

Ali Mortazavi

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: **17.34 / 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. 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 | • 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)