

# Ali Mortazavi

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## CONTACT INFORMATION

Dept. of Computer Eng. & IT,  
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## EDUCATION

**Amirkabir University of Technology** (Tehran Polytechnic), Tehran, Iran  
M.Sc. Artificial Intelligence, 2017 – 2020  
CGPA: **17.12 / 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. Gravin](#) summer 2019  
Online Stochastic Matching

## RESEARCH INTERESTS

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

## HONORS AND AWARDS

- **Ranked 3<sup>rd</sup>** (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 19<sup>th</sup>** 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 9<sup>th</sup>** among the students in all the Universities in the Tehran Region
- **Ranked 1<sup>st</sup>** in 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](mailto: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](mailto:zrahmati@aut.ac.ir))
- **Algorithm Design**, Teaching Assistant spring 2016  
Under Supervision of [Prof. Mousavi](#) ([srm@aut.ac.ir](mailto:srm@aut.ac.ir))

## HIGHLIGHTED COURSES

- |                                  |       |                                 |         |
|----------------------------------|-------|---------------------------------|---------|
| • 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)