

Parsa Hosseini

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

EDUCATION

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

RESEARCH INTERESTS

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|----------------------------|----------------------------------|
| • Multimodal LLMs | • Agentic AI and Tool Use |
| • LLM Post-Training | • 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 Faghieh, Z Sodagar, W Wang, S Feizi* *preprint*
- **"Gaming Tool Preferences in Agentic LLMs"**
K Faghieh, 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

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| • Graduate Research Assistant, Reliable AI Lab, University of Maryland
<i>Advisor: Prof. S Feizi</i> <ul style="list-style-type: none">◦ Research Topics: Multimodal LLMs, Tool Use in Agentic AI | College Park, Maryland
<i>Aug 2024 - Present</i> |
| • Intern, Okinawa Institute of Science and Technology
<i>Mentors: Dr. M Yamada, Dr. M Sabokrou</i> <ul style="list-style-type: none">◦ Research Topics: Trustworthy ML, Continual Learning | Okinawa, Japan
<i>Jul 2023 - Oct 2023</i> |
| • Undergraduate Research Assistant, ML Lab, Sharif University of Technology
<i>Advisor: Prof. MS Baghshah</i> <ul style="list-style-type: none">◦ Research Topics: Out-Of-Distribution Generalization, Spurious Correlation | Tehran, Iran
<i>Sep 2022 - Jan 2024</i> |

HONORS, AWARDS, AND TALKS

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| • 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

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| • English: Fluent | • Persian: Native | • Japanese: Elementary Proficiency |
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TEACHING EXPERIENCE

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