Seyed Sobhan Mir Yoosefi

Google
111 8th Ave
New York, NY 10011

w: miryoosefi@google.com
p: sobhan.miryoosefi@gmail.com

EDUCATION

◇ **Ph.D. in Computer Science** 09/2017 - 05/2022
Princeton University
Advisor: Prof. Chi Jin and Robert Schapire
Thesis: Provable RL with Constraints and Function Approximation

◇ **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

WORK EXPERIENCE

◇ **Google** July 2022 - present
Software Engineer at Google Research NYC
Team: FLOS · ATHENA

◇ **Google** Fall 2021
Research Intern, ATHENA
Conducting experiments to fasciliate 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 - 2022
Research Assistant

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**
NeurIPS 2020
(by alphabetical order) Kianté Brantley, Miroslav Dudik, 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**
ICML 2022
Sobhan Miryoosefi, Chi Jin

◇ **Provable Reinforcement Learning with a Short-Term Memory**
ICML 2022
Yonathan Efroni, Chi Jin, Akshay Krishnamurthy, Sobhan Miryoosefi

RESEARCH EXPERIENCE

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

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 - 2017
  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 - 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

SKILLS

- ◇ **Programming**: C++, Python, Java, Matlab
- ◇ **ML Framework**: TensorFlow, PyTorch
- ◇ **Language**: English, Persian
- ◇ **Document Preparation:** Microsoft Office, LaTeX

TEACHING EXPERIENCE

- ◇ **Princeton University** 2017 - present
  Teaching Assistant
  Courses: Advanced Algorithm Design (Fall 2018), Theoretical Machine Learning (Spring 2019), Introduction to Machine Learning (Spring 2020), Convex Optimization (Fall 2020)
- ◇ **Mathematics of Machine Learning Summer School** Summer 2019
  Organized by Microsoft Research and University of Washington
  Teaching Assistant
  Topic: Statistical Learning Theory
- ◇ **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

SERVICES

- ◇ Program Commitee for ICML 2020 workshop
  Theoretical Foundation of Reinforcement Learning
- ◇ Reviewer for ICML 2021
- ◇ Program Commitee for ICML 2021 workshop
  Reinforcement Learning Theory
- ◇ Reviewer for NeurIPS 2021
- ◇ Reviewer for CISS 2022