

Faezeh Motiei

Address

Kastanjelaan 1-145
5616LH, Eindhoven
The Netherlands

Contact Info

✉ f.motiei@student.tue.nl
✉ faezehmotiei@gmail.com

RESEARCH INTERESTS

- ◇ Graph Theory
- ◇ Algorithm Design
- ◇ Algorithmic Game Theory
- ◇ Geometric Algorithms
- ◇ Human-Computer Interaction

EDUCATION

- ◇ **MSc in Computer Science and Engineering** 2022 – present
Department of Mathematics and Computer Science, Eindhoven University of Technology, Eindhoven, The Netherlands
GPA: 8.4/10

Advanced Algorithms: (9/10),
Geometric Algorithms: (10/10),
Algorithms for Geographic Data (8/10),
Massively Parallel Algorithms (8/10),
Automated Reasoning (9/10),
Algorithms for NP-hard Problems (present),
Graphs and Algorithms (present)
- ◇ **BSc in Computer Software Engineering** 2015 – 2020
Department of Computer Engineering, Sharif University of Technology, Tehran, Tehran, Iran
GPA: 17.75/20

Algorithmic Game Theory: (20/20),
Design of Algorithms: (20/20),
Discrete Structures: (20/20),
Advanced Programming: (19.9/20),
Data Structures: (19.2/20),
Fundamental of Programming: (20/20),
Approximation Algorithms: (18.5/20),
- ◇ **Diploma in Mathematics and Physics Discipline** 2011 – 2015
Farzanegan High School, Affiliated with the National Organization for the Development of Exceptional Talents (NODET), Tehran, Tehran, Iran
GPA: 18.43/20

TEACHING AND RESEARCH EXPERIENCES

- ◇ **Informatics Olympiad Teaching Mentor And Teacher in Tehran Farzanegan High School (NODET)** 2015 – 2017
- ◇ **Instructing Informatics Olympiad Materials in Allameh Tabatabaei High School** 2016 – 2019
- ◇ **Instructing Informatics Olympiad Materials in Mashhad Farzanegan High School (NODET)** 2020 – 2022
- ◇ **Informatics Olympiad Teaching Mentor And Teacher in Tehran Farzanegan High School (NODET)** 2022
- ◇ **Teacher Assistant**, Discrete Structures: Instructor: Prof. H. Zarrabi-Zadeh Spring 2018
- ◇ **Teacher Assistant**, Discrete Structures: Instructor: Prof. A. Abam Spring 2018

	<ul style="list-style-type: none"> ◇ Teacher Assistant(The Head of Theory Team), Design of Algorithms: Instructor: Prof. H. Zarrabi-Zadeh (around 90 students took this course) Autumn 2019 ◇ Teacher Assistant, Design of Algorithms: Instructor: Prof. A. Abam Autumn 2019 ◇ Undergraduate Thesis, study and research around the odd/even dominating set problem on the open/closed neighborhood condition for several classes of graphs such as trees, unicycles, and regular graph. Adviser: Prof. H. Zarrabi-Zadeh 2019 – 2020 ◇ Graph Theory Team, discussion and study around different graph theory problems in a self-formed team with A. Jabalameli, M. Saghafian, Y. Alimohammadi, R. Rezvan, G. Shahkarami, H. Akrami at Department of Mathematical Sciences, Sharif University of Technology. 2015 – 2016 ◇ Researcher, working on Certified Approximation Algorithms for the Fermat Point, Supervisor: Prof. Evanthia Papadopoulou, Mentor: Martin Suderland, Faculty of Informatics, Universit della Svizzera italiana (Switzerland) 2021
AWARDS AND HONORS	<ul style="list-style-type: none"> ◇ Recipient of the grant for Master studies from the Amandus H. Lundqvist Scholarship Program (ALSP) 2022 – present ◇ Ranked 1st female team in the Sharif University CodeCup Contest, Tehran, Iran. 2015 ◇ Ranked 606st in Nationwide University Entrance Exam among more than 100,000 participants, 2015, Iran. 2015 ◇ Ranked 1st female team and 21st in general ranking of the ACM Contest for Students of High Schools, Tehran, Iran. 2012
NOTABLE PROJECTS	<ul style="list-style-type: none"> ◇ Children Of Time An action game with 2 players who can fight with each other on different PCs (Java). ◇ Children Charity Foundation A website which charity foundation could use it for better communication and better access to information and other automated processes (Django). ◇ OtaghApp (Hotel Booking System) A website that works similar to travel agencies. With the help of this system, the owners of the residence can share their residences so that tourists can compare them and book them according to their needs. (Django). ◇ Persian word corrector a Persian search system which can suggest 5 best word which match with a non-complete word that searched in system and also you can add new words on this dictionary (C/C++). ◇ Contract Grammar Compiler a compiler system for a language which can use in business for contracts (Python). ◇ School Service Path Finder a system which can use for school services. School service can define its destinations and system offers him a path. ◇ Persian Search Engine an information retrieval system for a set of Persian advertising ads. The data set in this project was a collection of digital adverts from the site's data set and Divar app, a Persian app (Python). ◇ ShopGram Auto-complete System An auto-complete system for words and phrases that will be used in search part of the ShopGram application. ShopGram is a marketing app that collects and sells products provided in Instagram pages. (Python).
TRAINING AND CERTIFICATION	<ul style="list-style-type: none"> ◇ Attended in 2nd Iranian Conference on Computational Geometry (ICCG) 2019, Sharif University of Technology, Tehran, Iran ◇ Attended in 11th Winter School on Computational Geometry (WSCG) 2019, Amirkabir University of Technology, Tehran, Iran
OTHER ACTIVITIES	<ul style="list-style-type: none"> ◇ Executive staff at ACM, Sharif University of Technology, Tehran, Iran 2015

- ◇ **Executive staff at AI Challenge**, an international artificial intelligence programming contest, Sharif University of Technology, Tehran, Iran 2015
- ◇ **Designer, Technical and Executive staff at Graph Theory workshop**, a workshop to make middle school students familiar with basic concepts of graph theory by playing games and solving problems, Farzanegan 1 Middle School (NODET), Tehran, Iran 2019
- ◇ **Designer, Technical and Executive staff at Python Programming Contest**, a 2-level programming contest for middle school students, Farzanegan 1 Middle School (NODET), Tehran, Iran 2019
- ◇ **Member of ICO**, Tehran, Iran
- ◇ **Member of Parvaz Group**, reading Persian stories for children at the Eindhoven Public Library, Eindhoven, Netherlands

TECHNICAL SKILLS

- ◇ Programming: Proficient in Python, C/C++. Fluent at Java. Familiar with MATLAB, Verilog.
- ◇ Web Development: Comfortable with HTML, CSS, Django.
- ◇ Typesetting: Fluent at Microsoft Office Word and L^AT_EX.

LANGUAGES

- ◇ Fluent in English and Native Persian.