

Reza Rajabli

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Research Interests

- >_ Artificial Intelligence
- >_ Machine Learning
- >_ Neuroscience
- >_ Cognitive Science

Education

Sharif University of Technology

M.SC. IN COMPUTER ENGINEERING - ARTIFICIAL INTELLIGENCE

Tehran, Iran

2014 - 2017

- **GPA:** 19.49 / 20 [4 / 4, Ranked 1st]
- **Thesis Title:** “Classification of EEG signals to detect predefined words in imagined speech”, **Advisor:** Dr. Hamid Beigy
- **Courses:** Neural Networks & Fuzzy Systems (20 / 20), Complex Dynamical Networks (20 / 20), Computer Vision (20 / 20), Speech Processing (20 / 20), Philosophy of Science (20 / 20), Neuroscience (19.5 / 20), Machine Learning Theory (18.7 / 20), Digital Signal Processing (18.7 / 20), Machine Learning (17.5 / 20)

Amirkabir University of Technology

B.SC. IN ELECTRICAL & ELECTRONIC ENGINEERING

Tehran, Iran

2009 - 2014

- **GPA of Last 2 years:** 18.17 / 20 [3.68 / 4]
- **Thesis Title:** “Automatic Circuit Design using Artificial Intelligence Algorithms in G”, **Advisor:** Dr. Amir Hossein Rezaie
- **Relevant Courses:** Artificial Intelligence (20 / 20), Algorithm Design (20 / 20), Data Structures (20 / 20), Advanced Systems Programming (20 / 20), Linear Control Systems (18.7 / 20), Computer Architecture & Microprocessors (18.1 / 20), Computational Intelligence (18 / 20)

Allameh Helli High School (NODET)

DIPLOMA IN PHYSICS AND MATHEMATICS

Tehran, Iran

2005 - 2009

- **GPA:** 19.47 / 20 [4 / 4]

Honors & Awards

- | | | |
|----------|--|------------------------|
| 2017 | Distinguished Graduate Award of Iran’s National Elites Foundation (INEF). | Domestic |
| 2017 | Statistics & Actuarial Science Chair’s Award as an incoming student with first class academic standing. | University of Waterloo |
| 2017 | Graduate Scholarship of University of Waterloo for international doctoral students. | University of Waterloo |
| 2016 | Ranked 7th in nationwide university entrance exam for Ph.D. program in Cognitive Science. | Domestic |
| 2016 | Ranked 1st among all graduate students of Computer Engineering department in M.Sc. program. | Sharif U. of Tech. |
| 2015 | Ranked 21st out of more than 2,500 teams in IEEEExtreme 9.0 [Ranked 2nd in Iran]. | International |
| 2014 | Ranked 23rd out of more than 1,800 teams in IEEEExtreme 8.0 [Ranked 1st in Iran]. | International |
| 2014 | Ranked 1st in Islamic Azad University entrance exam for M.Sc. program. | Domestic |
| 2014 | Ranked 8th in nationwide M.Sc. entrance exam among more than 30,000 participants | Domestic |
| 2014 | Semifinalist in Computer Olympiad for University Students as a participant of Amirkabir U. of Tech. . | Domestic |
| 2013 | Merit-Based Admission Offer for M.Sc. program in Artificial Intelligence at Amirkabir U. of Tech. . | Amirkabir U. of Tech. |
| 2013 | 3rd Place in 4th AUTCUP Artificial Intelligence competition at Amirkabir U. of Tech. . | International |
| 2011 | Ranked 23rd in 11th ACM ICPC Regional Contest | Tehran Site |
| 2009 | Ranked Top 0.1% in the nationwide university entrance exam for B.Sc. program with more than 300,000 participants. | Domestic |
| 2006, 07 | Semifinalist in 24th Mathematics National Olympiad & 17th Computer National Olympiad | Domestic |

Publications

- >_ **R. Rajabli**, S. Noei, H. Beigy, and R. Lashgari. "Detecting Predefined Words in Imagined Speech Using EEG Signals" [Submitted].
- >_ S. Noei, P. Ashtari, **R. Rajabli**, M. Jahed. "Classification of Motor Imagery in Electroencephalogram Signal Based on Spatio-Temporal Feature selection using Elastic Net and Gradient Boosting" [Submitted].
- >_ **R. Rajabli**, S. Noei, H. Beigy, and R. Lashgari. "Is it Possible to Detect Persian Numbers ('1' & '2') in Imagined Speech without using Visual Stimulus?" In *2018 International Conference Brain Engineering & Computational Neuroscience Conference (BECNC)*.
- >_ M. Falahi, B. Beigzadeh, Z. Bank, and **R. Rajabli**. "Design and implementation of a cognitive-ergonomic navigation interface on an optimized holonomic mechanism." In *2014 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, pp. 1-6. IEEE, 2014.

Selected Projects (of last 5 years)

