

## EDUCATION

- **Ph.D. in Computer Science** 2021 – Present  
IST Austria, Klosterneuburg, Austria
- **B. Sc. in Computer Engineering** 2016 – 2021  
Sharif University of Technology, Tehran, Iran  
GPA: 18.93/20

## PEER-REVIEWED CONFERENCE PUBLICATIONS

- “[Deterministic Sub-exponential Algorithm for Discounted-sum Games with Unary Weights](#)”  
**Ali Asadi**, Krishnendu Chatterjee, Raimundo Saona, Jakub Svoboda  
in *the Proceedings of the 39<sup>th</sup> Annual ACM/IEEE Symposium on Logic in Computer Science (LICS’24)*, 2024.
- “[Polynomial reachability witnesses via Stellensätze](#)”  
**Ali Asadi**, Krishnendu Chatterjee, Hongfei Fu, Amir Kafshdar Goharshady, Mohammad Mahdavi  
in *the Proceedings of the 42<sup>nd</sup> ACM SIGPLAN International Conference on Programming Language Design and Implementation (PLDI’21)*, 2021.
- “[Faster Algorithms for Quantitative Analysis of MCs and MDPs with Small Treewidth](#)”  
**Ali Asadi**, Krishnendu Chatterjee, Amir Kafshdar Goharshady, Kiarash Mohammadi, Andreas Pavlogiannis  
in *the 18<sup>th</sup> International Symposium on Automated Technology for Verification and Analysis (ATVA’20)*, 2020.

## UNDER-PREPARATION PAPERS

- “[Concurrent Stochastic Games with Stateful-discounted and Parity Objectives: Complexity and Algorithms](#)”  
**Ali Asadi**, Krishnendu Chatterjee, Raimundo Saona, Jakub Svoboda  
Submitted to *the 44<sup>th</sup> IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS’24)*.
- “Limit-sure Winning with Small Memory Policies in POMDPs with Reachability objectives: Complexity and Symbolic Algorithm”  
**Ali Asadi**, Krishnendu Chatterjee, Raimundo Saona, Ali Shafiee  
Submitted to *the 39<sup>th</sup> Annual AAAI Conference on Artificial Intelligence (AAAI’25)*.
- “Qualitative Analysis of Robust MDPs with LTL Specifications”  
**Ali Asadi**, Krishnendu Chatterjee, Ehsan Kafshdar Goharshady, Mehrdad Karrabi, Ali Shafiee  
Under preparation
- “A Lower bound for Howard’s Algorithm for Deterministic MDPs with Mean-payoff Objectives”  
**Ali Asadi**, Krishnendu Chatterjee, Jakob de Raaij  
Under preparation

## HONORS AND AWARDS

- Silver medal in the 10<sup>th</sup> Asia-Pacific Informatics Olympiad (APIO) 2016
- Gold medal in the 25<sup>th</sup> Iranian National Olympiad in Informatics (INOI) 2015
- Silver medal in the 24<sup>th</sup> Iranian National Olympiad in Informatics (INOI) 2014
- ISTA Ph.D. Fellowship 2021
- 2<sup>nd</sup> place in the ACM-ICPC West Asia Regional Contest, Tehran, Iran. 2016
- Iranian National Elites Foundation grant for undergraduate studies 2014 – 2021
- National Organization for Development of Exceptional Talents (NODET) member 2009 – 2016
- Research Scholarship from the Austrian Exchange Agency (OeAD-GmbH) 2019

## WORK EXPERIENCE

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- **Engineering Manager, Divar Co.** Sep. 2019 – Sep. 2021  
Led a team consisting of 10 software engineers in setting up infrastructure platforms and tools.
- **Software Engineer, CafeBazaar Co.** July 2017 – July 2019  
Contributed to the design, development, and maintenance of several systems and microservices.

## UNDERGRADUATE RESEARCH EXPERIENCE

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- **Research Intern and Remote Collaboration, IST Austria** Summer 2019  
Worked in the Chatterjee Group under the supervision of [Prof. Krishnendu Chatterjee](#).  
Scholarship awarded by the *Austrian Agency for International Cooperation in Education and Research* (OeAD-GmbH).
- **Research Assistant, Sharif University of Technology** Feb. 2020 – Apr. 2021  
Worked in the Theory Group under the supervision of [Prof. Mohammad Ghodsi](#).

## TEACHING EXPERIENCE

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- **Teaching Assistant**
  - Formal Methods: Algorithmic Approaches, Instructor: Prof. Krishnendu Chatterjee Spring 2024
  - Data Structures and Algorithms, Instructor: Prof. Ali Sharifi-Zarchi Spring 2018
  - Probability And Statistics, Instructor: Prof. Abolfazl Motahari Fall 2017
- **Member of Scientific Committee of Programming Contests**  
Designed programming contests and authored problems with an algorithmic theme.
  - **Iran's INOI Final Exams** 2022 – Present
  - **Iran's IOI Team Selection Exams** 2017
  - **INOI Summer Camp Programming Exams** 2016
- **Lecturer, Allameh Helli High School** 2016 – 2018  
Taught Algorithms and Data Structures to students preparing for the National Olympiad in Informatics (INOI).
- **Lecturer, Allameh Tabatabaee High School** 2016 – 2019  
Taught Algorithms and Data Structures to students preparing for the National Olympiad in Informatics (INOI).

## OTHER ACTIVITIES

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- **Elected Member and Vice President of Students' Scientific Chapter** 2018 – 2019