

# MOHAMMAD GHOLIZADEH +989302843470

**Address:** 

#116, 51 St, Vesal Blv, Padad, Ahvaz, Iran

**Phone:** 

**Gmail: here** 

**Academic Email: here** 

LinkedIn: here GitHub: here

Webpage: <u>here</u>

## **Personal Information**

• Date of Birth: October 10, 1993

Place of Birth: Ahvaz, Iran

• Nationality: Iranian

• Gender: Male

Marital Status: Single

## **Education**

2020-2022: M.Sc. of Electrical Engineering(System communications), Department of Electrical

Engineering, Khajeh Nasir al-Din Toosi University of Technology, Tehran, Iran.

Analysis of cluster-based multi-hop millimeter wave networks (master's thesis, grade:

18.99/20)

**Supervisor:** Dr. Ali Habibi Bastami

2012-2016: B.Sc. of Electrical Engineering, Department of Electrical Engineering, Jundishapur

University of Technology, Dezful, Iran

## **Publication**

Gholizadeh M, Bastami AH, Cluster-Based Multi-Hop MMWave Networks: Relay Selection and Performance Analysis. Submitted for IEEE Transactions on Communications.

## **Honors and Awards**

- The best seminar titled "millimeter wave communication" in the 7th student seminar of Electrical and computer engineering updates in Khajeh Nasir al-Din Toosi University of Technology, Tehran, Iran (2022).
- Accepted through National University Entrance Exam to Iran University of Khajeh Nasir-o-din Toosi, College of Engineering for M.Sc. degree in Electrical Engineering (Telecommunications, System), and ranked 315 among approximately 167000 participants (2020).
- Accepted through National University Entrance Exam to University of Dezful, College of Engineering for B.Sc. degree in Electrical Engineering and ranked 2253 among approximately 420000 participants (2012).

## **Research Interests**

- Wireless Communications
- Millimeter Wave Networks
- Massive MIMO
- Multi-hop Communications
- Relay Selection Algorithms
- Machine Learning (Supervised Learning & Unsupervised Learning, Deep Learning & Reinforcement Learning)

# **Academic Experiences and researches**

- Analysis of cluster-based multi-hop millimeter wave networks (master's thesis).
- Study and analysis of millimeter wave communications (master's seminar).
- Investigating optimization applications in millimeter wave communications.
- Capacity analysis in relay channels.
- Using the constant modulus algorithm for semi-blind adaptive beamforming in smart antennas.
- Investigating the question of limited noise or limited interference for millimeter wave networks.
- Study of millimeter wave mobile communication for 5G cellular.
- Implementation of coding and decoding arithmetic program in python language. Click here
- Design and manufacture of a smart, wireless temperature control system for closed environments, utilizing the Atmega16 microcontroller, HMT&R transmitter and receiver modules, and LM35 temperature sensor (bachelor's thesis). Click here

# **Teaching Experiences**

Lecturer of the following courses at GAJ Andisheh Moalem Institute (2011-2020), Khuzestan, Iran

- Calculus I (2011)
- Calculus II (2012)
- Differential Equations (2014)
- Engineering Mathematics (2014)
- Electronic Circuits (2015)
- Communication I (2016-2017)
- Signals and systems (2019-2020)
- Engineering Probability and Statistics (2019-2020)

## **Licenses & Certifications**

- Machine Learning Specialization, Online Course, Coursera, Stanford University, <u>Click here</u>
- Unsupervised Learning, Recommenders, Reinforcement Learning, Online Course, Coursera, Stanford University, <u>Click here</u>
- Advanced Learning Algorithms, Online Course, Coursera, Stanford University, Click here
- Supervised Machine Learning: Regression and Classification, Online Course, Coursera, Stanford University, <u>Click here</u>
- Machine Learning with Python, Online Course, Coursera, IBM, <u>Click here</u>

- MATLAB Programming for Engineers and Scientists Specialization, Online Course, Coursera, Vanderbilt University, Click here
- Introduction to Programming with MATLAB, Online Course, Coursera, Vanderbilt University, <u>Click</u>
  here
- Mastering Programming with MATLAB, Online Course, Coursera, Vanderbilt University, Click here
- Introduction to Data, Signal, and Image Analysis with MATLAB, Online Course, Coursera, Vanderbilt University, <u>Click here</u>
- Programming for Everybody (Getting Started with Python), Online Course, Coursera, University of Michigan, <u>Click here</u>
- Python Data Structures, Online Course, Coursera, University of Michigan, Click here
- Using Python to Access Web Data, Online Course, Coursera, University of Michigan, Click here
- Learning MATLAB, Online Course, LinkedIn
- MATLAB Programming Fundamental, IEEE KNTU Student Branch

# **Computer and Programming Skills**

• **Programming:** MATLAB (advanced), Python (advanced), C++ (intermediate)

Technical Applications:
 Visual Studio Code (advanced), Visio (intermediate), Pycharm (advanced),

LT Spice (advanced), Proteus Design Suite (advanced), Code Vision AVR

(advanced)

Data Analysis: Microsoft office (Word (advanced), Excel (advanced), Power Point

(advanced), etc.), Latex (advanced)

Hardware Skills: Oscilloscope (advanced), Multi Meter (advanced)

# Languages

- Persian (native)
- English (fluently)
- Arabic (familiar)

## **Recreational Activities**

#### Art:

- Playing guitar (Basic)
- Playing piano (Basic)

#### Sports:

- Football (advanced)
- Volleyball (intermediate)
- Ping-Pong (intermediate)

#### **Activity:**

- Reading English novels and magazines
- Watching Documentaries

## References

#### Dr. Ali Habibi Bastami

**Associate Professor** 

Faculty of Electrical Engineering

K. N. Toosi University of Technology, Seyed-Khandan Bridge, Shariati Ave, Tehran, Iran.

**Tell**: +98(21) 84062405

Email: bastami@kntu.ac.ir

#### Dr. Mehrdad Ardebilipour

Associate Professor

Faculty of Electrical Engineering

K. N. Toosi University of Technology, Seyed-Khandan Bridge, Shariati Ave, Tehran, Iran.

Tell: +98 (21) -84062327

Email: mehrdad@eetd.kntu.ac.ir

#### Dr. Mahmoud Ahmadian Attari

**Professor** 

Faculty of Electrical Engineering

K. N. Toosi University of Technology, Seyed-Khandan Bridge, Shariati Ave, Tehran, Iran.

Tell: +98 (21) -84062423

Email: mahmoud@eetd.kntu.ac.ir