# Radmehr Karimian

siradmehr  Website  radmehrkarmian  radmehr.karimian@gmail.com/@ee.sharif.edu

## EDUCATION

**Sharif University of Technology** (Abbr. SUT) — Sep. 2019 - Present
*Bachelor of Science in Electrical Engineering* — *Current GPA: 3.72/4.0(17.62/20)*
**Helli 1 High School** — Aug. 2019
*High School Diploma in Mathematics and Physics* — *GPA: 4.0/4.0(19.90/20)*

## RESEARCH INTERESTS

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

## AWARDS

**Best Student Award** — Sep. 2020
*Awarded for being among best student of the year*

**Bachelor Thesis Award** — Oct. 2023
*Awarded for being among top 15% bachelor theses of the year*

**Best Bachelor Thesis Award** — Oct. 2023
*Second place among top 15% Bachelor Project (First in communication field)*

## RESEARCH & PUBLICATIONS

**Remote Research** | Alan Turing Institute — Mar. 2023 – Jan. 2024
- Novel risk function inspired by different divergences including f-divergence for Semi-supervised Learning
- Provide an upper bound for metric distances on ideal performance
- Impirical analysis on different datasets and losses based on divergences
- Paper Published in ICLR 2024 Tiny Track and ISIT 2024 | Available here

**Researcher in R&D Team** | Biosen Group — Dec. 2021 – Feb. 2022
- 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
⋆**Information Theory** | Sharif University of Technology
**Convex Optimization**  | Sharif University of Technology
**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
**Tools**: Git/GitHub, VS Code, Linux, Spice, LaTeX

## Languages

**Persian**(Native)
**English**(Highly Fluent)[TOEFL R:24 W:28 S:24 W:24] [GRE Q:170 V:141 AW:3]
**German**(beginner)

## Hobbies

**Watching Sports**(NBA, UEFA Champions League, F1, MLB)
**Painting**(Sketching)
**Playing Soccer**