MOHAMMAD MOHAMMADI

LinkedIn
m.mohammadi1378@outlook.com

EDUCATION

University of Toronto *01/2024-present*
1st Year, PhD Degree
Department of Computer Science

Sharif University of Technology *09/2018-07/2023*
BS Degree Overall GPA: 19.56/20
Department of Computer Engineering Rank: 6 out of 136

Allame Helli 1 High School *09/2014-09/2018*
Diploma of Theoretical Mathematics and Physics

RESEARCH INTERESTS

Computer Vision, Event-Based Vision, Reinforcement Learning, Deep Learning, Graph Theory, Algorithms, Combinatorics

PUBLICATIONS

Published

- **Mohammad Mohammadi**, Jonathan Nöther, Debmalya Mandal, Adish Singla, Goran Radanovic, *"Implicit Poisoning Attacks in Two-Agent Reinforcement Learning: Adversarial Policies for Training-Time Attacks"*, International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**) 2023
- Onur Beker, **Mohammad Mohammadi**, Amir Zamir, *"PALMER: Perception - Action Loop with Memory for Long-Horizon Planning"*, Conference on Neural Information Processing Systems (**NeurIPS**) 2022

RESEARCH EXPERIENCE

University of Toronto *09/2024-present*
PhD Student / Research Assistant

- Project : Representation Learning in Event-Based Vision.
  - Supervisor : Prof. Igor Gilitschenski

Ecole Polytechnique Fédérale de Lausanne (EPFL) *03/2022-06/2023*
Internship

- Projects : PALMER/PALMER++: A graph-based long-horizon planning method in MDPs.
  - Supervisor : Prof. Amir Zamir, Onur Beker

Max Planck Institute *07/2021-08/2021*
Internship

- Project : Studying poisoning attacks in multi-agent MDPs.
  - Supervisor : Dr. Goran Radanovic

Sharif University of Technology *10/2021-Present*
Research Assistant

- Project : Adversarial robustness of classifiers against Corner-Search attack.
  - Supervisor : Prof. Mohammad Hossein Rohban

Chinese University of Hong Kong *07/2020-09/2020*
Summer Internship

- First Project : Tackling straggling workers while using distributed systems to compute the multiplication of two matrices.
  - Supervisor : Prof. Pascal Vontobel
- Second Project : Finding and counting the perfect matchings of a given graph in parallel(in NC).
  - Supervisor : Dr. Gautam Prakriya

WORK EXPERIENCE

Allame Helli 1 High School *07/2018-06/2020*
Informatics Olympiad Teacher

- Teaching algorithms and programming to 10th grade students
- Preparing 10th grade students for the Iranian National Olympiad in Informatics

TEACHING ASSISTANT EXPERIENCE

Neural Networks and Deep Learning	Fall2023
Advanced Programming	Fall 2019 & Spring 2020
Data Structures and Algorithms	Spring 2020 & Spring 2021
Linear Algebra	Fall 2020
Artificial Intelligence	Fall 2020 & Fall 2021
Engineering Probabilities and Statistics	Spring 2021
Design of Algorithms	Fall 2021
Discrete Structures	Spring 2020

RELEVANT COURSES

- **University Major Courses**
  Artificial Intelligence, Machine Learning, Game Theory, Design of Algorithms, Engineering Probabilities and Statistics, Modern Information Retrieval, Theory of Languages and Automata
- **Online Courses**
  Reinforcement Learning - Deep Mind x UCL - By David Silver
  Deep Reinforcement Learning - CS 285 - Berkeley - By Sergy Levine
  Machine Learning - CS229 - Stanford University - By Andrew NG
  Deep Learning - CS230 - Stanford University - By Andrew NG
  Convolutional Neural Networks for Visual Recognition - CS 231n - Stanford University - By Fei-Fei Li
  Convex Optimization - EE364a - Stanford University - By Stephan Boyd
  Deep Neural Networks - EECS182 - Berkeley - By Anant Sahai
  Computer Vision - University of Tuebingen - By Andreas Geiger

HONORS AND AWARDS

- Silver Medal at 26th INOI, Iran, 08/2016

  - 20th of Iranian National Olympiad in Informatics in 2016
- Silver Medal at 27th INOI, Iran, 08/2017
  - 9th of Iranian National Olympiad in Informatics in 2017
- National Countrywide University Entrance Exam(aka Konkour), Iran, 2018
  - Rank 76 in among approx. 170,000 pariticpants
- Silver Medal at West Asia Regional ACM-ICPC Contest, 12/2020
  - 7th of West Asia Regional ACM-ICPC Contest

LANGUAGES

- English: Proficient (TOEFL 115/120; R30, L30, S26, W29)
- Persian: Native
- German: Limited Working Proficient (A2)

SKILLS

- **Programming Languages**
  Python, C++, C, Java, Verilog, 8086 assembly, MIPS assembly, ARM, SQL
- **Technologies**
  Git, Bash, LaTeX
- **Tools**
  Pytorch Lightning, Pytorch, Gym, Habitat, Tensorflow

HOBBIES

Piano, Sightseeing, Novels, Movies, Tennis