

# Haniyeh Ehsani Oskouie

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## Education

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### Academic Qualifications

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- **University of California, Los Angeles (UCLA)**  
*Computer Science (Doctorate of Philosophy)* 2023-Present  
GPA: 3.78/4 | Supervisor: Prof. Majid Sarrafzadeh
- **Sharif University of Technology**  
*Computer Engineering (Bachelor of Science)* 2018–2023  
GPA (154 Total Credits): 18.24/20 (3.72/4) | Top 30% | Supervisor: Prof. Shohreh Kasaei

### Related Courses

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Autonomous Agents & Foundation Models, Advanced Neural Networks & Deep Learning, Artificial Life for Computer Graphics & Vision, Reinforcement Learning, Automated Reasoning, Advanced Data Mining, Computer Animation, Principles of Image Processing, Machine Learning, Modern Information Retrieval, Artificial Intelligence, Numerical Computation, Stochastic Processes in Bioinformatics

## Research Interests

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- Trustworthy AI
- Applied Machine Learning
- Scene Flow Estimation

## Experience

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- **Research Assistant at the University of California, Los Angeles**  
*eHealth Research Lab, Under the Supervision of Prof. Majid Sarrafzadeh* Sep 2023 - Present
- **Junior Research Assistant at the Chinese University of Hong Kong & Imperial College London**  
*Under the Supervision of Prof. Farzan Farnia and Prof. Seyed Mohsen Moosavi-Dezfooli* Jul 2023 - Sep 2023
- **Intern at Iran Telecommunication Research Center**  
*Computer vision researcher at AI labs, Under the Supervision of Prof. Mohammad-Shahram Moin* Oct 2022 - Feb 2023
- **Undergraduate Research Assistant at University of Birmingham**  
*Cognitive Robots and Systems Lab, Under the Supervision of Prof. Mohan Sridharan* Mar 2022 - Apr 2023
- **Summer Intern at the Chinese University of Hong Kong**  
*Under the Supervision of Prof. Farzan Farnia* Jul 2022 - Oct 2022
- **Undergraduate Research Assistant at Sharif University of Technology**  
*Under the Supervision of Prof. Hamid R. Rabiee* Mar 2021 - Dec 2021

For more details kindly refer to my website.

## Publications

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- **H. Ehsani Oskouie\***, C. Chance\*, C. Huang\*, M. Capetz\*, E. Eyson\*, M. Sarrafzadeh, "Leveraging Large Language Models and Topic Modeling for Toxicity Classification," submitted to International Conference on Computing, Networking and Communications (ICNC 2025).
- **H. Ehsani Oskouie**, L. Levine, M. Sarrafzadeh, "Exploring Cross-model Neuronal Correlations in the Context of Predicting Model Performance and Generalizability," submitted to *AAAI Conference on Artificial Intelligence 2025*.
- **H. Ehsani Oskouie**, MS. Moin, and S. Kasaei, "Attack on Scene Flow using 3D Point Clouds," *IEEE International Workshop on Machine Learning for Signal Processing (MLSP 2024)*.
- **H. Ehsani Oskouie**, and F. Farnia, "Interpretation of Neural Networks is Susceptible to Universal Adversarial Perturbations," *ICASSP 2023 - 2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pp. 1–5, 2022.

## Technical and Personal Skills

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- **Machine Learning Tools:** PyTorch, Tensorflow, Pandas, Numpy, Scikit-learn, OpenCV, Matplotlib, Matlab
- **Programming Languages:** Python, Java, JavaScript, C, Assembly (8086, MIPS), R
- **Data Management & Databases:** MySQL
- **CAD & Simulation Tools:** Quartus, Proteus, ModelSim, Packet Tracer, Wireshark, Arena, Arduino, Code Vision

## Honors and Awards

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- Ranked **136<sup>th</sup> (top 0.1%)** in the National Universities Entrance Exam for Mathematics and Physics Majors among over 140,000 participants
- Iran Open National Robotics Competition: **4<sup>th</sup> place** in Soccer Open league 2016
- Farzcup Provincial Robotics Competition: **1<sup>st</sup> place** in Big Field 2016 & **3<sup>rd</sup> place** in Soccer Open leagues 2016
- Faracup Provincial Robotics Competition: **1<sup>st</sup> place** in Line Follower 2015 & **3<sup>rd</sup> place** in Soccer Open leagues 2016
- Shokufa Regional Robotics Competition: **2<sup>nd</sup> place** in Firefighter league 2015