WALEED IQBAL
Computational Social Scientist | Electrical Engineer | Computer Scientist

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A proactive and enthusiastic engineer and computer scientist, having more than 08 year experience in IT industry and R&D sector, with excellent academic record through distinctions and competent practical knowledge of the field.

🎓 EDUCATION

2020–2023 Doctor of Philosophy (Ph.D.), Computer Science
> *Queen Mary University of London, UK*
> **Thesis :** Information Diffusion in Community Specific Social Networks.

2015–2018 M.S. Computer Science
> *Information Technology University, Lahore, Pakistan*
> **Thesis :** Analysis of Computer Networking Research : A Bibliometric Study.

2009–2013 B.Sc. Electrical Engineering
> *University of The Punjab, Lahore, Pakistan*
> **Thesis :** Analysis of VoIP Structure and Standards : {Deployment of an Open Source VoIP Network for an Organization with Enhanced Services}

2007–2009 F.Sc. Pre-Engineering
> *BISE, Lahore, Pakistan*

2005–2007 Matriculation (Biology Group)
> *BISE, Lahore, Pakistan*

⚙ ACADEMIC AND PROFESSIONAL EXPERIENCE

Present
January 2020 Ph.D Fellow, QMUL, UK
> Content Moderation Mechanism of Large-scale Social Networks
> Measurements Analysis of Internet Protocol Standards

Present
September 2020 Lab Demonstrator, QMUL, UK
Courses :
> ECS401U Logic and Discrete Structures (Semester A 2019/20)
> ECS781A Cloud Computing (Semester A 2019/20)
> ECS637U/ECS757P Digital Media and Social Networks (Semester B 2020/21)
> ECS781P Cloud Computing (Semester B 2020/21)
> ECS417 Fundamentals of Web Technologies (Semester B 2020/21)
> ECS766P Data Mining (Semester C 2020/2021)
> ECS607U Data Mining (Semester A 2021/2022)
> ECS780P Computer Programming (Semester A 2021/2022)

December 2019
September 2019 Teaching Assistant and Lab Instructor, ITU, LAHORE, Pakistan
> Preparation of course and lab material for Computer and Communication Networks course for BS Electrical Engineering 2016 final year.
> Conduct and evaluation of students in labs.
> Evaluation of assignments and quizzes in course.
> Conduct supplementary tutorials to support course contents.

August 2019 June 2018	**Affiliated Researcher, IHSAN Lab, ITU, Lahore, Pakistan** Project(s) : › Scientometric Analysis of COmputer Networking Research. › Publication titled "Five decades of the ACM special interest group on data communications (SIG-COMM) a bibliometric perspective" in SIGCOMM Computer Communication Review. › Publication titled "A Bibliometric Analysis of Publications in Computer Networking Research" in Springer Scientometrics Journal.
March 2018 September 2017	**Teaching Assistant and Lab Instructor, ITU, Lahore, Pakistan** › Preparation of course and lab material for Introduction to Programming course for BS management and Technology 2017 freshmen. › Conduct and evaluation of students in labs. › Evaluation of assignments and quizzes in course.
June 2017 November 2015	**Graduate Fellow (Research Associate and Teaching Assistant), ITU, Lahore, Pakistan** Projects : › Evaluation Study of link quality in 802.15.4 Zigbee Protocol. › Deployment and Evaluation of Performance of Educational Volunteers in Government Schools. Courses Assisted : › Operating Systems (UG) › Data Structures (UG) › Object Oriented Programming (UG)
October 2015 March 2014	**VoIP and Systems Consultant, Net2Soft Technologies, Pakistan** › Deployment and maintenance of Linux based VoIP (Asterisk) projects.
August 2011 September 2011	**Engineering Intern, PTCL, Lahore, Pakistan** › Assistance of Senior Engineer in enhancement of existing ISP Network. › Monitoring and troubleshooting of different problems in configurations of network devices.

💼 PROFESSIONAL TRAINING AND COURSES

September, 2017	**Neural Network and Deep Learning	Deep Learning Specialization, DEEPLEARNING.AI, Coursera** › Logistic Regression with a Neural Network › Shallow Neural Networks `Python` `Tensorflow`
September 2017	**Data Science Toolkit	Data Science Specialization, John Hopkins University, Coursera** › Setting Tools for Data Science Projects. › Hands-on experience on RStudio. `RStudio` `Microsoft Excel`
January 2013	**Cisco Certified Network Associate (Routing and Switching), Cisco Systems, USA** › Basics of ISP Design. › Deployment of Routing and Switching Protocols . `Cisco Packet Tracer` `GNS3` `PuTTY`
January 2013	**Cisco Certified Network Associate (Voice), Cisco Systems, USA** › Basics of VoIP Network Design. › Deployment of Virtual Call Manager. `Cisco Call Manager` `PuTTY`

⌨ Publications

A Deep Dive into COVID-19 Related Messages on WhatsApp in Pakistan   October 2021
R. Tallal Javed, Muhammad Usama, **Waleed Iqbal**, Junaid Qadir, Gareth Tyson, Ignacio Castro, and Kiran Garimella.

