

# Sepehr KAZEMI RANJBAR

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🔍 [google scholar](#)

🐙 [github](#)

🌐 [linkedin](#)

## EDUCATION

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- 2020-now    **Sharif University**, *B.Sc., Electrical Engineering, Communication Systems.*  
GPA: 18.36/20
- 2016-2020    **Allameh Tabatabaei High School**, *High School Diploma, Physics and Mathematics.*  
GPA: 19.83/20

## RESEARCH INTERESTS

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- (Multi-Modal) Large Language Model
- Explainability and Robustness of Machine Learning Systems
- Graph Neural Networks
- Reinforcement Learning

## PUBLICATIONS

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### CONFERENCE PAPERS

1. **Sepehr Kazemi Ranjbar** and Emad Fatemizadeh. ExIQA: Explainable Image Quality Assessment Using Distortion Attributes, WACV 2025
2. **Sepehr Kazemi Ranjbar\***, Ali Rasekh\*, Milad Heidari, and Wolfgang Nejdl. ECOR: Explainable Clip for Object Recognition, AAAI 2025
3. Ali Mamaghani, Ali Nourian, Negin Mohtaram, Alireza Shokrani, Seyed Mohsen Nasiri, **Sepehr Kazemi Ranjbar**, Alireza Mohammadi, Navid Nikaein, and Babak Hossein Khalaj. LLM for 5G Network Management. ICLMCN 2024

### IN-PROCESSING PAPERS

4. **Sepehr Kazemi Ranjbar**, Mohammad Ostadmohammadi, HamidReza Rabiee and Arash Amini. GNTIN: Graph Neural Temporal Interaction Network.
5. **Sepehr Kazemi Ranjbar\***, Ali Rasekh\*, Simon Gottschalk and Wolfgang Nejdl. Generative Explainable Image Classification via Identifying Rationales.
6. Ali Rasekh, AmirAbass Afzali, Borna Khodabande, **Sepehr Kazemi Ranjbar**, Simon Gottschalk and Wolfgang Nejdl. A DPO framework for Addressing Adversarial Attacks to Vision Language Models.

## RESEARCH EXPERIENCES

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2023-present	<b>L3S Laboratory, Hannover, Germany</b> Working with Ahmet Iscen (Google DeepMind) and Prof. Wolfgang Nidel (Leibniz University). Doing research projects about Explainability and Robustness of Vision Language Models. Resulted to a publication [2] and two are in processing [5,6].
2023-present	<b>Sharif University of Technology, Electrical Engineering Department</b> Working with Prof. Emad Fatemizadeh (Sharif University of Technology). Doing research projects about application of Vision Language Models in Image Quality Assessment. Resulted in one publication [2].
2023-present	<b>DML Laboratory, Tehran, Iran</b> Working with Profs. HamidReza Rabiee and Arash Amini (Sharif University of Technology). Doing a research project about Graph Temporal Interaction Network. One publication is in processing [4].

2023-2024	<b>5G Laboratory, Sharif University of Technology / Eurecom Research Center, Biot, France</b> Worked with Prof. Babak Khalaj (Sharif University of Technology) and Prof. Navid Nikaein (Eurecom Research Center). Did a research project about utilizing LLMs for 5G network management. Resulted to a publication [3].
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## SELECTED COURSES

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### GRADUATE COURSES

- Security and Privacy in Machine Learning (on-going)
- Deep Generative Models (on-going)
- Reinforcement Learning(19/20) (Project: Presenting recent advancements in language-based reinforcement learning.
- Game Theory(18/20) (Project: Modeling resource allocation in a communication network with stable matching and auction
- Computer Vision(17.7/20)
- Deep Learning(17.1/20) (Project: GAN-Bert: a semi-supervised learning method for text classification → [link](#))
- Image Processing (20/20) (Project: SR-GCN: a GNN for Image Super Resolution → [link](#))

### UNDER-GRADUATE COURSES

- Introduction to Machine Learning (20/20) (Project: Denoising of images based on mixture models → [link](#))
- Microprocessor Systems (20/20) (Project: Presenting of recent advancements in ARM architecture)
- Computer Architecture (18.2/20) (Project: Building a calculator with floating point operations on STM-32 → [link](#))
- Introduction to Robotic Systems (18/20) (Project: Simulation of a manipulator and a mobile robot → [link](#))
- Digital Signal Processing (19.1/20) (Project: Circle detection based on wavelet transform → [link](#))
- Signal and System (20/20) (Project: Song Detection based on Fourier Transform → [link](#))
- Convex Optimization (17.2/20)
- Object Oriented Programming (20/20) (Project: Building Farm Frenzy 3 with JAVA → [link](#))

## TEACHING ASSISTANCE

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2024	Digital Image Processing ( <i>Prof. Emad Fatemizadeh</i> )
2023	Machine Learning ( <i>Prof. Mohammad B. Shamsollahi</i> )
2023	Communcation Systems ( <i>Prof. MohammadReza Pakravan</i> )
2023	Electric Circuits Theory ( <i>Prof. Emad Fatemizadeh</i> )
2022	Engineering Mathematics ( <i>Prof. Davood Poreh</i> )
2022	Electrical Circuits and Lab ( <i>Prof. Emad Fatemizadeh</i> )

## HONORS AND AWARDS

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2019	Silver Medal of 32th physics Olympiad of IRAN
2020-present	Top 15% GPA of my class

## LANGUAGES

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ENGLISH:	Fluent
PERSIAN:	Native

## SKILLS

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Programming Skills:	PYTHON, C/C++, MATLAB, JAVA, ASSEMBLY
Computer Skills:	PSPICE, PROTEUS, MPLAB, LINUX(UBUNTU,KALI), COMSOL, $\LaTeX$