

Majid Daliri

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Education	New York University , New York, USA Ph.D. in Computer Science Advised by Prof. Christopher Musco 2022 - 2027
	University of Tehran , Tehran, Iran Undergraduate student of B.Sc. in Computer Engineering • Cumulative GPA: 3.97/4.0 2017 - 2022
Publications	<ul style="list-style-type: none">• Simple Analysis of Priority Sampling (Preprint) 2023 Majid Daliri, Juliana Freire, Christopher Musco, Aécio Santos, Haoxiang Zhang• KDEformer: Accelerating Transformers via Kernel Density Estimation (ICML) 2023 Amir Zandieh, Insu Han*, Majid Daliri*, Amin Karbasi (* equal contribution)• Weighted Minwise Hashing Beats Linear Sketching for Inner Product Estimation (PODS) 2023 Aline Bessa, Majid Daliri, Juliana Freire, Cameron Musco, Christopher Musco, Aécio Santos, Haoxiang Zhang• Efficient Approximations for Cache-conscious Data Placement (PLDI) 2022 Ali Ahmadi, Majid Daliri, Amir Kafshdar Goharshady, Andreas Pavlogiannis• A 10-Approximation of the $\frac{\pi}{2}$-MST (STACS) 2022 Ahmad Biniarz, Majid Daliri, AmirHossein Moradpour
Internship Highlights Program	Research Internship, HKUST Jun 2021 - Jun 2022 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 Apr 2021 - Jan 2022 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.
Awards and Honors	Research Grant, University of Salzburg Summer 2022 Awarded a €5,000 grant for a research internship focusing on algorithms for distribution bisimilarity, probabilistic systems verification, and quantum annealing projects.
	Hong Kong PhD Fellowship Scheme (HKPFS) scholarship (declined) 2022 totaling HK\$1,445,200 (approximately \$184,100). I was among the top 300 students selected world-wide across all majors, showcasing academic excellence and research potential.
	University of Michigan, Department of IOE Fellowship (declined) 2022 \$115,960 stipend over five years. Selected for exceptional academic merit.
	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 (CCCC 2023)	
Conference Presentations	Accelerating Transformers via Kernel Density Estimation (ICML) 2023	Poster
	Weighted MinHash for Inner Product Estimation (PODS) 2023	Poster
	Efficient Approximations for Cache-conscious Data Placement (PLDI) 2022	Presentation
Teaching	Section Leader for CSCI-UA 310 Basic Algorithms	Spring 2023
	Teaching Assistant NYU CS-GY 6763 Algorithmic Machine Learning	Fall 2022
	Teaching Assistant UT Design and Analysis of Algorithms, H. Mahini	Fall 2020-2021
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.	