

# WALEED IQBAL

Computational Social Scientist | Electrical Engineer | Computer Scientist

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A proactive and enthusiastic engineer and computer scientist, having more than 06 year experience in IT industry and R&D sector, with excellent academic record through distinctions and competent practical knowledge of the subjects.

## EDUCATION

- |           |   |
|-----------|---|
| 2020–2023 | <b>Doctor of Philosophy (Ph.D.), Computer Science</b> <ul style="list-style-type: none"><li>&gt; <i>Queen Mary University of London, UK</i></li><li>&gt; <b>Thesis :</b> Information Diffusion in Community Specific Social Networks.</li></ul>   |
| 2015–2018 | <b>M.S. Computer Science</b> <ul style="list-style-type: none"><li>&gt; <i>Information Technology University, Lahore, Pakistan</i></li><li>&gt; <b>Thesis :</b> Analysis of Computer Networking Research : A Bibliometric Study.</li></ul>  |
| 2009–2013 | <b>B.Sc. Electrical Engineering</b> <ul style="list-style-type: none"><li>&gt; <i>University of The Punjab, Lahore, Pakistan</i></li><li>&gt; <b>Thesis :</b> Analysis of VoIP Structure and Standards : {Deployment of an Open Source VoIP Network for an Organization with Enhanced Services}</li></ul> |
| 2007–2009 | <b>F.Sc. Pre-Engineering</b> <ul style="list-style-type: none"><li>&gt; <i>BISE, Lahore, Pakistan</i></li></ul>   |
| 2005–2007 | <b>Matriculation (Biology Group)</b> <ul style="list-style-type: none"><li>&gt; <i>BISE, Lahore, Pakistan</i></li></ul>   |

## ACADEMIC AND PROFESSIONAL EXPERIENCE

- |                                 |   |
|---------------------------------|---|
| Present<br>January 2020         | <b>Ph.D Research Assistant, QMUL, UK</b> <ul style="list-style-type: none"><li>&gt; Moderation Mechanism of Large-scale Social Networks</li><li>&gt; Measurements Analysis of Internet Protocol Standards</li></ul>   |
| December 2019<br>September 2019 | <b>Teaching Assistant and Lab Instructor, ITU, LAHORE, Pakistan</b> <ul style="list-style-type: none"><li>&gt; Preparation of course and lab material for Computer and Communication Networks course for BS Electrical Engineering 2016 final year.</li><li>&gt; Conduct and evaluation of students in labs.</li><li>&gt; Evaluation of assignments and quizzes in course.</li><li>&gt; Conduct supplementary tutorials to support course contents.</li></ul> |
| August 2019<br>June 2018        | <b>Affiliated Researcher, IHSAN LAB, ITU, LAHORE, Pakistan</b> <ul style="list-style-type: none"><li>&gt; Publication titled "Five decades of the ACM special interest group on data communications (SIG-COMM) a bibliometric perspective" in SIGCOMM Computer Communication Review.</li><li>&gt; Publication titled "A Bibliometric Analysis of Publications in Computer Networking Research" in Springer Scientometrics Journal.</li></ul>                  |

March 2018 September 2017	<b>Teaching Assistant and Lab Instructor, ITU, LAHORE, Pakistan</b> <ul style="list-style-type: none"> <li>&gt; Preparation of course and lab material for Introduction to Programming course for BS management and Technology 2017 freshmen.</li> <li>&gt; Conduct and evaluation of students in labs.</li> <li>&gt; Evaluation of assignments and quizzes in course.</li> </ul>
June 2017 November 2015	<b>Graduate Fellow (Research Associate and Teaching Assistant), ITU, LAHORE, Pakistan</b> <ul style="list-style-type: none"> <li>&gt; Evaluation Study of link quality in 802.15.4 Zigbee Protocol.</li> <li>&gt; Deployment and Evaluation of Performance of Educational Volunteers in Government Schools.</li> </ul>
August 2011 September 2011	<b>Engineering Intern, PTCL, LAHORE, Pakistan</b> <ul style="list-style-type: none"> <li>&gt; Assistance of Senior Engineer in enhancement of existing ISP Network.</li> <li>&gt; Monitoring and troubleshooting of different problems in configurations of network devices.</li> </ul>
October 2015 March 2013	<b>VoIP and Systems Consultant, NET2SOFT TECHNOLOGIES, Pakistan</b> <ul style="list-style-type: none"> <li>&gt; Deployment and maintenance of Linux based VoIP (Asterisk) projects.</li> </ul>

## PUBLICATIONS

**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.

**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

Submitted in Frontiers in Big Data Machine Learning and Artificial Intelligence.

**ARTIFICIAL INTELLIGENCE IN EDUCATION : A PANORAMIC REVIEW** APRIL 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.

**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.

**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.

**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).

**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).

## PROFESSIONAL TRAINING AND COURSES

September, 2017	<b>Neural Network and Deep Learning   Deep Learning Specialization, DEEPLARNING.AI, Coursera</b> <ul style="list-style-type: none"><li>› Logistic Regression with a Neural Network</li><li>› Shallow Neural Networks</li></ul> <div>Python TensorFlow</div>
September 2017	<b>Data Science Toolkit   Data Science Specialization, JOHN HOPKINS UNIVERSITY, Coursera</b> <ul style="list-style-type: none"><li>› Setting Tools for Data Science Projects.</li><li>› Hands-on experience on RStudio.</li></ul> <div>RStudio Microsoft Excel</div>
January 2013 June 2018	<b>Cisco Certified Network Associate (Routing and Switching), CISCO SYSTEMS, USA</b> <ul style="list-style-type: none"><li>› Basics of ISP Design.</li><li>› Deployment of Routing and Switching Protocols .</li></ul> <div>Cisco Packet Tracer GNS3 PuTTY</div>
January 2013 September 2017	<b>Cisco Certified Network Associate (Voice), CISCO SYSTEMS, USA</b> <ul style="list-style-type: none"><li>› Basics of VoIP Network Design.</li><li>› Deployment of Virtual Call Manager.</li></ul> <div>Cisco Call Manager PuTTY</div>

## SKILLS

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

## 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.

## LANGUAGES

Urdu	● ● ● ● ●
English	● ● ● ● ○
Punjabi	● ● ● ● ○

## 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)

## RÉFÉRENCES

- › References will be provided upon request