

INTERESTS

- Complexity theory
- Quantum computing
- Theoretical computer science

EDUCATION

Master's in Computer Science
University of Waterloo

2021–Current
Waterloo, Canada

- Current GPA: **97/100**

B.Sc. in Computer Science
Sharif University of Technology

2016–2021
Tehran, Iran

- GPA: **19.57/20**
- Minor degree: **Mathematics and Applications**
- rank in year group (Math department): **1st**

SELECTED COURSES

- | | |
|--|----------------------------|
| – Adv. Topics: Quantum Communication and Query Complexity (96/100) | University of Waterloo |
| – Adv. Topics: Eigenvalues and Polynomials (97/100) | University of Waterloo |
| – Quantum Information Processing (99/100) | University of Waterloo |
| – Logic [Gödel's Incompleteness Theorems] (20/20) | Sharif University of Tech. |
| – Foundations of Mathematics (20/20) | Sharif University of Tech. |
| – Intro. to Cryptography (20/20) | Sharif University of Tech. |
| – Theory of Computation (20/20) | Sharif University of Tech. |

EXPERIENCE

Research Assistant under supervision of Dr. Shalev Ben-David

2021–Current

B.Sc. Project Under Supervision of Dr. Amir Daneshgar

2020–2021

theory of computation from the viewpoint of homogeneous, discrete and local dynamical systems

PROJECTS

CS867 Course Project	Spring 2022
A Survey on Impossibility results in the key agreement problem	University of Waterloo
CS860 Course Project	Fall 2021
A survey on Dinur's proof of PCP theorem	University of Waterloo
Complexity Theory Seminar	Spring 2021
A survey on interactive proof systems (in persian)	Sharif University of Tech.

TEACHING

- TA of Algorithms Design and Analysis, <i>Dr. Therese Biedl</i>	Fall 2022
- TA of Logic, <i>Dr. Mohammad Ardeshir</i> .	Spring 2020, Fall 2020
- TA of Foundations of Theory of Computation (Graduate), <i>Dr. Amir Daneshgar</i> .	Spring 2020
- Head TA of Foundations of Mathematics, <i>Dr. Mohammad Safdari</i> .	Spring 2020
- Head TA of Linear Programming, <i>Dr. Kasra Alishahi</i> .	Fall 2019
- TA of Automata and Formal Languages, <i>Dr. Javad B. Ebrahimi</i> .	Fall 2019

TENCHINCAL SKILLS

- **JAVA**, upper intermediate expertise; implemented several projects in basic and advanced programming courses.
- **Python**, intermediate expertise; implemented projects in various courses, such as Cryptography, Analysis of Algorithms, Data Structures, Operating Systems, and Computer Networking.
- **SageMath**, implemented a few projects in Discrete Mathematics.
- **MATLAB**, implemented several small projects in Numerical Analysis.
- **Solidity**, implemented several projects in Blockchain course.
- **Racket**, TAed Racket programming course at University of Waterloo
- **L^AT_EX**, upper intermediate expertise; wrote project reports, lecture notes, exercises.

LANGUAGES

- **Persian**: Native fluency
- **English**: Proficient fluency (TOEFL iBT: 113/120.)

PERSONAL SKILLS

- **Sharif Music Club**
 - Elected central board member (specifically in charge of club's properties and archives). 2019-2020
 - Taught classical piano at Sharif University of Technology. 2019-Pandemic
- **Music**
 - Classical piano 2012-Current
 - Self taught Jazz piano 2018 -Current
 - *Tom'bak* (Persian percussion instrument). 2006-2010
 - 2nd-best performance in the classical section of "Sharif Festival of Music", and 3rd place for music composition in "Sharif Festival of Art".
 - Accompaniment in Lento Singing group and Pathetique ensemble.
 - Attended Chetham's summer school of piano 2018