

(407) 810-4467
Orlando, FL
yazdani@ucf.edu

Mehdi Yazdani-Jahromi

AI Ph.D. Researcher

GitHub: yazdanimehdi
Website: yazdanimehdi.com

4th year AI Ph.D. Researcher at the University of Central Florida and a dedicated Graduate Research Assistant. My research primarily revolves around the dynamic fields of computer vision, drug discovery, and graph neural networks. My work has been recognized in prominent conferences such as AAAI and Neurips, where I have contributed my insights and findings to the broader AI community. I am particularly interested in leveraging AI to transform healthcare, with a focus on drug target interactions and the advancement of computer vision technologies. My goal is to continue contributing innovative solutions and insights in AI, driven by the potential to revolutionize healthcare and technology through intelligent systems. I have also worked as a commercial fullstack developer before starting my PhDs for four years during of which I have used Javascript and Flutter for front-end, and Python for back-end.

RESEARCH INTERESTS

Transformers, Graph Neural Networks, Computational Drug Discovery, Computer Vision, Algorithmic Fairness

SKILLS

Programming Languages	Python • C++ • C# • Bash • Dart(Flutter) • MATLAB • JavaScript • SQL • Solidity
Tools	Docker • Git • \LaTeX • HTML • CSS • LINGO • GAMS • AWS
Python Packages	Pytorch • Numpy • Pandas • Keras • TensorFlow • Scikit-learn • Scipy • Networkx • iGraph • DGL • Matplotlib • Seaborn • Django • Flask
JavaScript Frameworks	Vue.js, Electron, NativeScript
Quantitative Research	Deep Learning • Machine Learning • Data Mining • NLP • Computer Vision • Large Language Models • Cloud Computing • Optimization • Mathematical Modeling

EDUCATION

Ph.D. in Computer Science <i>University of Central Florida</i> • GPA: 3.9	Jan 2021 – Present <i>Orlando, Florida</i>
M.S. in Computer Science <i>University of Central Florida</i> • GPA: 3.9	Jan 2021 – Aug 2023 <i>Orlando, Florida</i>
M.S. in Industrial Engineering <i>Sharif University of Technology</i> • GPA: 3.88	2017 – 2019 <i>Tehran, Iran</i>
B.S. in Industrial Engineering <i>Isfahan University of Technology</i> • GPA: 3.58	2013 – 2017 <i>Isfahan, Iran</i>

PUBLICATIONS

CoViT: Concentration and Attention Go Hand in Hand in Top Down Hierarchical Vision Transformer (In Progress)
DeepDrugDomain: Easy-to-use drug-target affinity/interaction prediction package for architecture design (Submitted to ISMB 2024) link: [GitHub](#)
FragXsiteDTI: Revealing Responsible Segments in Drug-Target Interaction with Transformer-Driven Interpretation (RECOMB 2024)
FragXsiteDTI: an interpretable transformer-based model for drug-target interaction prediction (Neurips 2023 Workshop on New Frontiers of AI for Drug Discovery and Development) link: [Neurips](#)
Controlling the misinformation diffusion in social media by the effect of different classes of agents (The Computational Social Science Society of the Americas Annual Conference)
Agent-Based Modeling of C. Difficile Spread in Hospitals: Assessing Contribution of High-Touch vs. Low-Touch Surfaces and Inoculations' Containment Impact (The Computational Social Science Society of the Americas Annual Conference)
Through a fair looking-glass: on mitigating bias in image datasets (AAAI 2023 Workshop on Representation Learning for Responsible Human-Centric AI) link: [Springer](#)
BindingSiteAugmented DTA to enable A Next-Generation Pipeline for Interpretable Prediction Models in Drug-Repurposing (Briefings in Bioinformatics) link: [BiB](#)
Distraction is All You Need for Fairness (Submitted to IEEE Transactions on Neural Networks and Learning Systems) link: [Arxiv](#)
AttentionSiteDTI: Attention Based Model for Predicting Drug-Target Interaction Using 3D Structure of Protein Binding Sites (Briefings in Bioinformatics) link: [BiB](#)
UnbiasedDTI: Mitigating Real-World Bias of Drug-Target Interaction Prediction by Using Deep Ensemble-Balanced Learning (MDPI Molecules) link: [MDPI Molecules](#)

