

FATEME HASHEMI CHALESHTORI

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INTERESTS

- Machine Learning
- Robotics
- Natural Language Processing

EDUCATION

Colorado State University (CSU), Fort Collins, Colorado Aug. 2019 - Dec. 2021 (expected)
Master of Computer Science - Advisor: Prof. Indrakshi Ray
Thesis: COVID-19 Misinformation Detection in Twitter Through Authentic News Citation Detection.
Cumulative GPA: **3.91/4**

Amirkabir University of Technology (AUT), Tehran, Iran Sep. 2014 - Jun. 2019
B.Sc., Computer Engineering, Computer Architecture Systems - Advisor: Prof. Maryam Amir Haeri
Thesis: Parallelizing Anomaly Detection in Smart Home Activities.
Cumulative GPA: **16.66/20**

PUBLICATIONS AND MANUSCRIPTS

- Chaleshtori, F. H., Ray, I. & Ray, I. (Aug 2021). "Automation of Vulnerability Information Extraction using Transformer-Based Models of Natural Language Processing". International Conference on Information Systems Security (ICISS). (*Under Review*)
- Zou, C., Shirazi, H., Chaleshtori, F. H., Banerjee R. & Ray, I. (Aug. 2021). "Seeing Should Probably not be Believing: The Role of Deceptive Support in COVID-19 Misinformation on Twitter". Journal of Data and Information Quality. (*Under Review*)
- Rahimi, M., Shirazi, M., NajafGholian, A., Chaleshtori, F. H., Moradi, N., Behzad, K., Roodabeh, S. H., Gavahi, A., Moghadam, F. F., GhaziAsgar, A., AlizadehGharib, Y., Memarian, M., Tavakoli, H. & Khosravi, M. A. "Parsian 2018 Extended Team Description Paper for RoboCup". International RoboCup Symposium.
- Rahimi, M., Shirazi, M., Arfaee, M., NajafGholian, A., Zamani, A., Hosseini, H., Chaleshtori, F. H., Moradi, N., Ahsani, A., Jafari, M., Zahedi, A., Abdollahi, P. & Khosravi, M. A. "Parsian 2017 Extended Team Description Paper for RoboCup". International RoboCup Symposium.

RESEARCH EXPERIENCES

Rays Cyber Research Lab, Graduate Research Assistant, CSU 2020 - 2021
Supervised by Prof. Indrakshi Ray and Indrajit Ray

Working on the intersection of Machine Learning algorithms and Cybersecurity. Utilizing state-of-the-art NLP models to process text and analyze them from security perspectives, e.g., vulnerability information extraction, misinformation detection in social media such as Twitter, pretraining a domain-specific natural language representation model to better understand the expressions of individuals in social networks, etc.

Algorithmic Biology Lab, Graduate Research Assistant, CSU 2019 - 2020
Supervised by Dr. Hamidreza Chitsaz

Studied the prediction of the structures created by RNA-RNA Interactions (RRI) and how to improve the accuracy and speed of the algorithm.

Parsian Robotics Laboratory, Software Team Member, AUT 2016 - 2018
Supervised by Dr. Mohammad Azam Khosravi

Parsian Robotics Research Lab is working on Small Size Soccer League, aiming to design and build SSL robots,

compatible with international RoboCup competition rules as an engineering project. SSL is one of the oldest RoboCup Soccer leagues. It focuses on the problem of intelligent multi-agent cooperation and control in a highly dynamic environment with a hybrid centralized/distributed system. In this lab, knowledge of mechanics, electronics, and artificial intelligence are combined, targeting the ideal cooperation between the SSL robots to perform a soccer game.

TEACHING AND MENTORING EXPERIENCES

- Mentored two high school students and two undergraduate students, CSU 2021
- Graduate Teaching Assistant for System Security course, CSU Fall 2021
- Graduate Teaching Assistant for Introduction to Programming with Python course, CSU Spring 2020
- Graduate Teaching Assistant for Parallel Programming course, CSU Fall 2019
- Head Teaching Assistant for Principles of Programming course, AUT Fall 2015, Fall 2016
- Teaching Assistant for Data Structure and Algorithms course, AUT Fall 2016

SERVICES TO THE COMMUNITY

- The Web Conference 2021, Reviewer
- Australasian Conference on Information Security and Privacy 2021, Reviewer
- Women in CyberSecurity chapter at Colorado State University, President
- Lecturer in C Programming Workshop, 9th AUT Linux and Open Source Software Festival, 2017

TECHNICAL SKILLS

Programming:

Python, C/C++, Java, CUDA, OpenMP, MPI, VHDL, Verilog, Bash, Assembly

Frameworks & Scientific Tools:

Git, Robotic Operating Systems (ROS), Qt, Octave, MATLAB, Arduino IDE

Typesetting Tools:

L^AT_EX, Microsoft office (Word, Powerpoint, Excel), Vim, Prezi

HONORS AND AWARDS

- Fully-funded Research Assistantship** 2020
Colorado State University, Fort Collins, CO, USA
- Ranked 4th with Parsian Robotics Group in RoboCup Competitions** 2017
Small Size Soccer League, Nagoya, Japan
- Gained 3rd Place with Parsian Robotics Group in IranOpen Robotics Competitions** 2017
Small Size Soccer League, Tehran, Iran
- Elected as the Most Responsible and Consistent Student** 2018
Bachelor Graduation Ceremony
- Ranked top 0.8%, Nationwide University Entrance Exam** 2014
Among Approximately 222,500 Participants in Mathematics and Physics Field

EXTRACURRICULAR ACTIVITIES

- Treasurer of Iranian Student Organization, CSU 2021
- Executive Director of Our Bachelor Graduation Ceremony 2018
- Executive Member of Amirkabir Robotics & A.I. Technology Festival (AUTCUP) 2016
- Elected as a Member of Students' Union, Dept. of Computer Engineering, AUT 2015

REFERENCES

Available upon request.