

Vahid R. Asadi

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RESEARCH INTERESTS

- **Theoretical Computer Science:** Algorithmic Coding Theory, Probabilistically Checkable and Interactive Proof Systems, Quantum Computation and Information, Complexity and Applications of Lattice Problems.

EDUCATION

- | | |
|--|--------------------------------|
| Simon Fraser University | Burnaby, Canada |
| • <i>M.Sc. in Computer Science; GPA: 4.17/4.33</i> | <i>Sep. 2019 – Present</i> |
| Advisor: Prof. Igor Shinkar | |
| University of Tehran | Tehran, Iran |
| • <i>B.Sc. in Computer Engineering (Software); GPA: 17.76/20</i> | <i>Sep. 2014 – August 2019</i> |
| Shahid Ejei 1 High School | Isfahan, Iran |
| • National Organization for Development of Exceptional Talents | <i>Sep. 2010 – July 2014</i> |
| <i>Diploma in Mathematics and Physics</i> | |

PUBLICATIONS AND PREPRINTS

- [1] Vahid R. Asadi and Igor Shinkar. “Relaxed Locally Correctable Codes with Improved Parameters”. In: (Sept. 15, 2020). arXiv: 2009.07311 [cs.CC].

TALKS

- Relaxed Locally Correctable Codes with Improved Parameters CMU Theory Lunch – *Nov. 2020*

AWARDS AND HONORS

- **Best Undergraduate Project Award** University of Tehran
Distributing Requests in Content Delivery Networks *Spring 2019*
- **Sharif AI Challenge** Sharif University of Technology
Second Rank *2016*
The Sharif AI Challenge is an annual competition held at the Sharif University of Technology on the topic of Artificial Intelligence where teams from universities of Iran, compete with programming techniques.

NOTABLE COURSES AND GRADES

- **Courses at Simon Fraser University:**
 - Approximation and Randomized Algorithms: A-
 - Machine Learning: A+
 - Special Topics in Theoretical Computer Science: A+
 - Statistical Machine Learning: A+
- **Courses at University of Tehran:**

◦ Data Structures: 19.6/20	◦ Linear Algebra: 20/20
◦ Algorithm Design: 17/20	◦ Data Transmission: 20/20
◦ Automata and Language Theory: 19.75/20	◦ Introduction to Wireless Networks: 19.8/20
◦ Algorithmic Graph Theory: 18/20	◦ Convex Optimization (Graduate Course): 18.2/20
◦ Engineering Probability and Statistics: 20/20	

TEACHING EXPERIENCE

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| Teaching Assistant <ul style="list-style-type: none">• <i>Approximation and Randomized Algorithms</i>
Instructor: Prof. Igor Shinkar | Simon Fraser University
<i>Fall 2020</i> |
| Head Teaching Assistant <ul style="list-style-type: none">• <i>Introduction to Wireless Networks</i>
Instructor: Prof. Pooya Shariatpanahi | University of Tehran
<i>Spring 2019</i> |
| Head Teaching Assistant <ul style="list-style-type: none">• <i>Data Transmission</i>
Instructor: Prof. Pooya Shariatpanahi | University of Tehran
<i>Fall 2018</i> |
| Teaching Assistant <ul style="list-style-type: none">• <i>Engineering Probability and Statistics</i>
Instructor: Prof. Behnam Bahrak | University of Tehran
<i>Fall 2017 & Fall 2018</i> |
| Teaching Assistant <ul style="list-style-type: none">• <i>Algorithmic Graph Theory</i>
Instructor: Prof. Behnam Bahrak | University of Tehran
<i>Spring 2018</i> |
| Teaching Assistant <ul style="list-style-type: none">• <i>Design and Analysis of Algorithms</i>
Instructors: Prof. Zahed Rahmati & Prof. Hamid Mahini | University of Tehran
<i>Fall 2016 & Spring 2017</i> |

UNDERGRADUATE RESEARCH EXPERIENCE

- | | |
|---|---|
| Summer Internship <ul style="list-style-type: none">• <i>Research Intern in Mobile Communications Lab.</i>
Supervised by Prof. Vahid Shah-Mansouri<ul style="list-style-type: none">◦ Research on machine learning techniques and optimization algorithms with applications in networks. | School of ECE, University of Tehran
<i>July 2018 - Sep. 2018</i> |
| Undergraduate Project <ul style="list-style-type: none">• <i>Distributing Requests in Content Delivery Networks</i>
Supervised by Prof. Pooya Shariatpanahi<ul style="list-style-type: none">◦ Research on probabilistic algorithms for distributing requests in CDNs, with respect to reducing maximum load and communication cost. | School of ECE, University of Tehran
<i>Sep. 2018 - June 2019</i> |

PROFICIENCIES

- **Programming Languages:** Python, Java, MATLAB/Octave, C/C++
- **General:** Microsoft Office, Git, L^AT_EX

LANGUAGES

- **Persian:** Native
- **English:** Fluent
TOEFL iBT Score (Oct 13, 2018): 108/120 (Reading: 29/30, Listening: 29/30, Speaking: 23/30, Writing: 27/30)