MOHAMMAD SANEIAN

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EDUCATION

PhD in Computer Science

Northeastern University

Sept 2022 – Present Boston

B.Sc. in Computer Engineering

Sharif University of Technology

Sept 2017 – Feb 2022 Tehran, Iran

SKILLS

- Proficient in: Python C/C++, Java
- LaTeX, PHP, HTML, CSS, Javascript
- Python libraries: Pytorch, Tensorflow, Pandas, Numpy, sklearn

HONORS AND AWARDS

- Silver medal at International Olympiad of Informatics 2017
- Silver medal at Asian Pacific Olympiad of Informatics 2017
- Gold medal at ACM ICPC regional contest 2018
- Gold medal at National Informatics Olympiad 2016
- Bronze medal at National Informatics Olympiad 2015
- Competetive programming contests
  - Snackdown19 onsite contest finalist (22th out of 25000 teams)
  - FCPC-2019 (ACM style national contest) winner
  - Amirkabir-2019 ACM winner

PUBLICATIONS

- **Streaming Edge Coloring with Asymptotically Optimal Colors**
  S. Behnezhad, M. Saneian
  Published at ICALP 2024
- **Are socially-aware trajectory prediction models really socially-aware?**
  S. Saadatnejad, M. Bahari, P. Khorsandi, M. Saneian, M. Moosavi-Dezfooli, A.Alahi
  Published in Journal of Transportation Research Part C , 2022
- **Simple Streaming Algorithms for Edge Coloring**
  M. Asari, M. Saneian, H. Zarrabi-Zadeh
  Published in ESA 2022

SELECTED COURSES

Algorithms for Big Data, Probability and Statistics, High dimensional probability, Distributed Computing, Approximation algorithms, Artificial intelligence, Machine learning for Bioinformatics

TEACHING

Teaching Assistant

Sharif University of Technology

- Artificial intelligence, Design of algorithms, Data Structures and Algorithms, Discrete Mathematics

Informatics Olympiad Teacher

Sept 2016 – Sept 2017

- Young Scholars' Club Fall 2017
- Allame Helli HighSchool Summer 2017 - Fall 2018
- Azerbaijan IOI team September 2019

INTERNSHIP

Rahnema College

January 2020 - February 2020

Gained some knowledge around Machine learning and Deep learning. We did a team project for detecting fraudulent comments on Sanjagh website based on their extracted features.

RESEARCH EXPERIENCE

Trajectory Prediction

EPFL (École polytechnique fédérale de Lausanne)

July 2020 – November 2020

- In this internship our project was attacking trajectory prediction models. We studied the impact of localization errors on their predictions which is essential for real-world applications.
- under supervision of Prof. Alexandre Alahi

Algorithms

Sharif University of Technology

April 2021 - September 2022

- Researching in context of streaming algorithms, edge coloring problem.
- under supervision of Prof. H.Zarrabi-zadeh