- Ongoing **Examining an Original Method for Denoising the fMRI Data**
A personal quest to be more familiar with preprocessing of neurobiological data, under supervision of Prof. Alex Fornito.
- Ongoing **Examining the Roles of PFC (Prefrontal Cortex) in the Inductive Reasoning**
Part of My Research in Institute for Research in Fundamental Sciences (IPM), under Supervision of Dr. Shima Seyed-Allaei.
- 2017 **Designing a Recommender System for the Customers of a Supermarket Chain**
A practical data mining project to help the board of directors to have an insight for presenting various packages to loyal customers.
- 2016 **Writing a Walk-through for Beginners in Computational Theory of Mind**
Final Project of Philosophy of Science course, Supervised by Dr. Mostafa Taghavi.
- 2015 **Mergelt**
Mergelt is a mobile game which is designed by me. It was released for Android nationally and internationally. Also there is a Windows Phone version.
- 2015 **Evaluation of Tehran Highway Network Efficiency**
The price of anarchy for every edges in the highway network was calculated and reported to find non-efficient edges. Final Project of Complex Dynamical Network course, Supervised by Dr. Mahdi Jalili.
- 2015 **Spoken Term Detection using Kaldi**
Final Project of Speech Recognition course, Supervised by Dr. Hossein Sameti.
- 2014 **Implementation of a Maze Solver using Reinforcement Learning**
Final Project of Machine Learning course, Supervised by Dr. Hamid Beigy.
- 2014 **Training of a Fully Complex-valued Neural Network for Real-valued Classification**
Final Project of Neural Networks & Fuzzy Systems course, Supervised by Dr. Mahdi Jalili.
- 2014 **Detection of PQRST Points in Electrocardiogram using Wavelet**
Final Project of Digital Signal Processing course, Supervised by Dr. Hossein Sameti.
- 2014 **Automobile Battery Chargers Controller**
Developed in C# for the biggest manufacturer of batteries in Iran.

Teaching Experience

- | | | |
|---------|---|----------------------------------|
| 2018 | A Talk on How to Design Web Pages using Neuromarketing Techniques - Speaker | <i>15th IMTEC</i> |
| 2014-16 | Operating Systems Lab - Head Teaching Assistance, Instructor: Dr. Hamid Beigy | <i>Sharif U of Tech</i> |
| 2016 | Speech Recognition - Teaching Assistance, Instructor: Dr. Hossein Sameti | <i>Sharif U of Tech</i> |
| 2015 | Machine Learning - Teaching Assistance, Instructor: Dr. Hamid Beigy | <i>Sharif U of Tech</i> |
| 2015 | Speech Processing - Teaching Assistance, Instructor: Dr. Hossein Sameti | <i>Sharif U of Tech</i> |
| 2015 | A Workshop on How to Develop a Game - Lecturer | <i>Allameh Helli High School</i> |
| 2013 | Artificial Intelligence - Teaching Assistance, Instructor: Dr. Mohammad Mehdi Ebadzadeh | <i>Amirkabir U of Tech</i> |
| 2013 | Advanced Electronics Measurement - Head Teaching Assistance, Instructor: Dr. Amir Hossein Rezaie | <i>Amirkabir U of Tech</i> |
| 2012 | A Workshop on Introduction to Electrical & Computer Engineering - Workshop Conductor | <i>Farzanegan High School</i> |
| 2012 | Artificial Intelligence - Teacher | <i>Allameh Helli High School</i> |
| 2009-11 | Programming - Teacher | <i>Allameh Helli High School</i> |
| 2010 | Introduction to C++ Programming - Head Teaching Assistance, Instructor: Dr. Hassan Taheri | <i>Amirkabir U of Tech</i> |

Work Experience

Cafe Bazaar - divar.ir

ASSOCIATE PRODUCT MANAGER, assisting the PM to define and advance the product goals.

Tehran, Iran
Apr. 2019 - Now

Gorikhtan Escape Rooms

COFOUNDER & CODESIGNER, designed and implemented the whole idea.

Mashhad, Iran
Jan. 2018 - Now

Cafe Bazaar - divar.ir

USER RESEARCHER, provided necessary insights for the company to have a better understanding of its users' behaviour.

Tehran, Iran
Aug. 2018 - Apr. 2018

Brain Engineering Research Center - IPM

RESEARCHER, did research about Brain-Computer Interfaces.

Tehran, Iran
Dec. 2015 - Jan. 2018

Cognitive Sciences and Technologies Council

RESEARCHER, introduced cognitive experiments to people to make them more familiar with cognitive distortions.

Tehran, Iran
Sep. 2016 - Mar. 2017

Arsheh Jaam-e-Jam

R&D DIRECTOR, developed the firmware of the 1st Iranian-made Digital Piano and responsible for any hardware modifications to deliver final product features.

Tehran, Iran
May. 2014 - Sep. 2016

AIMS Lab - Amirkabir University of Technology

INTERN, developed the software of the first Iranian-made PMU (Phase Measurement Unit).

Tehran, Iran
Jun. 2013 - Sep. 2013

Bazinama

VIDEO GAME EDITOR & REVIEWER, a member of game developing team and reviewed video games for Bazinama magazine.

Tehran, Iran
Sep. 2009 - Sep. 2012

2nd Iranian Conference on Smart Grids (ICSG)

HEAD OF INDUSTRIAL AFFAIRS, tried to find potential sponsors and signed contracts with them.

Tehran, Iran
Jun. 2011 - Jun. 2012

Electrical Engineering Student Association - Amirkabir University of Technology

HEAD OF IT, managed all IT related works in the Scientific Student Association of Electrical Engineering department.

Tehran, Iran
Jan. 2011 - Jan. 2012

Skills

Languages

[of People]

Persian [Native]

English [Fluent], **TOEFL: 103** [R: 29, L: 26, S: 23, W: 25], **GRE: [Q: 170, V: 150, AW: 3.0]**

Languages

[of Computers]

★★★★☆ C, C++, MATLAB, SQL

★★★★☆ Python, C#, Objective-C, HTML5, Assembly

★★★☆☆ R, JS, CSS3

Specialized Softwares / Libraries

★★★★☆ Visual Studio Code, MathWorks MATLAB, Tobii Pro Lab

★★★★☆ PySpark, EEGLAB, HSPICE

★★★★☆ SPM, LabVIEW, Keras

Hobbies

- >_ Turning everything into code
- >_ Reading & Writing Persian Poems
- >_ Puzzle Solving (of any kind!)
- >_ Mountain Climbing
- >_ Playing Tennis