

## EDUCATION

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**Master of Science in Electrical Engineering** **Winter 2021**  
Sharif University of Technology ([ranked as 1<sup>st</sup> university in Iran based on QS Ranking](#))  
Thesis Title: “*Designing EEG-based Deep Neural Network for Analysis of Functional and Effective Brain Connectivity*”  
**GPA: 3.83/4**

**Bachelor of Science in Electrical Engineering** **Summer 2017**  
Sharif University of Technology  
Thesis Title: “*Two-phase Cooperative Jamming and Beamforming for Physical Layer Secrecy*”

## RESEARCH INTERESTS

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- EEG Signal Processing
- Data Science
- Machine Learning
- Deep Neural Network
- Graph Neural Network

## RESEARCH EXPERIENCE

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**Graduate Research Assistant** **2018-Present**  
Neuroscience Lab  
Department of Electrical Engineering, Sharif University of Technology  
Research Topic: “*Emotion Classification using Functional and Effective Brain Connectivity of EEG signals*”,  
“*A Machine Learning Algorithm for EEG classification using Image*”

**Undergraduate Intern** **Summer 2017**  
Telecommunication Lab  
Telecommunication Company, Tehran  
Research Topic: “*Telecommunication Network function and evaluation*”

**Undergraduate Research Assistant** **2015-2017**  
Communication Lab  
Department of Electrical Engineering, Sharif University of Technology  
Research Topic: “*Physical layer secrecy using beamforming and jamming techniques*”

## HONORS, AWARDS, AND LEADERSHIP EXPERIENCES

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- Ranked Top 0.01% among approximately 300,000 participants in the National Entrance Examination for Iranian Universities **Summer 2012**
- Ranked Top 0.1% among approximately 17,000 participants in the National Entrance Examination for M.Sc. degree **Summer 2018**
- Member of National Elites Foundation **2012-Present**
- Deans honorary award for voluntarily work in Student Union by head of Sharif’s EE department (Dr. Vakilian) **Fall 2014**
- Member of Resana Group for voluntarily work in Sharif’s EE department **2013-2015**
- Honorary award for voluntarily work in “Technologies of Power Electronics” Seminar by the head of Sharif’s Power Electronics EE department (Dr. Tahami) **Winter 2014**

## Academic Projects

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- **Ongoing Project, Master thesis** **Fall 2020**  
“*Designing EEG-based Deep Neural Network for Analysis of Functional and Effective Brain Connectivity*”  
Advisor: Hoda Mohammadzade, Assistant Professor, Arash Amini, Associate Professor
- Machine Learning Algorithm for EEG classification with visual stimuli **Fall 2018**  
Advisor: Hoda Mohammadzade, Assistant Professor
- Machine Learning Algorithm for classification of SEED & DEAP datasets **2018-2020**  
Advisor: Hoda Mohammadzade, Assistant Professor
- Physical Layer Secrecy in Communication channels **2015-2016**  
Advisor: Hamid Behroozi, Associate Professor

## SELECTED COURSES

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- Foundation of Machine learning (18.6/20)
- Statistical Learning (17/20)
- EEG Processing (16.6/20)
- Medical Imaging (19.3/20)
- Causal Inference (16.7/20)
- Communication Seminar (19.2/20)

## TEACHING EXPERIENCE

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- Teaching Assistant** **Fall 2019**  
Homework Designer and Teaching Assistant, "Statistical Learning"  
Instructor: Hoda Mohammadzade, Ph.D.
- Teaching Assistant** **Fall 2020**  
Homework Designer and Teaching Assistant, "Machine Learning"  
Instructor: Saber Saleh Kaleybar, Ph.D.

## TECHNICAL SKILLS

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- Engineering Software**  
MATLAB and Simulink, Microsoft Project.  
Familiar with: Microcontrollers, Proteus, Mathematica, PSpice, Quartus, HSPICE, Altium Designer, Minitab.
- Programming Language:**  
Python, R, C/C++, Latex, Verilog HDL

## LANGUAGE SKILLS

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- **Persian:** Native
- **French:** Intermediate
- **English:** Fluent  
TOEFL IBT Score: 112  
GRE General Test: 329
  - Quantitative Reasoning: 170
  - Verbal Reasoning: 159