

Parsa Hosseini

Contact: phoseini@umd.edu Links: Website LinkedIn Google Scholar

EDUCATION

- **University of Maryland** College Park, Maryland
PhD in Computer Science, GPA: 4.0/4.0 Aug 2024 - Present
 - **Sharif University of Technology** Tehran, Iran
Bachelor of Computer Engineering; GPA: 19.03/20 Sep 2019 - Feb 2024

RESEARCH INTERESTS

- Multimodal LLMs
 - LLM Post-Training
 - Agentic AI and Tool Use
 - Robustness

PUBLICATIONS

* denotes equal contribution.

- "GHOST: Hallucination-Inducing Image Generation for Multimodal LLMs"
• AY Parast*, P Hosseini*, H Asadollahzadeh, AS Moakhar, B Azam, S Feizi, N Akhtar ICLR 2026
 - "SpurLens: Automatic Detection of Spurious Cues in Multimodal LLMs"
• P Hosseini*, S Nawathe*, M Moayeri, S Balasubramanian, S Feizi preprint
 - "Structured Reasoning Elicits Robustness in LLMs against Reference Corruption"
• W Wang*, P Hosseini*, S Feizi preprint
 - "Your LLM Agents are Temporally Blind"
• Y Cheng*, AS Moakhar*, C Fan*, P Hosseini, K Faghah, Z Sodagar, W Wang, S Feizi preprint
 - "Gaming Tool Preferences in Agentic LLMs"
• K Faghah*, W Wang*, Y Cheng*, S Bharti, G Sriramanan, S Balasubramanian, P Hosseini, S Feizi EMNLP 2025
 - "Decompose-and-Compose: A Compositional Approach to Mitigating Spurious Correlation"
• FH Noohdani, P Hosseini*, AY Parast*, HY Araghi, MS Baghshah CVPR 2024

EXPERIENCE

- **Graduate Research Assistant, Reliable AI Lab, University of Maryland** College Park, Maryland
Aug 2024 - Present
Advisor: Prof. S Feizi
 - **Research Topics:** Multimodal LLMs, Tool Use in Agentic AI
 - **Intern, Okinawa Institute of Science and Technology** Okinawa, Japan
Jul 2023 - Oct 2023
Mentors: Dr. M Yamada, Dr. M Sabokrou
 - **Research Topics:** Trustworthy ML, Continual Learning
 - **Undergraduate Research Assistant, ML Lab, Sharif University of Technology** Tehran, Iran
Sep 2022 - Jan 2024
Advisor: Prof. MS Baghshah
 - **Research Topics:** Out-Of-Distribution Generalization, Spurious Correlation

HONORS, AWARDS, AND TALKS

- **Dean's Fellowship**, Department of Computer Science, University of Maryland Sep 2024, 2025
 - **Talk**: "Mitigating Spurious Correlation", Okinawa Institute of Science and Technology Sep 2023
 - **Gold medal in Iranian Mathematical Olympiad** Sep 2018
 - **Silver medal in Iranian Geometry Olympiad** Sep 2018

SERVICE

- **ICLR Workshop Co-organizer:** Workshop on Spurious Correlation and Shortcut Learning (ICLR 2025)
 - **Reviewer:** Major AI Conferences

SKILLS SUMMARY

- **Programming:** Python, C/C++, UNIX Shell, Java, SQL, LaTeX
 - **Machine Learning Frameworks:** PyTorch, TensorFlow, Hugging Face
 - **AI/ML Expertise:** Multimodal LLMs, Diffusion Models, CLIP, Robustness, Spurious Correlation
 - **Systems & Infrastructure:** MCP, GPU Clusters, SLURM, Virtual Machines, PostgreSQL, Git, Jupyter

LANGUAGES

- English: Fluent
 - Persian: Native
 - Japanese: Elementary Proficiency

TEACHING EXPERIENCE

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| Teaching Assistant | University of Maryland & Sharif University of Technology | 2021–2024 |
| <i>Teaching Assistant for major CS courses including Machine Learning, Artificial Intelligence, Convex Optimization, Compiler Design, Probability & Statistics, and Discrete Structures.</i> | | |
| Math Olympiad Instructor | Various High Schools | 2019–2024 |
| <i>Taught problem-solving and competition math to high school students; several achieved top national ranks.</i> | | |