

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, and Jhony H. Giraldo

arXiv preprint arXiv:2310.19005 — [pdf]

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

- **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

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

LANGUAGE PROFICIENCY

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