

Radmehr Karimian

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EDUCATION

Sharif University of Technology (Abbr. SUT)

Bachelor of Science in Electrical Engineering

Helli 1 High School (Affiliated with NODET)

High School Diploma in Mathematics and Physics

Sep. 2019 - Present

Current GPA: 3.72/4.0(17.62/20)

Aug. 2019

GPA: 4.0/4.0(19.90/20)

RESEARCH INTERESTS

- Statistical Learning
- High Dimensional Statistics
- Statistical Interfaces
- Probability Theory

AWARDS

Best Student Award

Awarded for being among best student of the year

Sep. 2020

Bachelor Thesis Award

Awarded for being among top 15% bachelor theses of the year

Oct. 2023

Best Bachelor Thesis Award

Second place among top 15% Bachelor Project (First in communication field)

Oct. 2023

RESEARCH & PUBLICATIONS

Remote Research

Mar. 2023 – Present

- Novel risk function inspired by different divergences including f-divergence for Semi-supervised Learning
- Provide an upper bound for metric distances on ideal performance
- Empirical analysis on different datasets and losses based on divergences
- Paper Published in ICLR Tiny Track | [Available here](#)

Researcher in R&D Team | Biosen Group & North Carolina State University

Dec. 2021 – Present

- Developed an state-of-art Digital stethoscope
- Worked on data compression and data transmission and noise canceling of stethoscope
- Preprint Available [Here](#)

SELECTED COURSES WITH PROJECT

★**High Dimensional Probability** 🧠 | Sharif University of Technology

- Final project about adversarial attacks[[Report](#)][[Presentation](#)]

★**Information Theory, Statistics, and Learning** 🧠 | Sharif University of Technology

- Final project about imbalance and robust semi-supervised learning [[Report](#)][[Presentation](#)]

★**Deep Learning** 🧠 | Sharif University of Technology

- Final project about Multi-modal Deep Learning[[Project](#)]

★**Information Theory** | Sharif University of Technology

Convex Optimization 🧠 | Sharif University of Technology

- Final project about theoretical and practical analysis of GD and SGD

Statistical Learning 🧠 | Sharif University of Technology

Machine Learning 🧠 | Sharif University of Technology

◦**CS 189/289A** | UC Berkeley

◦**STAT 157** | UC Berkeley

◦**Math 18.100** | MIT

◦**Math 18.06** | MIT

SKILLS

Languages: C/C++, Python, Java, Matlab, R

Libraries: Pandas, NumPy, Matplotlib, Keras, Sklearn, MLflow, Simulink, Cvxpy

Tools: Git/GitHub, VS Code, Linux, Spice, L^AT_EX

LANGUAGES

Persian(Native)

English(Highly Fluent)[[TOEFL R:21 W:28 S:24 W:24](#)] [GRE Q:170 V:141 AW:3]

German(beginner)

HOBBIES

Watching Sports(NBA, UEFA Champions League, F1)

Painting(Sketching)

Playing Soccer