS Cleaner, Flashlight, Hizbul Azam, Calculator, Game Bubble, Anmool Moti |

References available on request.