

# Masoumeh Siar

COMPUTER ENGINEER

Tehran, Iran

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## Education

### M.Sc. in Computer Science-Artificial Intelligence.

Tehran, Iran

ISLAMIC AZAD UNIVERSITY SCIENCE AND RESEARCH BRANCH.

sep 2015 - sep 2017

- Thesis: Analysis Brain Magnetic Resonance Images for Tumor Detection and Classification Using Feature Extraction Methods and Convolutional Neural Network.
- Courses GPA: 17.23, Total GPA:17.38 out of 20

### B.Sc. in Computer Science-Software Engineering.

Babolsar, Iran

PARSA INSTITUTE OF HIGHER EDUCATION.

October 2010 - September 2012

- Thesis: Investigating cutting and mutation operators in the routing of relief agents.
- Total GPA:17.53 out of 20. GPA: 20 out of 20 in Relevant Courses (Rank 1/Total)
- Graduated with honors, Graduated with honors in Bachelor of Science from Parsa Institute Of Higher Education

### Specializing in mathematics and physics.

Qaemshahr, Iran

SHAHED-HIGH SCHOOL.

October 2002 - September 2008

## Work Experience

### IRAN'S NATIONAL ELITES FOUNDATION

Iran's National Elites Foundation

September 2022-Now

- Working as part of "Reviewing and extracting EEG signal biomarkers in Obsessive-Compulsive Disorder (OCD)" project, Shahid Ahmadi-roshan grant from Iran's National Elites Foundation. Convergent Technologies Research Center (<http://utnbic.ir/>) (<http://utnbic.ir/>).

Iran's National Elites Foundation

### IRAN'S NATIONAL ELITES FOUNDATION

September 2020-2021

- Recieved Shahid Ahmadi-roshan grant from Iran's National Elites Foundation for working as part of "Machine learning application in medical since (diagnose depressed patients)" project (<http://utnbic.ir/>).

Iran's National Elites Foundation

### IRAN'S NATIONAL ELITES FOUNDATION

September 2021

- Recieved Shahid Babaie grant from Iran's National Elites Foundation for working as part of Anomaly Detection category project (<https://rahnesan.ir/>).

### INTELLIGENT SYSTEMS LABORATORY (ISLAB)

ISLab

September 2016 - September 2017

- Intelligent Systems Laboratory (ISLab), supervisor: Prof. Mohammad Teshnehlab.  
Research Topic: Deep learning for Medical Images, K. N.Toosi University of Technology, Tehran, Iran.

### MEMBER OF THE YOUNG RESEARCHERS CLUB

Young Researchers Club

September 2015 - Now

- Member of the Young Researchers Club, Islamic Azad University. Tehran, Iran.

### AMIRKABIR ROBOTICS AND ARTIFICIAL INTELLIGENCE COMPETITIONS

AAIC 2015

September 2015

- 3th Amirkabir Robotics and Artificial Intelligence competitions

### INTERNSHIP IN TELECOMMUNICATION COMPANY

Telecommunication Company

September 2011

- Internship in a telecommunication company for 1 year Of, Mazandaran, Iran.

## LANGUAGE SKILLS

**Persian:** Native language.

**English:** Fluent.

**Arabic:** Basic A+.

## Technical Skills

**Programming Languages:**

**Web Technologies:**

**Databases:**

**Software libraries and distributions:**

**Cloud:**

**Graphic:**

**Other:**

Python, Matlab, Java, C/C++, SQL, Pascal & Basic

HTML5

MySQL

TensorFlow, Pytorch, Sklearn, Matplot, Pandas, Numpy, PyQt

Google Colab, Microsoft Azure

Photoshop, Reallusion iClone, Adobe Premiere

Latex, Weka, HTML, MySQL, Netbeans, Jupyter Notebook, PyCharm, Git

## Research Interests

- Artificial Intelligence/Machine Learning/Deep Learning and Neural Network
- Computer Vision/ Video Understanding/Action Analysis
- Image and Video Processing → Medical Image Processing
- EEG Signal Processing
- Natural language processing & Speech Processing

## Certificates and Online Courses

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- Online Course from Coursera.org Convolutional Neural Networks

## Honors & Awards

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2021	<b>First prize and first place in Anomaly Detection category</b> , Iran's National Elites Foundation(Rahneshan)	<i>Team Competitions</i>
2012	<b>GRADUATED WITH HONORS</b> , Graduated with honors in Bachelor of Science from Parsa Institute Of Higher Education.	<i>Babolsar, Iran</i>
2012	<b>MEMBER OF THE UNIVERSITY ASSOCIATION</b> , Member of the Academic Society of Computer Engineering at Parsa University.	<i>Babolsar, Iran</i>

## Publications

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- Masoumeh Siar, Mohammad Teshnehlal, A combination of feature extraction methods and deep learning for brain tumour classification. IET Image Processing. 2022 Oct 5.
- Masoumeh Siar, Mohammad Teshnehlal, Age Detection from Brain MRI Images Using the Deep Learning. In2019 9th International Conference on Computer and Knowledge Engineering (ICCKE) 2019 Oct 24 (pp. 369- 374). IEEE.
- Masoumeh Siar, Mohammad Teshnehlal, Brain Tumor Detection Using Deep Neural Network and Machine Learning Algorithm. In2019 9th International Conference on Computer and Knowledge Engineering (ICCKE) 2019 Oct 24 (pp. 363-368). IEEE.
- Halimeh Siar, Mohmmad Teshnehlal, Diagnosing and Classification Tumors and MS Simultaneous of Magnetic Resonance Images Using Convolution Neural Network . 2019 7th Iranian Joint Congress on Fuzzy and Intelligent Systems (CFIS), Bojnord, Iran, IEEE.
- Masoumeh Siar, Mohammad Teshnehlal, Age and Gender Classification from Brain MRI Images Using the Convolutional Neural Network, Iranian conference on Biomedical Engineering (ICBME 2019).
- Halimeh Siar, Mohmmad Teshnehlal, Analysis Brain MRI Images for Tumor Detection Using Convolutional Neural Network. 49th Annual Iranian Mathematics conference, Iran University of Science and Technology, Tehran, Iran.
- Halimeh Siar, Fatemeh Siar: "Evaluating the Effecty of Deep Learning in Speech Classification". 49th Annual Iranian Mathematics conference, Iran University of Science and Technology, Tehran, Iran.