

RESEARCH INTERESTS

- Theoretical and Applied Machine Learning
- Computer Vision
- Medical Imaging
- Black-box Optimization
- Bioinformatics

EDUCATION

University of California Riverside M.Sc. in Computer Science, GPA to date: 3.95/4 – Advisors: Samet Oymak, Amr Magdy	Riverside, USA 2019–Current
Sharif University of Technology B.Sc. in Computer Science, GPA: 17.35/20	Tehran, Iran 2014–2019

RESEARCH EXPERIENCE

Generalizing Geographically Weighted Regression Model With Prof. Oymak and Prof. Magdy – Improving the speed and accuracy of a spatially-varying coefficient model	Ongoing
Detecting and Recognizing Persian texts in Images With Prof. Mostafa Kamali – An end-to-end trainable scene text detector with our own synthetic text generator engine without any human labelled data	Summer 2018–Winter 2019

PROJECTS

See full list of projects on www.mohammad-reza.com/projects

- Covid-19 (Python, PyTorch, Keras - 2020)
Detecting Covid-19 Cases From Chest Xray Images
- Pedestrian Detention (Python, PyTorch - 2020)
Detecting and tracking pedestrians in videos
- Shelem Application (Unity, React, Node.js - 2019)
Online Multiplayer Card Game
- Graphical Chess (Java - 2016)
Graphical Chess application with impressive AI
- Texture synthesizing, Active Contour,... (MATLAB)
- YOLO implementation (Python, PyTorch - 2020)
Implementing YOLO from scratch
- Implementing famous image processing and computer vision methods

SCHOLARSHIPS AND AWARDS

• Silver Medal in the Iranian National Olympiad in Informatics	2013
• UCR's Graduate Fellowship Award	2019–2020
• ranked 4th in Iran's national university entrance exam (Konkour) for masters degree.	2019
• Scholarship from Iran's National Elites Foundation	2014–2015
• Ranked 6th in the ACM-IPC Contest, Shiraz, Iran	2014

TEACHING

- **Algorithm and Programming Teacher** at Rahyar Educational Complex 2015-2017
Teaching C++ programming, Algorithms, and Problem Solving Strategies to high school students preparing for Olympiad in Informatics
- **Teaching Assistant** at University of California Riverside Fall 2020
Introduction to Programming
- **Teaching Assistant** at Sharif University of Technology
 - Basic Programming*, Dr. Zarei Winter 2019
 - Data structures*, Dr. Foroughmand Fall 2018
 - Automata and Language Theory*, Dr. Khazaei Fall 2018
 - Design and Analysis of Algorithms*, Dr. Zarei Spring 2018
 - Data structures*, Dr. Khazaei Fall 2017
 - Design and Analysis of Algorithms*, Dr. Khazaei Spring 2017
 - Advanced Programming*, Dr. Boomari Spring 2016

WORKING EXPERIENCE

- Iran's National Elite Foundation** Tehran, Iran
Exam Designer Fall 2016
- designing question for the first round of the 25th Iranian National Olympiad in Informatics
- Summer internship at Rahnema Corporation** Tehran, Iran
Front-End and Back-End Developer Summer 2017
- developing a location based social media app for android
- Ronash Corporation** Tehran, Iran
Front-End Developer Fall 2017
- Developed the front-end of a website about mobile applications statistics