

Hamed Saleh

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Research Interests

- Distributed/Parallel Computing
- Massively Parallel Computation
- Sublinear Space
- Streaming Algorithms

Education

University of Maryland, College Park, MD. GPA: 3.97/4 2018 - present
Department of Computer Science
Ph.D. in Computer Science, under supervision of Prof. Hajiaghayi
Thesis: [Sublinear Algorithms for Processing Massive Datasets](#)

Sharif University of Technology, Tehran, Iran. GPA: 16.57/20 2012 - 2017
Department of Computer Engineering
B.Sc. in Computer Engineering

Publications

**Computational Analyses of the Electoral College:
Campaigning is Hard But Approximately Manageable** AAAI'21
Sina Dehghani, Hamed Saleh, Saeed Seddighin, Shang-Hua Teng

**Streaming and Massively Parallel Algorithms for
Edge Coloring** ESA'19
DISC'19
*Soheil Behnezhad, Mahsa Derakhshan, MohammadTaghi Hajiaghayi,
Marina Knittel, Hamed Saleh*

Externalities and Fairness WWW'19
Mohammad Ghodsi, Hamed Saleh, Massoud Seddighin

In Progress Papers

Massively Parallel Constant-round Tree Contraction submitted
*MohammadTaghi HajiAghayi, Marina Knittel,
Hamed Saleh, Hsin-Hoa Su*

**Massively Parallel Algorithms for String Matching
with Wildcards** submitted
MohammadTaghi HajiAghayi, Hamed Saleh, Saeed Seddighin, Xiaorui Sun
Preprint available at [arXiv:1910.11829](https://arxiv.org/abs/1910.11829)

Honors and Awards

ACM-ICPC, International Collegiate Programming Contest by ACM.

- **15th Team** in [the 39th ACM-ICPC World Finals](#). 2015
Marrakech, Morocco
- **27th Team** in [the 37th ACM-ICPC World Finals](#). 2013
St. Petersburg, Russia
- **1st, 2nd, 1st Team** in Regional Contests of ACM-ICPC West Asia Region,
Tehran Site, respectively in [2012](#), [2013](#) and [2014](#).

	Awarded University of Maryland Dean's fellowship . University of Maryland, College Park, MD	2018 - 2019
	Gold Medal in the 20 th Iranian National Olympiad in Informatics .	2010
	Awarded as Outstanding Student by the university president. Sharif University of Technology , Tehran, Iran	2013
	Recipient of the Grant for Undergraduate Studies. from the Iran's National Elites Foundation, for outstanding academic success.	2012 - 2017
Work Experience	Professional Software Engineer <ul style="list-style-type: none"> • Software Engineer Intern at Page Bites Inc. Member of the team developing and maintaining the instant messenger imo.im. 2020 • Software Engineer at Cafe Bazaar Co. 2016 - 2018 Member of the Search project of Cafe Bazaar, dealing with Information Retrieval and Natural Language Processing challenges. • Software Engineer at Lyan Co. 2015 Started an online marketing platform startup. • Android Developer Intern at Rahnema Co. 2013 Participant in Rahnema Co. Android Development Camp. Open Source Software Developer <ul style="list-style-type: none"> • tps with Kian Mirjalali 2017 A command line tool for preparing programming problems. • site-admin with Mohammad Amin Khashkhashi Moghadam 2017 A graphical interface for monitoring and managing nodes in a contest hall. ¹ • HelliJudge with Mahrud Sayrafi. 2011 A programming competition judge with focus on security. 	
Research Experience	Research Assistant at Algorithms Laboratory 2018 - present University of Maryland, College Park <i>Under supervision of Prof. M. HajiAghayi</i> Working on distributed/massively parallel algorithms for graph/combinatorial problems. Visiting Graduate Student 2018 Simons Institute for Theory of Computing , Berkeley, CA <i>Foundations of Data Science program</i> Undergraduate member of CE Algorithm Laboratory 2016 - 2017 Sharif University of Technology <i>Under supervision of Prof. M. Ghodsi</i> Working on the problem of fair allocation of indivisible goods	
Teaching Experience	Teaching Assistant 2018 - present University of Maryland, College Park <ul style="list-style-type: none"> • Discrete Structures, Spring 2020 • Introduction to Algorithms, Spring 2018, Spring 2019, and Fall 2019 	

¹tps and site-admin are part of [IOI 2017 tools](#) developed by the organizing team

- Introduction to Computer Systems, Fall 2018

Teaching Assistant

2014 - 2016

[Sharif University of Technology](#)

- Compiler Design, Spring 2016
- Design and Analysis of Algorithms, Fall 2015 and Spring 2014
- Object Oriented Design, S. Foroughi, Fall 2015

Technical Skills

- **Operating Systems:** Mac, Linux, and Windows.
- **Typesetting:** L^AT_EX, Microsoft Office, and LibreOffice.
- **Programming Languages:** C/C++, Python, Go, Java, Bash, and MATLAB.
- **Web Technologies:** HTML5, CSS3, Django, node.js, and angularjs.
- **DevOps tools and other:** Docker, Kubernetes, CI tools, Spark, redis, MongoDB, Rabbitmq, Celery.

Other Activities

External reviewer for computer science conferences.

2018 - present

COCOON'18, ISAAC'18, WWW'20, FSTTCS'20, and SODA'21.

Member of **Scientific Committee** of Programming Competitions

2013 - 2017

Designing contests and authoring problems with algorithmic theme

[IOI 2017](#), [ACM-ICPC Regional Contests](#), [INOI](#), and [Sharif AI Challenge](#)

last modified on Feb, 2021