

## Seyed Sobhan Mir Yoosefi

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- 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

- WORK EXPERIENCE**
- ◇ **Google** Fall 2021  
Research Intern, ATHENA  
Conducting experiments to facilitate and improve model training in Google Ads  
Hosts: Himanshu Jain and Kaushal Patel
  - ◇ **Snap Inc.** Summer 2021  
ML Engineer Intern, Ad-ranking  
Conducting research and experiments to improve ranking models for Ads  
Host: Xiang Wu
  - ◇ **Princeton University** 2017 - present  
Research Assistant

- 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 Spotlight*  
(by alphabetical order) Chi Jin, Qinghua Liu, Sobhan Miryoosefi
  - ◇ **A Simple Reward-free Approach to Constrained Reinforcement Learning**  
ArXiv Preprint 2021  
Sobhan Miryoosefi, Chi Jin

- RESEARCH EXPERIENCE**
- ◇ Theoretical and Applied Machine Learning
  - ◇ Reinforcement Learning
  - ◇ Online Learning

<b>HONORS AND AWARDS</b>	◇ Princeton first year <b>fellowship</b> in Natural Sciences and Engineering	2017
	◇ <b>3<sup>rd</sup> place</b> in ACM-ICPC Greater New York Regional Contest	2017
	◇ <b>2<sup>nd</sup> place</b> in 15 <sup>th</sup> & 16 <sup>th</sup> Regional Contest of ACM-ICPC in Asia	2013 & 2014
	◇ Recipient of <b>the Grant</b> for Undergraduate Studies from <b>the Iranian National Foundation of Elites</b> , for Gold Medal of Olympiad in Informatics and academic success	2013 - 2017
	◇ <b>2<sup>nd</sup> highest GPA</b> among all students of Computer Engineering About 150 students	2013 - 2017
	◇ <b>Gold Medal</b> in <i>Iranian National Olympiad in Informatics</i> Awarded a gold medal among more than 4000 contestants	2012
	◇ Member of <b>The National Organization for Development of Exceptional Talents (NODET)</b>	2006 - present
<b>SKILLS</b>	◇ <b>Programming:</b> C++, Python, Java, Matlab	
	◇ <b>ML Framework:</b> TensorFlow, PyTorch	
	◇ <b>Language:</b> English, Persian	
	◇ <b>Document Preparation:</b> Microsoft Office, L <sup>A</sup> T <sub>E</sub> X	
<b>TEACHING EXPERIENCE</b>	◇ <b>Princeton University</b> Teaching Assistant Courses: Advanced Algorithm Design (Fall 2018), Theoretical Machine Learning (Spring 2019), Introduction to Machine Learning (Spring 2020), Convex Optimization (Fall 2020)	2017 - present
	◇ <b>Mathematics of Machine Learning Summer School</b> Organized by Microsoft Research and University of Washington Teaching Assistant Topic: Statistical Learning Theory	Summer 2019
	◇ <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> 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.	2013 - 2017
	◇ <b>Teaching Olympiad in Informatics Related Topics</b> Preparing high school students for Olympiad in Informatics Topics: Algorithms, Graph Theory, Programming, Combinatorics	2012 - 2017
	◇ Program Committee for ICML 2020 workshop <i>Theoretical Foundation of Reinforcement Learning</i>	
	◇ Reviewer for ICML 2021	
<b>SERVICES</b>	◇ Program Committee for ICML 2021 workshop <i>Reinforcement Learning Theory</i>	
	◇ Reviewer for NeurIPS 2021	
	◇ Reviewer for CISS 2022	