Soroush Alamdari

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http://www.cs.cornell.edu/~alamdari/

RESEARCH EXPERIENCE Exact and Approximate Optimization

Scheduling

- ♦ Path Planning
- \diamond Clustering
- ♦ Graph Drawing

EDUCATION

Cornell University, Ithaca, New York, USA.

2013 (expected December 2017)

PhD in Computer Science, advised by David Shmoys

Thesis: Approximation Algorithms for Combinatorial Problems

University of Waterloo, Waterloo, Ontario, Canada.

2010 - 2012

Master of Mathematics in Computer Science, advised by Threse Biedl

Thesis: Planar Open Rectangle-of-Influence Drawings

Sharif University of Technology, Tehran, Iran.

2006 - 2010

Bachelor of Science in Computer Engineering, advised by Mohammad Ghodsi

Thesis: Fast Approximations for Map Labeling in Dynamic Frame

SELECTED PUBLICATIONS

Drives that Make Small Worlds,

submitted to ACM-SIAM Symposium on Discrete Algorithms (SODA 2018).

♦ A Bicriteria Approximation Algorithm for the k-center and k-median problems,

With David Shmoys,

Workshop on Approximation and Online Algorithms (WAOA 2017).

♦ Smart-grid Electricity Allocation via Strip Packing with Slicing,

With Therese Biedl, Timothy M. Chan, Elyot Grant, Krishnam Raju Jampani, Srinivasan Keshav, Anna Lubiw and Vinayak Pathak,

Algorithms and Data Structures Symposium (WADS 2013).

♦ Morphing Planar Graph Drawings with a Polynomial Number of Steps,

With Patrizio Angelini, Timothy M. Chan, Giuseppe Di Battista, Fabrizio Frati, Anna Lubiw, Maurizio Patrignani, Vincenzo Roselli, Sahil Singla, and Bryan T. Wilkinson,

ACM-SIAM Symposium on Discrete Algorithms (SODA 2013).

♦ Self-Approaching Graphs,

With Timothy Chan, Elyot Grant, Anna Lubiw, and Vinayak Pathak, International Symposium on Graph Drawing (GD 2012).

♦ Open Rectangle-of-Influence Drawings of Non-Triangulated Planar Graphs,

With Therese Biedl,

International Symposium on Graph Drawing (GD 2012).

Persistent Monitoring in Discrete Environments: Minimizing the Maximum Weighted Latency Between Observations,

With Elaheh Fata and Stephen L. Smith,

International Workshop on the International Journal of Robotics Research (WAFR 2012, IJRR).

♦ On Inapproximability of a DAG Partitioning Problem,

With Abbas Mehrabian,

Workshop on Algorithms and Models for the Web Graph (WAW 2012).

Awards	♦ Awarded as Outstanding Teaching Assistant,	2014	
	 ♦ Recipient of UW Special Graduate Scholarship, 	2011	
	 ♦ Awarded as Outstanding Student by university pr 		
		,	
	♦ Recipient of the Special Grant of the National F		
	♦ Gold Medal in Iranian National Olympiad in Inform	matics, 2005	
SERVICE	Cornell University:	Ithaca, New York, United States	
	⋄ Teaching		
	 Fundamental Programming Concepts, 	Summer 2015, 2016, 2017	
	♦ Research Assistant		
	- For David Shmoys	Summer and Fall 2015	
	♦ Teaching Assistant		
	- Analysis of Algorithms	Fall 2017	
	- Advanced Optimization	Spring 2016, Fall 2017	
	- Networks,	Fall 2014	
	 Fundamental Programming Concepts, 	Summer 2014	
	- Introduction to Computing Using Python,	Spring 2014	
	- Software Engineering,	Fall 2013	
	 Object-Oriented Programming and Data Str 	ructures, Summer 2013	
	 Introduction to Analysis of Algorithms, 	Spring 2013, 2015	
	Altera Corporation:	Toronto, Ontario, Canada	
	\diamond Advanced Design Engineer	2012-2013	
	University of Waterloo:	Waterloo, Ontario, Canada	
	\diamond Research Assistant		
	- For Timothy Chan	Summer 2012	
	– For Therese Biedl	Fall 2010 - Spring 2012	
	⋄ Teaching Assistant		
	- Designing Functional Programs,	Fall 2010 and Winter 2011	
	- Algorithms,	Winter 2011, Spring 2011, Fall 2011, Winter 2012	
	- Data Mining,	Fall 2011	
	Sharif University of Technology:	Tehran, Iran	
	⋄ Teaching Assistant		
	- Design and Analysis of Algorithms,	Spring 2009 and Winter 2009	
	 Data Structure and Algorithms, 	Fall 2008	
	Young Scholars Club:	Tehran, Iran	

2007 - 2010

 \diamond Teacher and Commete Member