

# Masoud Hadi

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## EDUCATION

- Isfahan University of Technology** Isfahan, Iran
  - B.Sc. in Computer Engineering – Intelligent Systems* 2019-2024
  - GPA: 17.96/20.0; Rank: 9th out of 80 students
  - Thesis: Community Detection with Graph Neural Networks; Grade: 20/20*

## PUBLICATIONS

- GS-VTON: Controllable 3D Virtual Try-on with Gaussian Splatting** Under review  
Masoud Hadi\*, Yukang Cao\*, Liang Pan, Ziwei Liu
- RODEO: Robust Outlier Detection via Exposing Adaptive Out-of-Distribution Samples** ICML 2024  
Hossein Mirzaei, Mohammad Jafari, Hamid Reza Dehbashii, Ali Ansari, Sepehr Ghobadi, **Masoud Hadi**, Arshia Soltani Moakhar, Mohammad Azizmalayeri, Mahdieh Soleymani Baghshah, Mohammad Hossein Rohban

## RESEARCH EXPERIENCES

- Nanyang Technological University** Remote
  - Under the supervision of Prof. Ziwei Liu, in collaboration with Postdoc Dr. Yukang Cao.* Jan 2023 – Dec 2023
    - Researching interactions between 3D avatars and objects using Gaussian Splatting.
    - Exploring methods to ensure visual and spatial consistency
    - Developing the first virtual try-on approach using Gaussian Splatting, pioneering in achieving realistic and accurate virtual fittings.
- Isfahan University of Technology** Isfahan, Iran
  - Under the supervision of Prof. Abdolreza Mirzaei.* Jan 2023 – Dec 2023
    - Developed a novel method for community detection by integrating Maximum Likelihood Estimation (MLE) into a Graph Neural Network training process.
    - Enhanced accuracy in identifying community structures by incorporating MLE, leading to improved detection within graph-based models.
- Sharif University of Technology** Remote
  - Under the supervision of Prof. Mohammad Hossein Rohban and Prof. Mahdieh Soleymani.* Jun 2021 – Jan 2024
    - Developed a data-centric approach to enhance the detection of out-of-distribution (OOD) input samples.
    - Focused on the targeted classification of adversarially perturbed in-distribution and out-of-distribution samples.
    - Conducted experiments exploring the use of text-to-image generative models to improve OOD detection performance.

## TEACHING EXPERIENCE

- Discrete Mathematical Structures** Fall 2022  
*Teaching Assistant under Prof. Mirzaei* Isfahan University of Technology
- Operating System Principles** Spring 2023  
*Teaching Assistant under Prof. Zeynab Zali* Isfahan University of Technology

## HIGHLIGHT COURSES

- Selected IUT Courses:** Principles of Computational Intelligence (17.7/20), Artificial Intelligence (17.65/20), Data Structures (17.5/20), Applied Linear Algebra (20/20), Discrete Mathematical Structures (19/20), Probability and Statistics (19/20), Theory of Formal Languages (20/20), Game Theory (18/20)

## WORK EXPERIENCES

- National Iranian Gas Company** Summer 2020
  - Software Engineer Intern*
    - Worked as a software engineer to enhance the functionality of some inefficient programs

## SKILLS

- Programming Languages:** Python, C, C++, C#, R, Matlab
- Deep Learning Frameworks:** PyTorch, TensorFlow, Keras
- Programming Libraries:** OpenCV, Numpy, Pandas, Scikit-Learn, Matplotlib, Selenium, Scrapy

## LANGUAGES

- Persian: Native, English: C1