Seyed Sobhan Mir Yoosefi

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RESEARCH INTERESTS

⋄ Theoretical Machine Learning

⋄ Reinforcement Learning

⋄ Online Learning

EDUCATION

⋄ **Ph.D. in Computer Science** 09/2017 - present
Princeton University
Advisor: Prof. Yoram Singer and Robert Schapire

⋄ **M.A. in Computer Sceiece** 09/2017 - 06/2019
Princeton University
Advisor: Prof. Yoram Singer and Robert Schapire

⋄ **B.Sc. Degree in Computer Engineering** 09/2013 - 06/2017
Sharif University of Technology, Tehran, Iran
Major : Software Engineering

HONORS AND AWARDS

⋄ Princeton first year **fellowship** in Natural Sciences and Engineering 2017

⋄ **3rd place** in ACM-ICPC Greater New York Regional Contest 2017

⋄ **2nd place** in 15th & 16th Regional Contest of ACM-ICPC in Asia 2013 & 2014

⋄ Recipient of **the Grant** for Undergraduate Studies from 2013 - present
the Iranian National Foundation of Elites, for Gold Medal of Olympiad in Informatics and academic success

⋄ **2nd highest GPA** among all students of Computer Engineering 2013 - present
About 150 students

⋄ **Gold Medal** in *Iranian National Olympiad in Informatics* 2012
Awarded a gold medal among more than 4000 contestants

⋄ Member of **The National Organization for Development of Exceptional Talents (NODET)** 2006 - present

PUBLICATIONS

⋄ **Reinforcement Learning with Convex Constraints**
NeurIPS 2019
Sobhan Miryoosefi, Kianté Brantley, Hal Daumé III, Miroslav Dudik, Robert Schapire

⋄ **Constrained episodic reinforcement learning in concave-convex and knapsack settings**
submitted to NeurIPS 2020
Kianté Brantley, Miroslav Dudik, Thodoris Lykouris, Sobhan Miryoosefi, Max Simchowitz, Aleksandrs Slivkins, Wen Sun

TEACHING AND WORKING EXPERIENCE

⋄ **Mathematics of Machine Learning Summer School** Summer 2019
Organized by Microsoft Research and University of Washington
Teaching Assistant
Topic: Statistical Learning Theory

⋄ **Princeton University**
Teaching Assistant
Courses: Advanced Algorithm Design (Fall 2018), Theoretical Machine Learning (Spring 2019), Introduction to Machine Learning (Spring 2020)

◇ Internship at **Cafebazaar**
Software Developer (Summer 2016)
Developing a customized Android OS used by fraud detection team

◇ **Sharif University of Technology**
Teaching Assistant
Courses: Probability and statistics (Fall 2015), Design of Algorithms (Fall 2015 & 2016), Computer Architecture (Spring 2016)

◇ **Preparation of Iran National Olympiad in Informatics**   2013 - 2017
Training students during *INOI*'s summer camp, where I present subjects on Graph Theory, Algorithms, and Programming to qualified applicants from whom the members of the national team for IOI are to be selected.
Preparation of theoretical and programming contests.

◇ **Teaching Olympiad in Informatics Related Topics**   2012 - 2017
Preparing high school students for Olympiad in Informatics
Topics: Algorithms, Graph Theory, Programming, Combinatorics

SKILLS

◇ **Programming**: C++, Python, Java, Matlab

◇ **ML Framework**: PyTorch

◇ **Language**: English, Persian

◇ **Document Preparation:** Microsoft Office, LaTeX

SERVICES

◇ Program Commitee for ICML 2020 workshop
Theoretical Foundation of Reinforcement Learning