

Ali Mortazavi

CONTACT INFORMATION	Dept. of Computer Eng. & IT, Amirkabir University of Technology, Hafez St., Tehran, Iran.	Email: ali_mortazavi@aut.ac.ir Home: https://alimorty.github.io Tel: (+98) 937 146-2838																								
EDUCATION	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. Gravin summer 2019 Online Stochastic Matching																									
RESEARCH INTERESTS	<ul style="list-style-type: none">• Algorithmic Game Theory• Online Algorithms• Mechanism Design• Online Learning																									
HONORS AND AWARDS	<ul style="list-style-type: none">• 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 <i>Amirkabir University of Technology</i> 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 Mathematics Team Selection Exam 2015• Ranked Top 0.8% In The Country-wide University Entrance Exam 2013																									
TEACHING EXPERIENCE	<ul style="list-style-type: none">• 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	<table><tr><td>• Probability and Statistics</td><td>20/20</td><td>• Data Structures</td><td>20/20</td></tr><tr><td>• Stochastic Processes</td><td>20/20</td><td>• Algorithm Design</td><td>20/20</td></tr><tr><td>• Data Mining</td><td>19/20</td><td>• Advanced Topics in Algorithms</td><td>20/20</td></tr><tr><td>• Artificial Intelligence</td><td>20/20</td><td>• Theory of Computation</td><td>20/20</td></tr><tr><td>• Probabilistic Graphical Models</td><td>17/20</td><td>• Discrete Mathematics</td><td>17.5/20</td></tr><tr><td>• Statistical Machine Learning</td><td>20/20</td><td></td><td></td></tr></table>		• Probability and Statistics	20/20	• Data Structures	20/20	• Stochastic Processes	20/20	• Algorithm Design	20/20	• Data Mining	19/20	• Advanced Topics in Algorithms	20/20	• Artificial Intelligence	20/20	• Theory of Computation	20/20	• Probabilistic Graphical Models	17/20	• Discrete Mathematics	17.5/20	• Statistical Machine Learning	20/20		
• Probability and Statistics	20/20	• Data Structures	20/20																							
• Stochastic Processes	20/20	• Algorithm Design	20/20																							
• Data Mining	19/20	• Advanced Topics in Algorithms	20/20																							
• Artificial Intelligence	20/20	• Theory of Computation	20/20																							
• Probabilistic Graphical Models	17/20	• Discrete Mathematics	17.5/20																							
• Statistical Machine Learning	20/20																									

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** August 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.

SKILLS

- **Theoretical Skills**
Algorithms, Probability and Statistics
- **Technical Skills**
Python, Java, C/C++

LANGUAGES

- **Persian:** Native
- **English:** TOEFL: **99** (Reading: 23, Listening: 28, Speaking: 23, Writing: 25)
GRE General: **317** (Quantitative: 167, Verbal: 150, Writing: 3.0)