Simin Oraee

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Research Interests	
	• Concurrency,
	• Testing,
	• Model Checking

Education

- University of Kaiserslautern, Kaiserslautern, Germany   Mar 2018-present
  Ph.D. Computer Science,
  Research Assitant at **Max Planck Institute for Software Systems**
  Advisor: Prof. **Rupak Majumdar**

- **Sharif University of Technology**, Tehran, Iran   Sep 2015- Sep 2017
  M.Sc., Computer Science,
  M.Sc. Thesis: A Survey on Mincut on Planar Praphs
  Advisor: Prof. Mohammad-Hadi Foroughmand-Araabi

- **University of Tehran**, Tehran, Iran   Sep 2010- Jul 2015
  B.Sc., Mathematics,
  B.Sc. Thesis: Counting, Coding and Sampling with words
  Advisor: Prof. Morteza Mohammad-Noori

Publications

- Krishnendu Chatterjee, Monika Henzinger, Veronika Loitzenbauer, Simin Oraee and Viktor Toman. *Symbolic Algorithms for Graphs and Markov Decision Processes with Fairness Objectives.* CAV 2018.

- Burcu Kulahcioglu Ozkan, Rupak Majumdar and Simin Oraee. *Trace Aware Random Testing for Distributed Systems.* OOPSLA 2019

Honors, Awards and Grants

- **ACM-ICPC**, International Collegiate Programming Contest by ACM

  ○ Qualified for participating in **ACM-ICPC World Finals**   May 2015
  Marrakesh, Morocco

  ○ **2nd team** in Regional Contests of ACM-ICPC West Asia Region   Dec 2014
  Tehran, Iran

  ○ **4th team** in Regional Contests of ACM-ICPC West Asia Region   Dec 2013
  Tehran, Iran

  ○ **1st team** in IUST Internet Programming Contest   Oct 2014
  Tehran, Iran

  ○ **3rd team** in University of Shiraz Internet Programming Contest   Nov 2014
  Tehran, Iran

- Travel Grant for Attending the **Federated Logic Conference 2018**
  Oxford, United Kingdom   Jul 2018

- Travel Grant for Attending the 39th **Marktoberdorf Summer School**
  Marktoberdorf, Germany   Aug 2018

- Travel Grant for Attending the 4th **Heidelberg Laureate Forum**
  Heidelberg, Germany   Sep 2016

- Travel Grant for Attending the **OIST Admission Workshop**
  Okinawa, Japan   Jun 2017

- **Concours**

  ○ Ranked **2nd** in Nationwide PhD Entrance Exam in Computer Science
  Tehran, Iran,   Mar 2016

  ○ Stood among **0.2%** in Nationwide M.Sc Entrance Exam in Artificial Intelligence
  Tehran, Iran,   2015

  ○ Stood among **0.4%** in Nationwide M.Sc Entrance Exam in Computer Science
  Tehran, Iran   2014, 2015

- **Iranian National Olympiads**

  ○ Semifinalist in Olympiad in Informatics   2007, 2008
  ○ Semifinalist in Olympiad in Mathematics   2009

Teaching Experiences

- **Research Topics on Software Reliability**,
  University of Kaiserslautern   winter 2019

- **Concurrency Theory**,
  University of Kaiserslautern   winter 2018

- **Theory of Languages and Automata**,
  Sharif University of Technology   Fall 2016

- **Theory of Computation**,
  Sharif University of Technology   Spring 2016

- **Foundation of Probability**,
  University of Tehran   Fall 2011

- **Teacher**,   Jul 2013- Jun 2014
  Farzanegan Middle School.
  Subjects: Algorithms and Fundamentals of Programming,
  Scratch Software, Basic Language.

Skills and Test Scores

- Expert in C/C++, Java, TEX/LATEX.
- Familiar with Python, JavaScript, html, Scratch, Mathematica.
- Native Linux user.

Extracurricular Activities

- Speed Cubing (**My Records**: 12.69s 2x2, 30.90s Rubik)
- Member of TopCoder Community (74 Percentile)
- Member and **tester** of Codeforces Community (88 Percentile)
- Member of the Student Scientific Club   2011- 2012
- Wikipedia Contributing