Rahmtin Rotabi

Department of Computer Science
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RESEARCH INTERESTS
- ◇ Information and Social Networks
- ◇ Data Analysis and Machine Learning
- ◇ Evolution of Language and Networks
- ◇ Graph Theory and Behavioral Economics

EDUCATION

◇ **Cornell University**. (Aug. 2013 - Present)
PhD. in Computer Science **GPA: 3.95/4**
Courses: The Structure of Information Networks
Natural Language Processing and Social Interaction
Graduate Analysis of Algorithms, Behavioral Economics
Economic Behavior and Internet, Machine Learning
Algorithmic Game Theory and Spectral Graph Theory

◇ **Sharif Univ of Tech**, Tehran, Iran (2009 - 2013)
B.S. in Computer Engineering **GPA: 18.41/20**.
Thesis: Some Upper Bounds for Signed Star Domination Number of Graphs.
Department courses **(GPA 4.2, 19.7/20)**

PUBLICATIONS

◇ **Tracing the Use of Practices through Networks of Collaboration**
a joint work with Cristian Danescu-Niculescu-Mizil, J. Kleinberg, ICWSM, 2017.

◇ **Competition and Selection Among Conventions**
a joint work with Cristian Danescu-Niculescu-Mizil, J. Kleinberg, 26th International World Wide Web Conference, 2017.

◇ **Detecting Strong Ties Using Network Motifs**
a joint work with Krishna Kamath, J. Kleinberg, Aneesh Sharma, 26th International World Wide Web Conference, 2017.

◇ **Cascades: A View from Audience**
a joint work with Krishna Kamath, J. Kleinberg, Aneesh Sharma, 26th International World Wide Web Conference, 2017.

◇ **The Status Gradient of Trends in Social Media**
a joint work with J. Kleinberg, ICWSM, 2016.

◇ **It is not Only About Grievances: Emotional Dynamics in Social Media During the Brazilian Protests**
a joint work with J. M. R. Costa, E. Murnane, T. Choudhury, International AAAI Conference on Web and Social Media, 2015.

◇ **Using Ranking Support Vector Machines for Group Recommendations: Restaurant Recommendations on Yelp Data.**
a joint work with H.F. Tan, H. G. T. Nguyen, New York Academy of Sciences 9th Annual Machine Learning Symposium, 2015.

◇ **Graph Factorization Using Odd Degree Vertices**
a joint work with S. Akbari, K. Ozeki, A. Rezaei, S. Sabour, Discrete Mathematics.

◇ **Some Upper Bounds for Signed Star Domination Number of Graphs**
a joint work with S. Akbari, A. Norouzi-Fard, A. Rezaei, S. Sabour, Discrete Applied Mathematics.

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RESEARCH EXPERIENCE	◇ **Twitter Research Intern on the Recommendations team** Summer 2016.

RESEARCH
EXPERIENCE

◇ **Twitter Research Intern on the Recommendations team**   Summer 2016.
   · Working on the interplay of properties of cascades and the audience of them.

◇ **Twitter Research Intern on the Recommendations team**   Summer 2015.
   · Data science role working on methods to find strong ties in the Twitter network.

◇ **Research Assistant** at Cornell University   Jan. 2014 – Current
Working under the supervision of Jon Kleinberg. In Fall 2014 I have switched from Game Theory
and Economics to Data Analysis on Information/Social Networks and Machine Learning.

◇ **Graph Theory Group**   Mar. 2010 – June 2013
School of Mathematics, IPM[1], Tehran, Iran.
   · *Research Assistant - Supervisor:* Dr. Saieed Akbari, Studies and Research focused on "Graph
     labeling" and "Graph Factorization".

PROFESSIONAL
EXPERIENCE

◇ **Google Intern in People's (MTV) / Graph-mining (NYC) team**   Summer 2017.
   · Joint position for implementing faster graph-mining libraries for the people's recommendation
     team.

◇ **Google Intern in the Strategic Technologies group**   Summer 2014.
   · Data science role working on methods to improve Google Maps and Google Now.

◇ **Member of INOI**[2] **Scientific Committee**   June 2009 – Present.
   · *Organizing and Technical Committee member, Committee Director:* Dr. M. Ghodsi
   · *Developer and Technical manager for INOI web based and local-site training
     systems and servers,*

◇ **Member of Student Scientific Chapter (SSC),**   Jan. 2012 – Jan. 2013.
Computer Engineering Department, Sharif Univ of Tech.
   · Elected Members are responsible for directing the department extra-curriculum activities.

HONORS AND
AWARDS

◇ Recognized and awarded as **Outstanding Student** by university president, 2009 and 2012.

◇ **Ranked 3ʳᵈ** in the National Scientific Olympiads in Computer Engineering, 2012.

◇ National Entrance Exam for Master of Science, 2011.
   · **Ranked 4ᵗʰ** in Algorithms And Computation.
   · **Ranked 4ᵗʰ** in Software Engineering.
   · **Ranked 6ᵗʰ** in Artificial Intelligence.

◇ **Ranked 6ᵗʰ** in the Greater New York Region, NY, 2014.

◇ **Ranked 3ʳᵈ** in the Asia Regional ACM-ICPC Contest, Tehran, Iran, 2012.

◇ **Ranked 6ᵗʰ** in the Asia Regional ACM-ICPC Contest, Tehran, Iran, 2011.

◇ **Ranked 3ʳᵈ** in the Asia Regional ACM-ICPC Contest, Tehran, Iran, 2010.

◇ Recipient of the grant for undergraduate studies from the Iranian National Elites Foundation, for
outstanding academic success, 2009 - present.

◇ **Gold Medal** in the Iranian National Olympiad in Informatics, 2008.

TEACHING
EXPERIENCE

◇ **Lecturer at YSC**[3]   June 2009 – Aug. 2013.
   · Teaching C++ Programing and Special Topics in Computer Science such as Algorithms and
     Data Structures, Graph Theory and Theory of Languages and Automata in training campus of
     INOI, YSC.

◇ **Teaching Assistant**

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[1] Institute for Studies in Theoretical Physics and Mathematics
[2] Iran National Olympiad in Informatics
[3] Young Scholars Club acts as the sole authority and regulating body for scientific Olympiads in Iran.

· *Cornell University:*
CS6850, The Structure of Information Networks, Spring 2017.
CS2110, Object-Oriented Programming and Data Structures, Fall 2013.

· *Sharif University:* Operating Systems, Computer Networks, Programming Languages, Signals and Systems, Designing Algorithms (3 semester), Logic Circuits, Theory of Languages and Automata, Structures and Algorithms (3 semester), Fundamentals of Programming.

◇ **Teacher of Special Topics in Mathematics**   June 2008 - June 2013

· Teaching high school students Algorithms, Graph Theory and Problem Solving Strategies who wanted to prepare for Olympiad in Informatics.

SKILLS ◇ Programming Languages: C/C++, Java, Python, Bash scripting, gnuplot, Scala, Scalding, Prolog, Racket (LISP) Flume(Google Map-Reduce Library).

◇ Misc.: HTML, TEX, LATEX, Vim, Microsoft Office, Altera Quartus, ModelSim, Wireshark.

REFERENCES ◇

- Jon Kleinberg
  Tisch University Professor
  Depratment of Computer Science
  Cornell University
  Email: kleinber@cs.cornell.edu

- Cristian Danescu-Niculescu-Mizil
  Assistant Professor
  Depratment of Information Science
  Cornell University
  Email: cristian@cs.cornell.edu