

# Ramtin Moslemi



## SUMMARY

Highly motivated researcher with a strong foundation in **Artificial Intelligence** and **Machine Learning**, eager to apply theoretical knowledge to practical challenges. My main focus lies in **Reinforcement Learning**, with a commitment to addressing key issues in **Adversarial Robustness** to build more secure and **Trustworthy AI** systems. I am also deeply interested in **Geometric Deep Learning**, and the broad applications of **Generative AI**.

## RESEARCH INTERESTS

- Reinforcement Learning
- Adversarial Robustness
- Geometric Deep Learning
- Generative Models

## EDUCATION

### SHARIF UNIVERSITY OF TECHNOLOGY

2020-present

B.S. IN COMPUTER ENGINEERING

- Thesis: *Transferring Distributional Robustness in Knowledge Distillation* supervised by [Dr. Najafi](#).
- Courses: *Artificial Intelligence* | *Machine Learning* | *Game Theory* | *3D Computer Vision* | *Security & Privacy in ML*

## EXPERIENCE

### SHARIF UNIVERSITY OF TECHNOLOGY

2023-present

RESEARCH ASSISTANT AT ROBUST AND INTERPRETABLE MACHINE LEARNING LAB

- Worked on adversarial robust learning and its generalization issues under the supervision of [Dr. Rohban](#).

RESEARCH ASSISTANT AT MACHINE LEARNING LABORATORY

- Worked on music generation under the supervision of [Dr. Soleymani](#) & [Dr. Javidpour](#).
- Our paper was accepted at the [IEEE International Conference on Big Data 2024, Workshop on AI Music Generation](#).

RESEARCH ASSISTANT AT SHARIF CENTER FOR INFORMATION SYSTEMS AND DATA SCIENCE

- Worked on anomaly detection and federated learning under the supervision of [Dr. Rohban](#), [Dr. Khalaj](#) & [Dr. Ahmadi](#).

RESEARCH ASSISTANT AT FOUNDATION AI MODELS LABORATORY

- Worked on security and privacy of Kolmogorov-Arnold Networks under the supervision of [Dr. Amini](#).

TEACHING ASSISTANT AT THE DEPARTMENT OF COMPUTER ENGINEERING

- Graduate: *Deep Learning* (x2) | *Reinforcement Learning* (x2) | *Security & Privacy in ML* | *Advanced 3D Computer Vision*
- Undergraduate: *Machine Learning* (x3) | *Artificial Intelligence* | *Probability & Statistics* (x3) | *Linear Algebra*

TEACHING ASSISTANT AT THE DEPARTMENT OF COMPUTER SCIENCE

- Graduate: *Generative Models* | *Deep Learning* | *Machine Learning Theory*

TEACHING ASSISTANT AT THE DEPARTMENT OF ELECTRICAL ENGINEERING

- Graduate: *Deep Generative Models*

## SKILLS

**PROGRAMMING LANGUAGES** *Experienced:* Python | C | C++ | SQL | Java *Familiar:* R | Matlab | C#

**FRAMEWORKS & LIBRARIES** *Deep Learning:* PyTorch | TensorFlow | Keras | JAX *Vision:* OpenCV | YOLO

**SOFTWARE ENGINEERING** Object Oriented Design | Microservice Architecture | Agile Development

**TOOLS AND TECHNOLOGIES** *DevOps:* Docker | Kubernetes | Git | Prometheus | Grafana *MLOps:* MLFlow | TFX

**OTHER SKILLS** Linux | Bash |  $\text{\LaTeX}$  | Web Scraping | Teaching | Presentation | Teamwork

**LANGUAGES** *Native:* Persian *Fluent:* English *Intermediate:* Spanish