

## Seyed Sobhan Mir Yoosefi

Computer Science Department  
Princeton University  
35 Olden Street  
Princeton, NJ 08544

miryoosefi@cs.princeton.edu  
sobhan.miryoosefi@gmail.com  
(+1)609-325-8779

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### RESEARCH INTERESTS

- ◇ Theoretical and Applied Machine Learning
- ◇ Reinforcement Learning
- ◇ Online Learning

### EDUCATION

- ◇ **Ph.D. in Computer Science** 09/2017 - present  
Princeton University  
**Advisor:** Prof. Chi Jin and Robert Schapire
- ◇ **M.A. in Computer Science** 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

### PUBLICATIONS

- ◇ **Reinforcement Learning with Convex Constraints**  
*NeurIPS 2019*  
Sobhan Miryoosefi, Kianté Brantley, Hal Daumé III, Miroslav Dudík, Robert Schapire
- ◇ **Constrained Episodic Reinforcement Learning in Concave-convex and Knapsack Settings**  
*NeurIPS 2020*  
(by alphabetical order) Kianté Brantley, Miroslav Dudík, Thodoris Lykouris, Sobhan Miryoosefi, Max Simchowitz, Aleksandrs Slivkins, Wen Sun
- ◇ **Bellman Eluder Dimension: New Rich Classes of RL Problems, and Sample-Efficient Algorithms**  
*NeurIPS 2021*  
(by alphabetical order) Chi Jin, Qinghua Liu, Sobhan Miryoosefi
- ◇ **A Simple Reward-free Approach to Constrained Reinforcement Learning**  
ArXiv Preprint  
Sobhan Miryoosefi, Chi Jin

### HONORS AND AWARDS

- ◇ Princeton first year **fellowship** in Natural Sciences and Engineering 2017
- ◇ **3<sup>rd</sup> place** in ACM-ICPC Greater New York Regional Contest 2017
- ◇ **2<sup>nd</sup> place** in 15<sup>th</sup> & 16<sup>th</sup> Regional Contest of ACM-ICPC in Asia 2013 & 2014
- ◇ Recipient of **the Grant** for Undergraduate Studies from 2013 - 2017  
**the Iranian National Foundation of Elites**, for Gold Medal of Olympiad in Informatics and academic success
- ◇ **2<sup>nd</sup> highest GPA** among all students of Computer Engineering 2013 - 2017  
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

<b>WORKING EXPERIENCE</b>	◇ <b>Google</b> <span style="float: right;">Fall 2021</span> Research Intern
	◇ <b>Snap Inc.</b> <span style="float: right;">Summer 2021</span> Research Intern Ad-ranking
	◇ <b>Princeton University</b> <span style="float: right;">2017 - present</span> Research Assistant
	◇ <b>Cafebazaar</b> <span style="float: right;">Summer 2016</span> Software Developer Intern Fraud Detection Team
<b>TEACHING EXPERIENCE</b>	◇ <b>Princeton University</b> <span style="float: right;">2017 - present</span> Teaching Assistant Courses: Advanced Algorithm Design (Fall 2018), Theoretical Machine Learning (Spring 2019), Introduction to Machine Learning (Spring 2020), Convex Optimization (Fall 2020)
	◇ <b>Mathematics of Machine Learning Summer School</b> <span style="float: right;">Summer 2019</span> Organized by Microsoft Research and University of Washington Teaching Assistant Topic: Statistical Learning Theory
	◇ <b>Sharif University of Technology</b> Teaching Assistant Courses: Probability and statistics (Fall 2015), Design of Algorithms (Fall 2015 & 2016), Computer Architecture (Spring 2016)
	◇ <b>Preparation of Iran National Olympiad in Informatics</b> <span style="float: right;">2013 - 2017</span> Training students during <i>INOI</i> '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.
	◇ <b>Teaching Olympiad in Informatics Related Topics</b> <span style="float: right;">2012 - 2017</span> Preparing high school students for Olympiad in Informatics Topics: Algorithms, Graph Theory, Programming, Combinatorics
<b>SKILLS</b>	◇ <b>Programming:</b> C++, Python, Java, Matlab
	◇ <b>ML Framework:</b> PyTorch
	◇ <b>Language:</b> English, Persian
	◇ <b>Document Preparation:</b> Microsoft Office, L <sup>A</sup> T <sub>E</sub> X
<b>SERVICES</b>	◇ Program Committee for ICML 2020 workshop <i>Theoretical Foundation of Reinforcement Learning</i>
	◇ Reviewer for ICML 2021
	◇ Program Committee for ICML 2021 workshop <i>Reinforcement Learning Theory</i>
	◇ Reviewer for NeurIPS 2021