



Usman Ali

● EDUCATION AND TRAINING

01/11/2020 – CURRENT – Rome, Italy

PH.D IN INFORMATION AND COMMUNICATIONS TECHNOLOGIES – Sapienza Università di Roma

Research Topics: Channel Modeling, Non-orthogonal Multiples access techniques, Massive MIMO system for 5G Networks

01/09/2016 – 13/06/2018 – Lahore, Pakistan

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING – COMSATS University Islamabad

Research Topics: OFDM, Non-orthogonal Multiples access techniques, Waveform Shaping techniques, and MIMO system for 5G Networks

CGPA: 3.66/4.00 |

Thesis: Discrete Wavelet Transform for Downlink Non-Orthogonal Multiple Access in 5G Networks

01/09/2011 – 18/09/2015 – Islamabad, Pakistan

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING – Federal Urdu University of Arts, Science and Technology

Research Topics: OFDM, PAPR reduction schemes in OFDM, waveform shaping techniques for 4G Networks

CGPA: 3.07/4.00 |

Thesis: Design and implementation of Orthogonal Frequency Division Multiplexing (OFDM) system.

● WORK EXPERIENCE

03/2019 – 05/2019 – Lahore, Pakistan

INTERNEE BSS ENGINEER – HI-TEL. TECHNOLOGIES

- Installation and commissioning of ZTE Product Family.
- 2G, 3G, and 4G installation and troubleshooting.
- Rectifier commissioning.
- External Alarm patching, troubleshooting, and verifying.
- Rectifying all the Technical Issues in the reports.

01/2016 – 05/2016 – Farooqabad, Pakistan

TEACHER – AL-FAJAR LYCIUM SCHOOL

- Taught courses at Metric Level.
- Course Taught: Physics, Mathematics, and Computer.

07/2014 – 08/2014 – Islamabad, Pakistan

INTERNEE ENGINEER – PAKISTAN TELECOMMUNICATION COMPANY LIMITED (PTCL)

- Networking Switching Subsystem Department
- Troubleshooting connectivity problems of the customers.
- Management of backbone telecommunication network.
- Worked at Department's sales management software to manage devices data.

CERTIFICATIONS

11/2018 – 12/2018

"Internet Connection: How to Get Online?" CISCO, Coursera Inc.

09/2019 – 10/2019

"AutoCad" DigiSkills Training Program by MOIT Pakistan

09/2019 – 10/2019

"Creative writing" DigiSkills Training Program by MOIT Pakistan

02/2021 – 03/2021

"MATLAB Onramp" by Mathworks

JOB-RELATED SKILLS

Technical Skills (Engineering Tools)

- Matlab
- C++
- Turbo C
- AutoCad
- Proteus and Keil

REVIEWING ACTIVITIES

Journal Reviewer

- IEEE Wireless Communication Letters
- IEEE Communication Letters

ORGANIZATION SKILLS

Organization Skills

- Able to exceed expectations and willing to work efficiently and effectively.
- Strong interpersonal communications, organizational, and presentation skills
- Capable of achieving immediate and long-term goals and meeting operational deadlines.
- Attentive to detail with a practical approach to problem
- Enjoys being part of a successful and productive team and thrives in highly pressurized and challenging working environments

LANGUAGE SKILLS

Mother tongue(s): URDU

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| ENGLISH | C1 | C2 | C1 | C1 | C1 |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

Journal Publications

1. **Usman Ali**, Sobia Baig, Tariq Umer and Zhiguo Ding " Performance Analysis of Discrete Wavelet Transform for Downlink Non-Orthogonal Multiple Access in 5G Networks" IET Communications, vol. 14, no. 10, pp. 1666-1674, June 2020. **I.F: 1.779**

Indexing: Science Citation Index (SCI), Science Citation Index Expanded (SCI-E), SCOPUS, IET Inspec

2. Sobia Baig, **Usman Ali**, Hafiz M. Asif, Asim Ali Khan, and S. Mumtaz, "Closed-Form BER Expression for Fourier and Wavelet transform-based Pulse-Shaped Data in Downlink NOMA," IEEE Communications Letters, vol. 23, no. 4, pp. 592-595, April 2019. **I.F: 3.53**

Indexing: Science Citation Index (SCI), JCR Q2, Science Citation Index Expanded (SCI-E), SCOPUS, IET Inspec

3. **Usman Ali**, Imran Ullah "Comparative study of PAPR reduction techniques in an OFDM System" ITEE International Journal. Vol.4, No.3, June 2015.

RECOMMENDATIONS

1. **Name:** Maria-Gabriella DI BENEDETTO

Position: Professor

Organization: Sapienza Università di Roma

Email: mariagabriella.dibenedetto@uniroma1.it

2. **Name:** Dr. Sobia Baig

Position: Associate Professor

Organization: COMSATS University Islamabad

Email: drsobia@cuilahore.edu.pk

3. **Name:** Dr. Hafiz Muhammad Asif

Position: Assistant Professor

Organization: Sultan Qaboos University

Email: hafiz.asif@gmail.com

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24 - 06 - 2021