Kasra Darvish

Maryland, USA

Education

Ph.D., Computer Science

University of Maryland, Baltimore County

2018-Present

Advisor: Professor Cynthia Matuszek
 Research: Socially Assistive Robotics

• GPA: 3.85/4.0

B.Sc., Computer Science Tehran, Iran
Shahid Beheshti University 2013-2018

• GPA: 3.78/4.0 • Last 2 years GPA: 3.92/4.0

Technical Skills

• Programming and Tools:

• Python, Java, C++, C

PyTorch, OpenCV

• LATEX, Ibe

MATLAB, Prolog

o HTML, CSS, JavaScript

Vim, Emacs, Docker

• Operating Systems: Mac OS X, GNU/Linux

Honors and Awards

• Morgan Stanley scholarship recipient for doing research focused on Data Science University of Maryland, Baltimore County	Maryland, USA 2018-2019
• Ranked as top 1% among computer science students Shahid Beheshti University	Tehran, Iran 2018
• Selected as one of the top 5 students Nationwide Computer Science Olympiad	Iran 2017
• Exempted from M.Sc. university entrance exam as an exceptional-talent student	Iran 2017
• Ranked as top 1% among more than 250,000 students National Universities Entrance Exam	Iran 2013

Notable Projects

- A Convolutional Neural Network (CNN) for gender and race detection based on face images in Python
- Pedestrian Detection using Support Vector Machine and Histogram of Oriented Gradients in MATLAB
- An adversarial **2D game** in **C++** with **minimax** algorithm for the agent
- A talk on Principal Component Analysis (PCA) and Eigenface at Shahid Beheshti University
- Ball Mania, a 2D game developed in C++ using its graphic library

- The Chromatic Art Gallery Problem for specific type of polygons
- **Genetic algorithm** to solve a modified version of the **maze problem** in which we have to put different shapes of pipes in each cell to convey the water from source to destination
- Prolog program to solve Einstein's riddle

Research Experience

• Research Assistant, Robotics and Machine Learning	Prof. Cynthia Matuszek
University of Maryland, Baltimore County	Feb. 2019 - Present

Prof. Hadi Farahani

Nov. 2017 - May 2018

• Research Assistant, Deep Learning
Shahid Beheshti University

• Research Assistant - Computational Geometry Laboratory

Shahid Beheshti University

Prof. Farnaz Sheikhi
Feb. 2017 - May 2018

• Disease detection by processing iris image
Shahid Beheshti Univeristy
Prof. Alireza Tavakoli
May 2017 - July 2017

Teaching Exprience

• Teaching Assistant, Algorithms	Prof. Paul Burkhardt
University of Maryland, Baltimore County	Jan. 2019 - May 2019

• Teaching Assistant, Algorithms

University of Maryland, Baltimore County

Prof. Christopher Marron
Sept. 2018 - Dec. 2018

• Teaching Assistant, Computational Geometry
Shahid Beheshti University
Prof. Farnaz Sheikhi
Sept. 2017 - Jan. 2018

• Teaching Assistant, Compiler Theory
Shahid Beheshti University
Prof. Adel Hosseini
Sept. 2017 - Jan. 2018

• Teaching Assistant, Automata Theory
Shahid Beheshti University
Prof. Hadi Farahani
Feb. 2016 - July 2016

• Teacher, Mathematics

Mahde Danesh High School

Tehran, Iran
2013 - 2016

Memberships and Services

IOI Office Member
 The 29th International Olympiad in Informatics
 Executive Director of "Pardazeh"
 Tehran, Iran
 Tehran, Iran

The Scientific Journal of Computer Science Association, SBU

Sept. 2014 - Nov. 2015

Research Interests

Artificial Intelligence, Robotics
 Computer Vision, NLP
 Algorithms, Computational Geometry
 Deep Learning, Machine Learning

Languages

Persian (Farsi): NativeEnglish: Fluent

 \circ **Spanish**: Beginner \circ **Arabic**: Intermediate

Other Skills

• Piano: Intermediate • Soccer: Professional player