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**
- **Vision-Language Models**
- **Robust Machine Learning**
- **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"**
  P Hosseini*, S Nawathe*, M Moayeri, S Balasubramanian, S Feizi — *arXiv Preprint*
- **"Decompose-and-Compose: A Compositional Approach to Mitigating Spurious Correlation"**
  FH Noohdani, **P Hosseini***, AY Parast*, HY Araghi, MS Baghshah — *CVPR 2024*

HONORS, AWARDS, AND TALKS

- MLDS Seminar: "Mitigating Spurious Correlation", OIST, Sep 2023
- Gold medal in Iranian Mathematical Olympiad, Sep 2018
- Silver medal in Iranian Geometry Olympiad, Sep 2018

VOLUNTEER EXPERIENCE

- **Co-organizing the Workshop on Spurious Correlation and Shortcut Learning**
  ICLR 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, SLURM, Keras, PyTorch Lightning, Scikit, OpenCV, NLTK, spaCy
- **Tools**:   GIT, Jupyter, Hugging Face, Virtual Machine, PostgreSQL

Hobbies and Interests

- Ping Pong!

- 1st Dan in Taekwondo (Martial Arts)