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## Education

## **Master of Science in Computer Science**

September 2020 - December 2022

SHAHID BEHESHTI UNIVERSITY

Tehran, Iran

- Field of Study: Data Mining.
- Thesis: "Developing Meta-Learning Classification Model" under the supervision of Dr. Saeed Reza Kheradpisheh and Prof. Mohammad Ganitabesh.
- Overall GPA: 4.0 out of 4.0.

### **Bachelor of Science in Computer Science**

September 2016 - August 2020

SHAHID BEHESHTI UNIVERSITY

Tehran, Iran

- Bachelor's Project: 'Reconstructing images from fMIR data using Generative Adversarial Networks.' Dr. Saeed Reza Kheradpisheh
- Overall GPA: 3.86 out of 4.0

## Research Interests

- Computer Vision
- Deep Learning
- Meta-Learning
- Reinforcement Learning
- Optimization for Large-scale Problems

# **Publications**

### **CONFERENCE PAPERS**

A. Javaheri, A. Gholamzadeh Khoee, S. R. Kheradpisheh, H. Farahani, M. Ganjtabesh; "AVID: A VARIATIONAL

2022 INFERENCE DELIBERATION FOR META-LEARNING", 2022 12th International Conference on Computer and Knowledge Engineering (ICCKE). IEEE.

Accepted

#### JOURNAL PAPERS

A. Gholamzadeh Khoee, **A. Javaheri**, M. Ganjtabesh, and S. R. Kheradpisheh; "*Meta-Learning in Spiking Neural Networks with Reward-Modulated STDP*"

Submitted

# Research Experiences \_\_\_\_\_

# Research Assistant

February 2021 - February 2023

- COMPUTATIONAL NEUROSCIENCE RESEARCH LAB
- · Aiming to improve the model-agnostic meta-learning (MAML) for few-shot learning.
- · Developing Bayesian meta-learning to mitigate task uncertainty and heterogeneity by clustering input tasks in low-data regimes
- Designing and implementing a novel bio-plausible meta-learning model using spiking neural networks.
- Studying visual attention mechanisms.
- · Studying the novel meta-learning models.

#### **Research Assistant**

December 2019 - December 2020

SHAHID BEHESHTI UNIVERSITY

- Under supervision of Prof. Dr Saeed Reza Kheradpisheh.
- Studying GAN models
- · Studying on reconstruction the scene with FMIR signals

# Teaching Experiences \_\_\_\_\_

## **TEACHING ASSISTANT**

Fall 2022	Artificial Neural Networks, TA of Dr. Saeed Reza Kheradpisheh	Shahid Beheshti
Fall 2021	Computational Neuroscience, TA of Dr. Saeed Reza Kheradpisheh	Shahid Beheshti
Spring 2020	Neural Network, TA of Dr. Golnaz Taheri	Shahid Beheshti
Fall 2019	Advanced Programming, TA of Dr. Saeed Reza Kheradpisheh	Shahid Beheshti

#### **WORKSHOPS**

2022	Al for Healthcare Autumn School, Principal Instructor	Tehran University of
		Medical Sciences
2022	Mathematics for Machine Learning, Principal Instructor	Loop
2021	Reinforcement Learning, Principal Instructor	Loop
2021	Computer Vision, Principal Instructor	Loop

# **Professional Experiences**

### **Senior Software Engineer**

September 2022 - present

Tehran Province, Iran

ZARINPAL

- Refactoring and fixing bugs in the legacy codebase.
- Reviewing codes and managing the **Git** repository to prevent conflicts.
- · Working with GraphQl and Rest API.

### Co-Founder and Technical Team Lead(AI Specialist)

February 2020 - September 2022

OOP ACADEMY

Tehran Province, Iran

- With the mission to equip companies and individuals with cutting-edge AI, Loop Academy has been hosting national and international level events and has assisted various companies in finding suitable individuals for their key projects.
- Participated in **Samsung AUT Tech Center** 10th acceleration cycle and was admitted.
- Launching **Talent Mine** service to match talented job seekers to exceptional companies.
- The best startup award of the 22nd specialized exhibition of research and technology achievements in Iran.
- Create a **cheating detection** system based on artificial intelligence for online exams.
- Implement a software system for face detection, eye tracking and face anti-spoofing with.
- Leading a team of 8 software developers.

## Honors \_\_\_

**The best startup award** of the 22nd specialized exhibition of research and technology achievements.

Tehran International Exhibition Center.

2020 Received national graduate full-scholarship.

2015 Received national undergraduate full-scholarship.

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## Selected Courses \_\_\_\_\_

•	Advanced Algorithms (4-credit): GPA of 4.0 out of 4.0.	M.SC.
•	Machine Learning (4-credit): GPA of 4.0 out of 4.0.	M.Sc.
•	Data mining (4-credit): GPA of 4.0 out of 4.0.	M.Sc.
•	Artificial Neural Networks (4-credit): GPA of 4.0 out of 4.0.	M.Sc.
•	Advanced Programming (3-credit): GPA of 4.0 out of 4.0.	B.Sc.
•	Funds. of matrix and linear algebra (3-credit): GPA of 4.0 out of 4.0.	B.Sc.
•	<b>Theory of Computation (3-credit):</b> GPA of 4.0 out of 4.0.	B.Sc.
•	Artificial Intelligence (3-credit): GPA of 4.0 out of 4.0.	B.Sc.

## Skills

- **Programming:** Python, Javascript, Typescript, SQL
- Python Libraries/Frameworks PyTorch, TensorFlow, Keras, Scikit-Learn, Numpy, Pandas, Matplotlib
- Web Libraries/Frameworks Node.js, Express.js, Mongoose, React, Redux
- Database PostgreSQL, MongoDB, Neo4j, Redis
- Tools Git, LATEX, Docker, Kubernetes