

Mohammad Amin Roshani

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EDUCATION

Wayne State University <i>Ph.D. in Computer Science</i>	2023 – Present
Wayne State University <i>M.S. in Computer Science</i>	2023 – 2025
The University of Memphis <i>Ph.D. studies in Computer Science (transferred to Wayne State)</i>	2022 – 2023 <i>GPA: 3.94</i>
The University of Tehran <i>B.Sc. in Computer Science</i>	2017 – 2022 <i>GPA: 3.1</i>
National Organization for Development of Exceptional Talents <i>Mathematics High School Diploma</i>	2013 – 2017 <i>GPA: 4.0</i>

INTERESTS

Health Informatics, Machine Learning, Natural Language Processing, Data Analysis

EXPERIENCE

Graduate Student Instructor <i>Wayne State University</i>	Jan 2026 – May 2026 <i>Instructor: Dongxiao Zhu</i>
• CSC 5991: Trustworthy AI for Large Language Models and Vision-Language Models • Led weekly labs on LLM/VLM foundations, supervised fine-tuning, prompting, CLIP/LLaVA, red-teaming, unlearning, grounded VLMs (LLaVA+SAM), and agentic AI safety • Mentored student teams designing, evaluating, and documenting trustworthy AI applications	
Graduate Teaching Assistant <i>Wayne State University</i>	Aug 2025 – May 2026
• Problem Solving and Programming – Hadi Nasser	
Graduate Teaching Assistant <i>Wayne State University</i>	Aug 2024 – May 2025
• Introduction to Web Technology – Kamel Rushaidat • Senior Capstone Project – Seyed Ziae Mousavi Mojab	
Graduate Research Assistant <i>Wayne State University</i>	May 2023 – Aug 2024 <i>Supervisor: Dongxiao Zhu</i>
• Working on NIH project about using LLMs to build a conversational app to predict COVID-19 severity risk • Conducting research on safety of LLMs and multimodal foundational models	
Graduate Teaching Assistant <i>The University of Memphis</i>	Aug 2022 – Apr 2023
• CS1: Introduction to Programming (Python) – William Baggett • Foundations of Computing – Thomas Watson	
Private Tutor <i>Self-Employed</i>	Feb 2020 – Aug 2022
• Teaching Introduction to Python to students in Iran and Australia	
Teaching Assistant <i>The University of Tehran</i>	Jan 2020 – Jan 2022
• Advanced Information Retrieval (NLP) – Hamidreza Keshavarz • Fundamentals of Computer Science and Programming – Deniz Tahmouresi • Machine Language and Assembly – Abbas Nowzari-Dalini • Principles of Computer Systems – Bagher BabaAli	

PUBLICATIONS

Automatic Calibration for Membership Inference Attack on Large Language Models <i>Published</i>	Jul 2025
Generative Large Language Model–Powered Conversational AI App for Personalized Risk Assessment: Case Study in COVID-19 <i>Published</i>	Feb 2025
Learning to poison large language models during instruction tuning <i>Under Review</i>	Feb 2024

LANGUAGES

English (Fluent; TOEFL 106, GRE V 152), Persian (Native), Arabic (Elementary)

PROJECTS

AI-powered web application for elderly health tracking (collaboration with nursing school)	Dec 2025
Adding LLMs to the risk assessment app to make a conversational agent	Mar 2024
Designing COVID-19 risk severity assessment for NIH project	Oct 2023
Hate speech detection using Transfer Learning	Oct 2022
Additional: Sarcasm detection, sentiment analysis, segmentation, Bi-LSTM hate speech, regression/statistics	2021–2022

TECHNICAL SKILLS

Programming Languages: Python (primary), C++, JavaScript, Go, R, SQL, Bash, HTML, CSS, $\text{\LaTeX}$
Machine Learning & AI: Deep Learning, LLMs, Transformers, RAG, LoRA, prompt engineering, multi-agent AI, XAI, clinical NLP
ML Frameworks & Libraries: PyTorch, Hugging Face, Scikit-learn, NumPy, Pandas, TensorFlow, OpenCV, Matplotlib, NLTK
NLP: BERT, GPT-style, LLaMA, tokenization, instruction fine-tuning, information extraction from clinical text
Web & Application Development: React, Node.js, JavaScript, REST APIs, web and mobile-connected apps
Data Science & Modeling: Statistical modeling, regression, classification, experimental design, AUC/F1/precision-recall
Tools & Infrastructure: Git, Linux/Ubuntu, VS Code, GPU pipelines, Hugging Face ecosystem, shell scripting
Research & Writing: $\text{\LaTeX}$, reproducible experiments, dataset construction, peer review

HONORS

Admitted to the second level of the National Student Olympiad (Mathematics and Literature)
Top 5 of the class for the last four semesters
First place in University Dart Competitions

REFERENCES

Available upon request.