Ali Mortazavi

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| | University of Victoria, | Home: https://alimorty.github.io |

EDUCATION	**University of Victoria**, 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
	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)**

INTERNSHIP   **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
- Mechanism Design
- Algorithmic Game Theory
- Randomized Algorithms

PUBLICATIONS

- Cristóbal Guzmán, and Nishant Mehta, and Ali Mortazavi."Best-case lower bounds in online learning" Advances in Neural Information Processing Systems 34 (2021).
- Ali Mortazavi, Junhao Lin, and Nishant Mehta. "On the price of exact truthfulness in incentive-compatible online learning with bandit feedback: a regret lower bound for WSU-UX." International Conference on Artificial Intelligence and Statistics. PMLR, 2024.

PRESENTATIONS   "Best-case lower bounds in online learning", Advances in Neural Information Processing Systems 34 (2021). (Link to the presentation)

ATTENDED CONFERENCES AND SEMINARS

- **Conference on Learning Theory (COLT)**   2024
- **Symposium on Theory of Computing (STOC)**   2024
- **Upper Bound Conference**, Edmonton, Canada   2023
  A workshop highlighting recent advancements in Machine Learning, including recent theoretical results in Reinforcement Learning and learning theory.
- **Mathematics of Ethical Decision Making Series**, PIMS   2022
  Talks on the ethical and societal aspects of algorithm design, speakers include Gautam Kamath, Jamie Morgenstern, and Sampath Kannan.
- **Conference on Neural Information Processing Systems (NeurIPS)**   2021

- **Mechanism Design for Social Good** 2020

  An interdisciplinary workshop where the focus is to use techniques from algorithms, optimization, and mechanism design to address various societal issues.

- **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.

HONORS AND AWARDS	

- UVic Charles S. Humphrey Graduate Student Award 2022
- University of Victoria Scholarship for Graduate Student Award 2021
- **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

- **Advanced Data Structures and Optimization**, Teaching Assistant spring 2024
  Instructor Prof. Valerie King (val@uvic.ca)
- **Collective Decision Making**, Teacher Assistant spring 2021
  Instructor Prof. Valerie King (val@uvic.ca)
- **Algorithms and Data Structures**, Guest Lecturer fall 2022
  Instructor Prof. Nishant Mehta (nmehta@uvic.ca)
- **Theory of Computation**, Teaching Assistant fall 2023
  Instructor Prof. Quinton Yong (quintonyong@uvic.ca)
- **Algorithms and Data Structures**, Teaching Assistant fall 2023
  Instructor Prof. Rich Little (rlittle@uvic.ca)
- **Algorithms and Data Structures**, Teaching Assistant summer 2023
  Instructor Prof. Venkatesh Srinivasan (srinivas@uvic.ca)
- **Algorithms and Data Structures**, Teaching Assistant spring 2023, 2024
  Instructor Prof. Sajin Koroth (skoroth@uvic.ca)
- **Algorithms and Data Structures**, Teaching Assistant spring 2021 and fall 2021, 2022
  Instructor Prof. Nishant Mehta (nmehta@uvic.ca)
- **Probability and Statistics**, Teaching Assistant spring 2018
  Instructor Prof. Amirhaeri (haeri@aut.ac.ir)

HIGHLIGHTED COURSES				
• Probability and Statistics	20/20	• Algorithm Design	20/20
• Stochastic Processes	20/20	• Advanced Topics in Algorithms	20/20
• Probabilistic Graphical Models	17/20	• Theory of Computation	20/20
• Statistical Machine Learning	20/20	• Discrete Mathematics	17.5/20
• Machine Learning Theory	A+	• Computational Geometry	19.3/20
• Collective Decision Making	A+	• Alg. for Convex Optimization	A+
• Intro. to Online Learning	A+		

ACADEMIC EXPERIMENTAL PROJECTS

Image Denoising and Segmentation Using Markov Random Field [code][report]

Text Summarization [code][report]

Text Classification [code][report]