Accepted in Springer Social Networks and Mining (SNAM) Journal, 2021.

Characterising the IETF Through the Lens of RFC Deployment   August 2021
Stephen McQuistin, Mladen Karan, Prashant Khare, Colin Perkins, Gareth Tyson, Matthew Purver, Patrick Healey, **Waleed Iqbal**, Junaid Qadir, Ignacio Castro.

Accepted in ACM Internet Measurement Conference (IMC), 2021.

A First Look at COVID-19 Messages on WhatsApp in Pakistan   December 2020
R. Tallal Javed, Mirza Elaaf Shuja, Muhammad Usama, Junaid Qadir, **Waleed Iqbal**, Gareth Tyson, Ignacio Castro, and Kiran Garimella.

Accepted in IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2020.

Leveraging Data Science To Combat COVID-19 : A Comprehensive Review   August 2020
Siddique Latif, Muhammad Usman, Sanaullah Manzoor, **Waleed Iqbal**, Junaid Qadir, Gareth Tyson, Ignacio Castro, Adeel Razi, Maged N Kamel Boulos, Adrian Weller, Jon Crowcroft.

Accepted in IEEE Transaction on Artificial Intelligence, 2020.

Securing Machine Learning (ML) in the Cloud : A Systematic Review of Cloud ML Security   July 2020
Adnan Qayyum, Aneeqa Ijaz, Muhammad Usama, **Waleed Iqbal**, Junaid Qadir, Yehia Elkhatib, and Ala Al-Fuqaha

Acepted in Frontiers in Big Data Machine Learning and Artificial Intelligence, 2020.

Artificial Intelligence in Education : A Panoramic Review   October 2020
Kashif Ahmad, Junaid Qadir, Ala Al-Fuqaha, **Waleed Iqbal**, Ammar El-Hassan, Driss Benhaddou, Moussa Ayyash.

Submitted in International Journal of Artificial Intelligence in Education, 2020.

Five decades of the ACM special interest group on data communications (SIGCOMM) a bibliometric perspective October 2019
Waleed Iqbal, Junaid Qadir, Saeed-Ul Hassan, Rana Tallal Javed, Adnan Noor Mian, Jon Crowcroft, Gareth Tyson.

Accepted in ACM SIGCOMM Computer Communication Review, 2019.

A Bibliometric Analysis of Publications in Computer Networking Research   April 2019
Waleed Iqbal, Junaid Qadir, Gareth Tyson, Adnan Noor Mian, Saeed Ul Hassan, Jon Crowcroft

Accepted in Springer Scientometrics Journal, 2019.

Experimental study of link quality in IEEE 802.15. 4 using Z1 Motes.   May 2016
Adnan Noor Mian, Sheeraz A Alvi, Raees Khan, Muhammad Zulqarnain, **Waleed Iqbal**.

Accepted in IEEE International Wireless Communications and Mobile Computing Conference (IWCMC), 2016.

Bridging Educational Gaps through Volunteers ; Implementation, Problems and Their Solutions   April 2016
Tabish Manzoor, **Waleed Iqbal**, Eisha Tir Razia, Samia Razaq.

Accepted in International Conference on Information and Communication Technologies and Development (ACM ICTD), 2016.

☰ Skills

Programming	Python, MATLAB, C Language, R Language, and C++
Technical Tools	Jupyter Notebook, MATLAB, SPSS, RStudio, Git, Wireshark, and WordPress
DataBases	PostgreSQL
IDEs	IntelliJ Idea, Eclipse, Visual Studio Code, Sublime Text, and Atom
Middleware	Digium Asterisk, Cisco Call Manager
Operating Systems	Mac OS X, Windows, Linux RedHat, Linux CentOS, and Linux Ubuntu
Others	Adobe Photoshop CS5, Microsoft Visio, and Microsoft Office

📕 Important Coursework

> Topics in Artificial Intelligence
> Machine Learning
> Data Mining
> Internet of Things
> Advance Algorithm Analysis
> Technology for Development
> Network Security
> Computer Networks

🌐 Academic Services

Reviewer

> ACM SIGCOMM Computer Communication Review
> IEEE Access
> Springer Human-centric Computing and Information Sciences
> SAGE Open

❝❝ References

> References will be provided upon request

🏆 Achievements

> Queen Mary, University of London Principal Post-Graduate Research Scholarship Award for 2020–2023.
> Placeholder, Dean's Honors List, Information Technology Lahore, Pakistan. 2018
> Graduate Student Fellowship, Information Technology University Lahore, Pakistan. 2015. (This fellowship position is awarded to top 10 students of a batch at ITU.)
> Laptop Award under Chief Minister Laptop Scheme, University of the Punjab, Lahore, Pakistan. 2011.
> Merit Scholarship for Tuition Fee, Punjab Group of Colleges, Lahore, Pakistan. 2007.

Professional Affiliations

> Pakistan Engineering Council (Registered and Supervisory Engineer under C-5/C-6 Category
> Institute of Electrical and Electronics Engineers (IEEE) USA (Student Member)
> Association of Computing Machinery (ACM) USA (Student Member)