

# Mohamad H. Alizade

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## EDUCATION

### Sharif University of Technology

*Bachelor of Science, Electrical Engineering — GPA (Last Two Years): 17/20*

*Thesis: Segmentation of OCTA Images*

Sep. 2017 – Aug. 2022

Tehran, Iran

## SELECTED COURSES

Tensor Decompositions (Graduate)	Dr. Hajipour	19.5/20.0 (A)
Medical Imaging Systems (Graduate)	Dr. Vosoughi Vahdat	18.4/20.0 (A)
AI & Biomedical Computations	Dr. Hajipour	18.1/20.0 (A)
Medical Signal & Image Processing Lab	Dr. Hajipour	20.0/20.0 (A)
Machine Learning	Dr. Golestani	16.4/20.0 (A)
Digital Control	Dr. Haeri	18.0/20.0 (A)
Industrial Control	Dr. Nobakhti	18.8/20.0 (A)
Modern Control	Dr. Sadati	17.7/20.0 (A)
Probability & Statistics	Dr. Aminzadeh Gohari	20.0/20.0 (A)
Numerical Analysis	Dr. Bayat	19.0/20.0 (A)
Foundation of Programming	Dr. Zakrifard	20.0/20.0 (A)
B.Sc Thesis II	Dr. Khalaj	19.0/20.0 (A)
B.Sc Thesis I	Dr. Fottovat	18.0/20.0 (A)
Communication Systems	Dr. Behnia	17.0/20.0 (A)
Calculus II	Dr. Moghaddasi	18.7/20.0 (A)
Calculus I	Dr. Moghaddasi	17.3/20.0 (A)

- **Other Courses** — Foundation of Image Processing, Stochastic Processes (Graduate), Convex Optimization

## PUBLICATIONS

### Kernel-based Joint Multiple Graph Learning and Clustering of Graph Signals

*Mohamad H. Alizade, Aref Einizade*

*Arxiv Preprint, Submitted to IEEE Signal Processing Letters — Paper*

2023

## RESEARCH EXPERIENCE

### Simultaneous Dimensionality Reduction and Graph Learning

*Supervisor: Dr. Aref Einizade*

2023 – Present

Sharif University

### Low-Rank Tensor Decomposition for Neural Network Pruning

*Supervisor: Dr. Sepideh Hajipour*

2021 – 2022

Sharif University

### Processing of Brain Signals for Biomarkers of Alzheimer's Disease

*Supervisor: Dr. Manouchehr S. Vafaei*

2022 – 2023

Southern University of Denmark

### Active Contours on Segmentation of Retinal Images

*Supervisor: Dr. Vosoughi Vahdat*

2021 – 2022

Sharif University

## TEACHING EXPERIENCE

### Teaching Assistant, AI & Biomedical Computations

- *Tasks included designing theoretical and MATLAB homeworks and grading them*

Sharif Uni., EE Dep.

*Instructor: Dr. Hajipour*

## HONORS & AWARDS

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- **Fully Funded Research Scholarship from Southern University of Denmark (SDU)**  
A research grant from the clinical institute of SDU to research on machine learning in healthcare for three months
- **National Physics Olympiad Gold Medalist** — Ranked 1st in 120,000
- **Awarded The Distinguished Thesis** — Top 15% of 2022 academic year, Sharif University
- **Honorary Admission to Electrical Eng. Program at Sharif University of Tech.**  
Due to my academic achievements, I was exempt from taking the college entrance exam (Konkour)

## SKILLS

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- **Programming Languages:** Python, MATLAB, SQL, C
- **Libraries:** PyTorch, Scikit-learn, Networkx, Numpy, Matplotlib, Seaborn, SQLite
- **Softwares:**  $\text{\LaTeX}$ , Git, Linux, Vim

## LANGUAGE PROFICIENCY

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- **Farsi(Persian):** Native
- **English:** Proficient — TOEFL iBT: (104) R29/L30/W24/S21, December 7, 2022