

Parsa Hosseini

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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

- Spurious Correlation
- Multi-modal LLMs
- Robust and Reliable LLMs
- Interpretability

RESEARCH EXPERIENCE

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

PUBLICATIONS

- **"Seeing What's Not There: Spurious Correlation in Multimodal LLMs"** *arXiv Preprint*
P Hosseini, S Nawathe*, M Moayeri, S Balasubramanian, S Feizi*
- **"Structured Reasoning Elicits Robustness in LLMs against Reference Corruption"** *arXiv Preprint*
W Wang, P Hosseini, S Feizi
- **"Decompose-and-Compose: A Compositional Approach to Mitigating Spurious Correlation"** *CVPR 2024*
FH Noohdani, P Hosseini, AY Parast*, HY Araghi, MS Baghshah*

HONORS, AWARDS, AND TALKS

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

VOLUNTEER EXPERIENCE

- **Co-organizing the Workshop on Spurious Correlation and Shortcut Learning** *ICLR 2025* Apr 2025
- **Staff at Sharif AI Challenge** *A programming competition for all who are interested in artificial intelligence* Apr 2021

LANGUAGES

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

TEACHING EXPERIENCE

- **Teaching Assistant**
Major Computer Science Courses at UMD and SUT
 - **Discrete Structures:** Dr. Teli (Fall 2024)
 - **Algorithmic Game Theory:** Dr. Fazli (Spring 2024)
 - **Convex Optimization:** Dr. Jafari (Spring 2023)
 - **Artificial Intelligence:** Dr. Rohban (Spring 2023), Dr. Baghshah (Fall 2022), Dr. Sani (Spring 2022)
 - **Machine Learning:** Dr. Motahari (Spring 2023), Dr. Sharifi-Zarchi (Fall 2022), Dr. Peyvandi (Spring 2022)
 - **Compiler Design:** Dr. Sani (Spring 2023, Fall 2023)
 - **Probability and Statistics:** Dr. Jafari (Spring 2022), Dr. Motahari (Fall 2021), Dr. Sharifi-Zarchi (Fall 2021), Dr. Najafi (Spring 2021)
 - **Data Structure:** Dr. Seddighin (Fall 2021)
- **Private Math Olympiad Teacher**
Various High Schools
 - **Farzanegan High School:** Jun 2021 - Jun 2022
 - **Soltani High School:** Oct 2020 - Dec 2021
 - **Salam Hemmat High School:** Jun 2019 - Sep 2019
 - **Allameh Helli High School:** Apr 2019 - Sep 2019

SKILLS SUMMARY

- **Languages:** Python, JAVA, C, C++, SQL, LaTeX, UNIX Shell Scripting
- **Frameworks:** PyTorch, TensorFlow, MCP, SLURM
- **Tools:** GIT, Jupyter, Hugging Face, Virtual Machine, PostgreSQL

HOBBIES AND INTERESTS

- Ping Pong!
- 1st Dan in Taekwondo (Martial Arts)