

Sina Rashidian

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RESEARCH INTERESTS

- ◇ Big data analysis
- ◇ Machine Learning
- ◇ Data Science

EDUCATION

- ◇ **Stony Brook University**, New York, USA (2015 - present)
Ph.D. candidate in [Computer Science](#). Supervisor: [Prof. Fusheng Wang](#)
GPA: 3.83 / 4
Selected Courses: Analysis of Algorithms, Theory of Database Systems, Asynchronous Systems, Machine Learning, Artificial Intelligence.
- ◇ **Sharif University of Technology**, Tehran, Iran (2010 - 2015)
B.S. in [Computer Engineering](#), Software Major. Supervisor: [Prof. Jafar Habibi](#)
Thesis: Influence of Genetic Algorithm in Detection and Comparison of Social Networks
GPA: 17.17 / 20

AWARDS AND HONORS

- ◇ **Student Travel Grant Recipient:** SigSpatial 17.
- ◇ Ranked **15th** in the [ACM ICPC Greater New York Region](#), NY, US (2015).
- ◇ Special CS Department Chair Fellowship for first year graduate students (2015).
- ◇ Ranked **44th** in Iranian National University Master Entrance exam among over 10,000 participants (June 2015).
- ◇ Admission to **Sharif University of Technology**, the university of choice for the top ranking students attending the National University Entrance Exam (2010).
- ◇ Ranked **219th** in Iranian National University Bachelor Entrance exam among over 400,000 participants (June 2010).

PUBLICATIONS

- ◇ **Effective Scalable and Integrative Geocoding for Massive Address Datasets**
Sina Rashidian, Xinyu Dong, Amogh Avadhani, Prachi Poddar and Fusheng Wang. In *Proceedings of the 25th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems. November 7 - 10, 2017, Redondo Beach, California, USA*.
- ◇ **Noise-Tolerant Model Selection and Parameter Estimation for Complex Networks**
Sadegh Aliakbary, Sadegh Motallebi, Sina Rashidian, Jafar Habibi, and Ali Movaghar. In *Physica A: Statistical Mechanics and its Applications Volume 427, 1 June 2015, Pages 100112*.
- ◇ **Distance Metric Learning for Complex Networks: Towards Size-Independent Comparison of Network Structures**
Sadegh Aliakbary, Sadegh Motallebi, Sina Rashidian, Jafar Habibi, and Ali Movaghar. In *Chaos: An Interdisciplinary Journal of Nonlinear Science Volume 25, Number 2, 2015*.

RESEARCH EXPERIENCE

- ◇ **Research Assistant** at [Data Management and Biomedical Data Analytics Lab](#) (August 2016 - present).

- **Physicians-Patients Network.** Study relationships in a physician-patient social network which we defined ourselves. Purpose of this research is to investigate potential patterns and find most influential physicians and providers in the network. The study is in progress.
 - **EaserGeocoder.** By introducing a novel geocoding system for converting addresses to latitude and longitude we overcome lack of offline working geocoder which is robust to noise and could handle high volume of data in academic projects. In summary, we gathered multiple free sources and used machine learning algorithms to achieve high precision and accuracy based on an integrative approach. This research results in a conference paper, and an open-source application to be published.
 - ◇ **Undergrad Researcher** at Software Engineering Lab (July 2013 - June 2015).
 - We proposed a novel method for comparing social network graphs. I was involved in designing and implementing the algorithms. This research results in two journal papers.
 - ◇ **Scholar** at High Performance Computing group at Institute for Research in Fundamental Sciences (IPM), June 2012 - August 2012.
 - Learned and practiced parallel programming and experienced coding in CUDA.
- WORK EXPERIENCE
- ◇ **Software Developer Intern** at Opensource Information and Communications Technology Co.Ltd supervised by Dr. Seyed Ali Alavian (Jan 2015 - April 2015).
 - I was working in Multi-Technology Network Management project as a software developer. My main task was implementing desired features for connecting to underlying network manager application with CORBA. This project was based on Java.
- TEACHING EXPERIENCE
- ◇ **Teaching Assistant**, In Sharif University of Technology for the following courses:
 - Programming Languages, Design and Implementation: Dr. Mohammad Izadi, Fall 2014.
 - Operating Systems: Dr. Hossein Asadi, Spring 2014.
 - Operating Systems: Dr. Hamid Beygi, Spring 2014.
 - Computer Simulation: Mohammad Hossein Zangooei, Spring 2014 (Head-TA).
 - Digital System Design: Dr. Maziar Goudarzi, Fall 2013.
 - Computer Architecture: Dr. Maziar Goudarzi, Spring 2013.
 - Computer Structure and Language: Dr. Hossein Asadi, Fall 2012, Spring 2012.
 - Introduction to Programming: Fatemeh Zamani, Spring 2012.
 - ◇ **Teaching Assistant**, In Stony Brook University, for the following courses:
 - Computer Science I (Java Programming): Dr. Kevin McDonnell, Fall 2015.
 - Computer Science I (Java Programming): Dr. Michael S. Tashbook, Spring 2016.
- SKILLS
- ◇ Programming Languages: Java, Python, C++, MATLAB, SWIProlog, Lisp(Racket), Haskell, Verilog, Intel 8086 assembly language, MIPS assembly language.
 - ◇ DB Technologies: MS SQL Server, db2, Hadoop.
- ACTIVITIES
- ◇ Reviewer: SigSpatial 17.
 - ◇ Presenter in Data Management Reading Group (2016 - present).
 - ◇ Member of Scientific Committee of Java Challenge, Tehran, Iran (2012).
 - ◇ Technical Staff of Asia Regional ACM-ICPC Contest, Tehran, Iran (2012).