Alireza Rezaei

Department of Computer Science & Engineering

University of Washington

Seattle, WA 98195, United States

Interests \diamond Design and Analysis of Approximation Algorithms

♦ Theoretical Machine Learning

EDUCATION \diamond Ph.D. Student in Computer Science

Aug. 2014 – May 2019 (expected)

arezaei@cs.washington.edu

Cell Phone: +12067659178

Last Update: Oct. 18, 2016

Department of Computer Science & Engineering

University of Washington

ADVISOR: Shayan Oveis Gharan

Relevant Coursework: Recent Developments in Approximation Algorithms,

 $Entropy\ Optimality,\ Linear\ and\ Semi-Definite\ Programming\ in\ Approximation\ Algorithms,\ Randau and\ Algorithms,\ Algorithms,\ Randau and\ Algori$

domized Algorithms, Polynomial Optimization

♦ B.Sc. Degrees in Computer Engineering & Mathematics Sept. 2009 – June 2014

Department of Computer Engineering, Department of Mathematical Sciences

Sharif University of Technology, Tehran, Iran

GPA: 18.76/20

RELEVANT COURSEWORK: Spectral Graph Theory, Randomized Algorithms and Probabilistic

Methods, Graph theory and its Applications

Publications

♦ Approximation Algorithms for Finding Maximum Induced Expanders

Shayan Oveis Gharan, Alireza Rezaei

To be appear in 28th ACM-SIAM Symposium on Discrete Algorithms (SODA'17)

♦ Monte Carlo Markov Chain Algorithms for Sampling Strongly Rayleigh Distributions and De-

terminantal Point Processes

Nima Anari, Shayan Oveis Gharan, Alireza Rezaei

appeared in the 2016 edition of the Conference on Learning Theory (COLT'16)

 \diamond {0,2}-Degree free spanning forests in graphs

Saieed Akbari, Kenta Ozeki, Alireza Rezaei, Rahmtin Rotabi, Sara Sabour

Appeared in the Journal of Discrete Mathematics, Volume 338, Issue 7, July 2015

Honors and Awards ♦ Faithful Steward Endowed Fellowship , Sept. 2014 – June 2015

♦ Silver Medal in the Iranian National Olympiad in Informatics (INOI), 2008

♦ Ranked 3rd in Computer Engineering class of 2014, Sharif University, Sept. 2013

♦ Ranked 4th in National Entrance Exam for Master of Science in Iran, 2012

TEACHING EXPERIENCE

♦ Teaching Assistant, University of Washington

- Design and Analysis of Algorithms (CSE 521), Prof. Shayan Oveis Gharan Spring 2016
- Randomized Algorithms (CSE 525), Prof. James. R. Lee

Fall 2016

♦ Lecturer at YSC ¹

June 2011 – June 2014

- Teaching Graph Theory and Special Topics such as Linear Algebra in training campus of Iranian National Olympiad in Informatics (INOI), YSC
- Problem Designer of the Iranian National Olympiad in Informatics (INOI) finals, Sept. 2013

♦ Teaching Assistant, Sharif University of Technology

- Design and Analysis of Algorithms

Fall 2012, Spring 2013

- Data Structures and Algorithms

Fall 2012, Fall 2011

- Theory of Languages and Automata

Spring 2012

- Statistical Pattern Recognition

Spring 2013

- Modern Information Retrieval

Fall 2013

Presentations

♦ Monte Carlo Markov Chain Algorithms for Sampling Strongly Rayleigh Distributions and Determinantal Point Processes
 COLT 2016
 June 2016

Monte Carlo Markov Chain Algorithms for Sampling Strongly Rayleigh Distributions and Determinantal Point Processes

Qualifying Exam, University of Washington

Approximation Algorithms for Finding Maximum Induced Expanders

May 2016

Microsoft Research Lab, Redmond

February 2016

♦ Approximation Algorithms for Finding Maximum Induced Expanders

Theory Comings University of Weshington

Theory Seminar, University of Washington

February 2016

SKILLS

- ♦ PROGRAMMING LANGUAGES: C/C++, Pyhton, Racket (LISP/Scheme)
- ♦ Web/DB Technologies: HTML, CSS, Javascript, MySQL.
- ♦ TYPESETTING: TEX, LATEX, Microsoft Word

Refrences

- ♦ Prof. Shayan Oveis Gharan (shayan@cs.washington.edu)
- ♦ Prof. James. R. Lee (jrl@cs.washington.edu)
- ♦ Prof. Saieed Akbari (s_akbari@sharif.edu)

¹Young Scholars Club acts as the sole authority and regulating body for scientific Olympiads in Iran.