Ali Mortazavi

Contact Information

Computer Science Department
University of Victoria,

Email: alithemorty@gmail.com
Home: https://alimorty.github.io

Education

University of Victoria (Tehran Polytechnic), Victoria, BC, Canada

Ph.D. Computer Science, 2021 –
Under supervision of Prof. Nishant Mehta,

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

M.Sc. Artificial Intelligence, 2017 – 2020
CGPA: **17.34/ 20**

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

B.Sc. Computer Software Engineering, 2013 – 2017
CGPA: Overall **18.47 / 20 (3.78/4)**
Selected Course **19.33 / 20 (4/4)**

Research Experience

Shanghai University of Finance and Economics, Shanghai, China

Visiting Research Student at Institute for Theoretical Computer Science
Under supervision of Prof. Nick Gravin Summer 2019
Online Stochastic Matching

Research Interests

- Online Learning
- Online Algorithms
- Algorithmic Game Theory
- Mechanism Design

Honors and Awards

- **Ranked 3rd** (out of 100) in term of Cumulative GPA among students of computer engineering of 2013 Entrance 2017
- Awarded as Outstanding Student in Amirkabir University of Technology 2015-2017
- Awarded direct admission to M.Sc. program in **Artificial Intelligence** at *Amirkabir University of Technology* as Talented Undergraduate Student 2017
- **Ranked 19th** in the Final Stage in **National Scientific Olympiad** of Computer Engineering 2016
- Qualified in the Selection Exam of **National Scientific Olympiad** of Computer Engineering 2016
  Qualified as 9th among the students in all the Universities in the Tehran Region
- **Ranked 1st** in the Department of Mathematics Team Selection Exam 2015
- **Ranked Top 0.8%** In The Country-wide University Entrance Exam 2013

Teaching Experience

- **Probability and Statistics**, Teaching Assistant spring 2018
  Under Supervision of Prof. Amirhaeri (haeri@aut.ac.ir)
- **Special Class for Olympiad Preparation**, Instructor spring 2017 and 2018
  Intro. To Theory of Computation, Algorithm Design
- **Algorithm Design**, Teaching Assistant spring 2017
  Under Supervision of Prof. Rahmati (zrahmati@aut.ac.ir)
- **Algorithm Design**, Teaching Assistant spring 2016
  Under Supervision of Prof. Mousavi (srm@aut.ac.ir)

Highlighted Courses

- Probability and Statistics 20/20
- Stochastic Processes 20/20
- Data Mining 19/20
- Collective Decision Making A+
- Probabilistic Graphical Models 17/20
- Statistical Machine Learning 20/20
- Data Structures 20/20
- Algorithm Design 20/20
- Advanced Topics in Algorithms 20/20
- Theory of Computation 20/20
- Discrete Mathematics 17.5/20
- Computational Geometry 19.3/20

Attended Conferences and Seminars

- **Winter Seminar Series in advanced topics of computer science** Jan 2020
  Talks on "Computational Concentration of measure and robust learning" by Omid Etesami, "Fairness in Clustering" by Mohammad Mahdian, "Price of competition and Dueling Games" by Sina Dehghani, etc.
- **Workshop on Data Science and Combinatorial Algorithms** April 2019
  An introduction to "mechanism design and differential privacy" by Dr. Mahdian, "Clustering and stable instances" by Prof. Salavatipour, and other talks.
- **Short course on Information Design** December 2018
  An introduction to information design by Prof. Haghpanah.
- **Block Chain and Cryptocurrency** February 2018
  An introduction to Block Chain Mechanism and different Cryptocurrency systems. By Prof. Hatami and Prof. Salavati.
- **Journal Club at IPM** Augest 2017 - October 2017
  Weekly seminars in Cognitive Science hosted by Prof. Abbasian.
- **Workshop on Game Theory** February 2017
  An introduction by Prof. Salavati to Game Theory Concepts.

Posts

- **Online Stochastic Matching** [Link]
- **Baraess Paradox and Smartphone Navigator Applications** [Link]
- **Why mean squared error** [Link]

Academic Projects

Image Denoising and Segmentation Using Markov Random Field [code][report]
Optimizing energy function using Simulated Annealing, Comparing different color spaces results.
Text Summarization [code][report]
Extracting important sentences as a summary using page rank algorithm and word2vec.
Text Classification [code][report]
Using different metrics (mutual information, information gain, etc.) for extracting important words for document classification task.