(407) 810-4467
Orlando, FL
yazdani@ucf.edu

Mehdi Yazdani-Jahromi

AI Ph.D. Researcher

GitHub: yazdanimehdi
Website: yazdanimehdi.com

CERTIFICATIONS

Python Fundamentals	Tehran University
Advanced Python	Tehran University

HONORS AND AWARDS

featured in News4Jax 1 for AI drug discovery project.	2023
30000\$ Amazon Research Credit Award for CoViT project.	2023
Nominated for Order of Pegasus award (the most prestigious award a student can attain at the University of Central Florida)	2022
Invited to Golden Key International Honor Society	2021
Outstanding Graduate Fellowship, University of Central Florida	2021
Ranked 1st in Iranian national entrance exam for M.Sc. of industrial engineering among near 15000 participants	2017

PRESENTATIONS

Poster Presentation Neurips 2023 (New Orleans, USA)	December 15, 2023
The Materials Science & Technology (MS&T) technical meeting and exhibition(Columbus, USA)	October 3-4, 2023

RESEARCH EXPERIENCE

Graduate Research Assistant <i>Human Centered AI Research Lab</i>	Aug 2021 — Present <i>Orlando, Florida</i>
---	--

- Computational Drug Discovery
- Computer Vision
- Computational Social Science
- Algorithmic Fairness

Research Assistant <i>Sharif University of Technology</i>	Sep 2018 — Dec 2019 <i>Tehran, Iran</i>
---	---

- Graph Clustering
- Data Driven Decision making

TEACHING EXPERIENCE

Teaching Assistant (CAP 5610 - Machine Learning) <i>University of Central Florida</i>	Spring 2024 <i>Orlando, Florida</i>
---	---

- Data Handling (Pandas, Numpy)
- Classical Machine learning methods (Scikit-learn)
- Deep Learning (Pytorch)

Teaching Assistant (STA 6714 - Data Preparation) <i>University of Central Florida</i>	Fall 2023 <i>Orlando, Florida</i>
---	---

- Data cleaning and preparation using Python (Pandas, Numpy, Scipy)

Guest Lecturer (Project in Data Analytics) <i>University of Central Florida</i>	Fall 2022 <i>Orlando, Florida</i>
---	---

- Introduction to Computer Vision

Teaching Assistant (Data Mining Course) <i>Sharif University of Technology</i>	Spring 2018 <i>Tehran, Iran</i>
--	---

- Data mining methods using Python

(407) 810-4467
Orlando, FL
yazdani@ucf.edu

Mehdi Yazdani-Jahromi

AI Ph.D. Researcher

GitHub: yazdanimehdi
Website: yazdanimehdi.com

DEVELOPER WORK AND LEADERSHIP EXPERIENCE

Blockchain Developer

ZTech Team

- Developing Blockchain applications on Ethereum network using Solidity

Apr 2020 — Nov 2020

Tehran, Iran

Developer

COVID TEST

- An open source Project for COVID-19 data collection and screening

Mar 2020 — Mar 2020

Tehran, Iran

Founder and chief technology officer

BerimCafe

- Best software for cafe and restaurant managements with Django and flutter developed by me

Mar 2019 — Dec 2020

Tehran, Iran

Founder and chief technology officer

TAEPO

- TOEFL Online Practice and Exam Platform Written in Django, Vue js and Electron js, Developed by me

Mar 2019 — Dec 2020

Tehran, Iran

Founder and chief technology officer

MrZoro.ir

- MrZoro.ir, An automated solution for reserving meals in university Django based project created entirely by me as an individual

Jan 2018 — Nov 2019

Tehran, Iran

REFERENCES

- [Dr.Ozmen](#)
- [Dr.Garibay](#)