

ARYAN ESMAILPOUR

◇ aesmai2@uic.edu

EDUCATION

University of Illinois Chicago , Chicago, IL Ph.D. in Computer Science, Advisor: Stavros Sintos	2023 - 2028
University of Illinois Chicago , Chicago, IL M.Sc. in Computer Science, GPA: 4.00/4.00	2025
Amirkabir University of Technology , Tehran, Iran B.Sc. in Computer Science, GPA: 17.81/20 Thesis: <i>Spectral Graph Theory</i>	2023

RESEARCH EXPERIENCE

Research Assistant at University of Illinois Chicago , <i>Under supervision of Prof. Stavros Sintos</i>	2023 - Present
Research Assistant at the Amirkabir University of Technology ,	2021 - 2023
Researcher at Neshan Maps and Navigation ,	Summer 2022

PUBLICATIONS

Improved Approximation Algorithms for Relational Clustering · <i>with Stavros Sintos</i>	PODS, 2025
Smallest Synthetic Witnesses for Conjunctive Queries · <i>with Boris Glavic, Xiao Hu, and Stavros Sintos</i>	PODS, 2025
A Theoretical Framework for Distribution-Aware Dataset Search · <i>with Sainyam Galhotra, Rahul Raychaudhury, and Stavros Sintos</i>	PODS, 2025
Computing A Well-Representative Summary of Conjunctive Query Results · <i>with Pankaj Agarwal, Xiao Hu, Stavros Sintos, and Jun Yang</i>	PODS, 2025
Range (Rényi) Entropy Queries and Partitioning · <i>with Sanjay Krishnan, and Stavros Sintos</i>	LMCS, 2025
Combinatorial upper bounds for the smallest eigenvalue of a graph · <i>with Sara Saeedi Madani, and Dariush Kiani</i>	AdM, 2024

TEACHING/SERVICES

Program Committee: WWW 2025, CIKM 2025, CIKM 2024. Reviewer: SIGMOD, ICDT, WWW, TKDE, CIKM, SoCG.	
Teaching Assistant University of Illinois Chicago · TA , Database Systems CS480	Spring 2025
Amirkabir University of Technology · TA , Graph Theory	Fall 2022
· TA , Data Structures and Algorithms	Fall 2021
· TA , Data Structures and Algorithms	Fall 2021
· TA , Data Structures and Algorithms	Spring 2021
· TA , Algorithms Design and Analysis	Fall 2020

PROFESSIONAL EXPERIENCE

Algorithm Designer at Neshan Maps and Navigation	2021-2023
Algorithmic Contest Organizer at Quera	2019

AWARDS AND HONORS

Bronze Medal in the 28 th Iranian National Olympiad in Informatics	2018
Silver Medal in Iranian Combinatorics Olympiad	2020
Bronze Medal in Iranian Geometry Olympiad	2016

LINKS

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