Peyman Jabbarzade

CONTACT INFORMATION		$+1 \; (240) \; 413\text{-}7609$ $\texttt{peyman.jabarzade@gmail.com}$	
EDUCATION	 Ph.D. student, University of Maryland, College Park, US □ Majoring in Theoretical Computer Science □ Designing algorithms for: • Fundamental graph theory problems, such as Steiner Forest. • Dynamic versions of submodular functions. 	2022 - 2025	
	 M.Sc. student, Sharif University of Technology, Tehran, Ira □ Majored in Algorithms and Computation □ Studied geometric graph problems in the massively parallel computation 		
	B.Sc. studnet, Sharif University of Technology, Tehran, Iran □ Majored in Computer Engineering	n 2015 - 2019	
Publications	2-Approximation for Prize-Collecting Steiner Forest Dynamic Algorithms for Matroid Submodular Maximization Dynamic Non-monotone Submodular Maximization Dynamic Constrained Submodular Optimization with Poly Update Time A Novel Prediction Setup for Online Speed-Scaling Geometric Spanner in MPC Model	NeurIPS 2023	
Honors and Awards	Asia West Champion in ICPC World Final Contest 14th place in ACM-ICPC World Final Contest 1st place in ACM-ICPC Tehran Regional Contest Bronze medal in International Olympiad in Informatics (IOI) Gold medal in Asia-Pacific Informatics Olympiad (APIO) Gold medal in Iranian National Olympiad in Informatics	$2018 \\ 2016 \\ 2015 & 2016 \\ 2015 \\ 2015 \\ 2014$	
TECHNICAL EXPERIENCE	 Software Engineer at Balad (Map & Navigation App) □ Made Balad services more stable, scaled them, and improved comperformance between them using technologies like gRPC and Kub □ For six months, led a diverse team of ten technical members in the collecting, maintaining, and presenting location-specific data. □ Mainly wrote code in Python. Also experienced other programming like C++, Java, Go, etc. 	pernetes. e mission of	
	Summer Intern at Max Planck Institute for Informatics ☐ Worked on designing an energy-preserving online scheduling algor	2019 ithm.	
	Summer Intern at Balad (Map & Navigation App) Designed and implemented an algorithm to determine optimal routes for equipped cars in the Balad project, ensuring thorough coverage of all streets in Tehran within the minimum possible time.		
SCIENTIFIC VOLUNTEERING EXPERIENCE	Coaching Teams and Guiding Students in Competition Preparation Coaching University of Maryland's team for the ICPC World Fine Coached Sharif University of Technology's team in the ICPC World Iran's deputy leader in IOI 2020.	al of 2023.	

Task Author in International Olympiad in Informatics	
Third problem of IOI 2019, first day (Rectangles).	
International Olympiad in Informatics Host Scientific Committee	2017
Prepared IOI 2017 tasks, solutions, and test data.	
Iranian National Olympiads in Informatics Scientific Committee	
Designing programming challenges used in Iran's team selection process for IOI.	
ICPC Tehran Regional Contest Scientific Committee	