

Majid Daliri

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Education	New York University , New York, USA Ph.D. in Computer Science Advised by Prof. Christopher Musco University of Tehran , Tehran, Iran Undergraduate student of B.Sc. in Computer Engineering <ul style="list-style-type: none">Cumulative GPA: 3.97/4.0	2022 - 2027 2017 - 2022
Publications	<ul style="list-style-type: none">KDEformer: Accelerating Transformers via Kernel Density Estimation (ICML) 2023 Amir Zandieh, Insu Han, Majid Daliri, Amin KarbasiWeighted Minwise Hashing Beats Linear Sketching for Inner Product Estimation (PODS) 2023 Aline Bessa, Majid Daliri, Juliana Freire, Cameron Musco, Christopher Musco, Aécio Santos, Haoxiang ZhangEfficient Approximations for Cache-conscious Data Placement (PLDI) 2022 Ali Ahmadi, Majid Daliri, Amir Kafshdar Goharshady, Andreas PavlogiannisA 10-Approximation of the $\frac{\pi}{2}$-MST (STACS) 2022 Ahmad Biniyaz, Majid Daliri, AmirHossein Moradpour	
Research Internship	Research Internship, Simon Fraser University under the supervision of Prof I. Shinkar , I participated in a research internship focusing on the analysis of Boolean functions. Our primary approach involved exploring the Fourier aspects of these functions to gain deeper insights into their behavior and properties. Research Internship, HKUST under the supervision of Professor A. Goharshady , my project was to design an algorithm to parameterize the cache-conscious data placement and find the exact cache misses or an approximation. Research Internship, Max-Planck-Institut für Informatik under the supervision of Dr A. Zandieh , the research has focuses on improving the time complexity and reducing the sample counts of the approaches associated with the learning and reconstruction of Fourier of sparse set functions. Research Internship University of Windsor, Canada Under the supervision of Professor A. Biniyaz , working on some computational geometry problems, specifically on topics associated with the Euclidean Minimum Spanning tree.	Aug 2021 - Feb 2022 Jun 2021 - Jun 2022 Apr 2021 - Jan 2022 Feb 2021 - Feb 2022
Awards and Honors	Research Grant, University of Salzburg Awarded a €5,000 grant for a research internship focusing on algorithms for distribution bisimilarity, probabilistic systems verification, and quantum annealing projects.	2022

	Hong Kong PhD Fellowship Scheme (HKPFS) scholarship 2022 totaling HK\$1,445,200 (approximately \$184,100). I was among the top 300 students selected worldwide across all majors, showcasing academic excellence and research potential.
	ACM ICPC - Regional (University of Tehran) 2019 ranked 6 th among more than 100 team all around the Iran.
	Iranian National Olympiad in Informatics Finalist (IOI, Iran) 2016 are awarded to around 50 selected after a year of competition among over 10000 Students.
Service	Reviewer for Royal Society Open External Reviewer for Canadian Conference on Computational Geometry (CCCG 2023)
Conference Presentations	Accelerating Transformers via Kernel Density Estimation Poster (ICML) 2023 Weighted MinHash for Inner Product Estimation Poster (PODS) 2023 Efficient Approximations for Cache-conscious Data Placement Presentation (PLDI) 2022
Teaching	Section Leader for CSCI-UA 310 Basic Algorithms Spring 2023 Teaching Assistant NYU CS-GY 6763 Algorithmic Machine Learning and Data Science Fall 2022
Work Experience	Site Reliability Engineer at Cafebazaar 2021 - 2022 Cafebazaar, part of the Hezardastan Group, houses an internal company named Sotoon, known for its advanced Cloud and AI services. With the use of cutting-edge technologies, Sotoon provides exceptional support and solutions to parent companies within the Hezardastan Holding, including Cafe Bazaar and Divar, two leading entities in Iran. Serving as a Site Reliability Engineer in Sotoon's SPAAS team, my contributions were key in the development and upkeep of various database and platform services on a Kubernetes-based cloud infrastructure. I was responsible for extending our service offerings with additional databases and ensuring the smooth operation of all existing services.
Skills and Qualities	Theoretical Background: Proficient in Machine Learning Theory, Neural Networks, Linear Algebra, and Probability. Technical Skills: Highly skilled in C/C++, Go, Python, Bash-Scripting, PHP, JavaScript. Experience with PyTorch, TensorFlow, Django, CSS3, HTML5, and git. Other Attributes: Innovative, self-driven, and communicative, with ability to work efficiently both independently and in a team.