MOHAMMAD GHOLIZADEH

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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

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

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, Click here
- Unsupervised Learning, Recommenders, Reinforcement Learning, Online Course, Coursera, Stanford University, Click here
- Advanced Learning Algorithms, Online Course, Coursera, Stanford University, Click here
- Supervised Machine Learning: Regression and Classification, Online Course, Coursera, Stanford University, Click here
- Machine Learning with Python, Online Course, Coursera, IBM, Click here
- MATLAB Programming for Engineers and Scientists Specialization, Online Course, Coursera, Vanderbilt University, Click here

- Introduction to Programming with MATLAB, Online Course, Coursera, Vanderbilt University, Click 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, Click here

- Programming for Everybody (Getting Started with Python), Online Course, Coursera, University of Michigan, Click here
- 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.

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Dr. Mahmoud Ahmadian Attari

Professor

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