Kasra Darvish

Maryland, USA

Education

Ph.D., Computer Science Maryland, USA

University of Maryland, Baltimore County

2018-Present • Advisor: Professor Cynthia Matuszek • Research: Cross-Modal Learning

• GPA: 3.83/4.0

B.Sc., Computer Science Tehran, Iran 2013-2018

Shahid Beheshti University

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

Technical Skills

• Programming and Tools: Python, C++, Java, C o MATLAB, Prolog

 PyTorch, OpenCV o HTML, CSS, JavaScript

 LATEX, Ipe Vim, Docker

• Operating Systems: Mac OS X, GNU/Linux

Honors and Awards

 Morgan Stanley scholarship recipient as a Data Science researcher University of Maryland, Baltimore County 	Maryland, USA <i>2018-2019</i>
• 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 • Research Assistant, Deep Learning Shahid Beheshti University Nov. 2017 - May 2018 • Research Assistant - Computational Geometry Laboratory Prof. Farnaz Sheikhi Shahid Beheshti University Feb. 2017 - May 2018 • Disease detection by processing iris image Prof. Alireza Tavakoli Shahid Beheshti Univeristy May 2017 - July 2017 **Teaching Exprience** • Teaching Assistant, Algorithms Prof. Paul Burkhardt University of Maryland, Baltimore County Jan. 2019 - May 2019 • Teaching Assistant, Algorithms Prof. Christopher Marron University of Maryland, Baltimore County Sept. 2018 - Dec. 2018 • Teaching Assistant, Computational Geometry **Prof. Farnaz Sheikhi** Shahid Beheshti University Sept. 2017 - Jan. 2018 Prof. Adel Hosseini • Teaching Assistant, Compiler Theory Shahid Beheshti University Sept. 2017 - Jan. 2018 • Teaching Assistant, Automata Theory Prof. Hadi Farahani Shahid Beheshti University Feb. 2016 - July 2016 • Teacher, Mathematics Tehran, Iran Mahde Danesh High School 2013 - 2016 **Memberships and Services** • IOI Office Member Tehran, Iran The 29th International Olympiad in Informatics Aug. 2017 • Executive Director of "Pardazeh" Tehran, Iran The Scientific Journal of Computer Science Association, SBU Sept. 2014 - Nov. 2015 Research Interests Artificial Intelligence, Robotics Algorithms, Computational Geometry Computer Vision, NLP Deep Learning, Machine Learning Languages Persian (Farsi): Native o English: Fluent o Arabic: Intermediate Spanish: Beginner

Other Skills

 Piano: Intermediate Soccer: Professional player