Vahid R. Asadi

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School of Computing Science
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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
- *M.Sc. in Computer Science; GPA: 4.13/4.33* — *Sep. 2019 – Present*
  Advisor: Prof. Igor Shinkar

University of Tehran — Tehran, Iran
- *B.Sc. in Computer Engineering (Software); GPA: 17.76/20* — *Sep. 2014 – August 2019*

Shahid Ejei 1 High School — Isfahan, Iran
- National Organization for Development of Exceptional Talents — *Sep. 2010 – July 2014*
  Diploma in Mathematics and Physics

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

Teaching Experience

Teaching Assistant — Simon Fraser University
- *Approximation and Randomized Algorithms* — *Fall 2020*
  Instructor: Prof. Igor Shinkar

Head Teaching Assistant — University of Tehran
- *Introduction to Wireless Networks* — *Spring 2019*
  Instructor: Prof. Pooya Shariatpanahi

Head Teaching Assistant — University of Tehran
- *Data Transmission* — *Fall 2018*
  Instructor: Prof. Pooya Shariatpanahi

Teaching Assistant — University of Tehran
- *Engineering Probability and Statistics* — *Fall 2017 & Fall 2018*
  Instructor: Prof. Behnam Bahrak

Teaching Assistant — University of Tehran
- *Algorithmic Graph Theory* — *Spring 2018*
  Instructor: Prof. Behnam Bahrak

Teaching Assistant — University of Tehran
- *Design and Analysis of Algorithms* — *Fall 2016 & Spring 2017*
  Instructors: Prof. Zahed Rahmati & Prof. Hamid Mahini

Undergraduate Research Experience

Summer Internship — School of ECE, University of Tehran
- *Research Intern in Mobile Communications Lab.* — *July 2018 - Sep. 2018*
  Supervised by Prof. Vahid Shah-Mansouri
  - Research on machine learning techniques and optimization algorithms with applications in networks.

Undergraduate Project — School of ECE, University of Tehran
- *Distributing Requests in Content Delivery Networks* — *Sep. 2018 - June 2019*
  Supervised by Prof. Pooya Shariatpanahi
  - Research on probabilistic algorithms for distributing requests in CDNs, with respect to reducing maximum load and communication cost.

Proficiencies

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

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)