Mohammad Saneian

Email: sanmoh99@gmail.com Phone: +1 617 371 7339

Codeforces: Sasa

Last update: September 2023

EDUCATION

• Northeastern University

PhD in computer science

o Advisor: Soheil Behnezhad and Mahsa Derakhshan

Boston, USA Sep 2022 - Present

Tehran, Iran

• Sharif University of Technology

B.Sc. in Computer Engineering

Sep 2017 - February 2022

Tehran, Iran

Sep 2013 - Jun 2017

• Allameh Helli 1 High School Diploma in Mathematics and Physics Discipline

Affiliated with the National Organization for the Development of Exceptional Talents (NODET)

Research Interests

• Theoretical computer science

• Sublinear algorithms

• Game theory

PUBLICATIONS

• Streaming Edge Coloring with Asymptotically Optimal Colors

S. Behnezhad, M. Saneian

Submitted

• 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

Honors and Awards

• Silver Medalist in the 29 th International Olympiad of Informatics (IOI)	2017
• Onsite contest finalist at Snackdown19, ranked 22th among 25,000 teams	2019
• Silver Medalist in the 11 th Asia-Pacific Informatics Olympiad (APIO)	2017
• Gold Medalist in the 26 th Iranian National Olympiad in Informatics (INOI) Gold medals are awarded to 8 people selected after a year of competition among over 10000 students.	2016
• Bronze medalist in the 25 th Iranian National Olympiad in Informatics (INOI)	2015
• Gold medalist in the ACM ICPC regional contest	2018
• Winner of ACM-style contests: FCPC-2019, Amirkabir 2019	2019

Internship

• Rahnema College Tehran, Iran Data Science Intern Spring 2020

- Gained some knowledge around Machine learning and Deep learning.
- Became familiar with Big data technologies, such as Hadoop and Spark.
- o Did a team project for detecting fraudulent comments on Sanjagh website based on their extracted features.

• EPFL (Ecole polytechnique federale de Lausanne)

Research Intern

Lausanne, Switzerland July 2020 - March 2021

Supervisor: Professor Alexander Alahi

o 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.

TEACHING ASSISTANT

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Teaching Assistant, CE Department

Sharif University of Technology

* Discrete Mathematics: Instructor: Prof. Mohammad Ali Abam	Spring 2019
* Discrete Mathematics: Instructor: Prof. Hamid Zarrabi-Zadeh	Spring 2020
* Data Structures and Algorithms: Instructor: Prof. Mahdi Safarnejad-Boroujeni	Fall 2019
* Design of algorithms: Instructor: Prof. Ali Sharifi-Zarchi	Spring 2020
* Design of algorithms: Instructor: Prof. Hamid Zarrabi-Zadeh	Fall 2020
* Artificial Intelligence: Instructor: Prof. M.Hossein Rohban	Fall 2020

ACADEMIC SERVICES

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Olympiad in Informatics Instructor

Summer 2017 - Fall 2018

Allame Helli 1 High school

* Taught Algorithms and Data Structures to students preparing for the National Olympiad in Informatics (INOI).

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Scientific Staff/Committee

- * Scientific Staff, DataDays-2021, Iran's Largest Machine Learning and Data Science Competition.
- * Scientific Committee, Iran's National Olympiad in informatics, final exams theory problems.
- * Scientific member of Rasta school at summer 2020, developed creative methods to teach Flow algorithms to high school students.

SKILLS

- o TOEFL: Total: 104, Reading: 25, Listening: 30, Speaking: 26, Writing: 23
- o Programming: Python (Proficient), C++ (Proficient), Java (Proficient), R, Sql, Bash
- o Machine Learning Frameworks:: PyTorch, Keras, NumPy, Scikit-Learn, Pandas
- Web Development & Database: HTML, CSS, JavaScript, Docker, PostgreSQL, Spark
- o Miscellaneous: Git, Linux, Windows, LATEX, Microsoft Office (Word, Excel, Powerpoint)