

Tara Safavi

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Education

PhD in Computer Science, *University of Michigan*, Ann Arbor 2017–

GPA: 4.0/4.0. Advised by Danai Koutra.

BS in Computer Science, *University of Michigan*, Ann Arbor 2013–2017

GPA: 3.98/4.0. Graduated with Highest Distinction.

Awards and Honors

NSF Graduate Research Fellowship 2018–2021

Best paper nominee, IEEE ICDM 2017 Nov 2017

Rackham Dean's and Named PhD fellowship 2017–2018

Full first-year PhD fellowship from the University of Michigan.

Google Women Techmakers Scholarship April 2017

Formerly known as the Google Anita Borg scholarship.

Awarded to 20 women nationwide for contributions to the community of women in technology.

University of Michigan Marian Sarah Parker Prize March 2017

Awarded to an outstanding woman undergraduate in the College of Engineering.

University of Michigan Outstanding Research Award March 2017

Awarded to a computer science undergraduate for research with a faculty member.

Stamps Leadership Scholarship 2013–2017

National scholarship administered by the Stamps Family Charitable Foundation.

Four-year funding & stipend awarded to 18 incoming University of Michigan undergraduates.

Conference travel awards

ACM SIGKDD (2016, 2018), IEEE ICDM (2017), Microsoft Conference Scholarship (2016)

Publications

Conference

3. Mark Heimann, Haoming Shen, [Tara Safavi](#), Danai Koutra. *REGAL: Representation Learning-based Graph Alignment*. ACM International Conference on Information and Knowledge Management (**CIKM'18**), October 2018.
2. [Tara Safavi](#), Maryam Davoodi, Danai Koutra. *Career Transitions and Trajectories: A Case Study in Computing*. ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (**KDD'18**), August 2018.
1. [Tara Safavi](#), Chandra Sripada, Danai Koutra. *Scalable Hashing-Based Network Discovery*. IEEE International Conference on Data Mining (**ICDM'17**), November 2017.

Nominated for best paper

Book chapters and journals

4. Danai Koutra, [Tara Safavi](#), Yike Liu, Abhilash Dighe. "Network Summarization", *Social Media Analytics: Advances and Applications*, CRC Press (in press), 2018.
3. [Tara Safavi](#), Chandra Sripada, Danai Koutra. *Fast Network Discovery on Sequence Data via Time-Aware Hashing*. Knowledge and Information Systems (**KAIS**), 2018.

Invited from ICDM 2017

2. Yike Liu*, Tara Safavi*, Abhilash Dighe, Danai Koutra. *Graph Summarization Methods and Applications: A Survey*. ACM Computing Surveys (**CSUR**), June 2018 (* equal contribution)
1. Yike Liu, Tara Safavi, Neil Shah, Danai Koutra. *Reducing Large Graphs to Small Supergraphs: A Unified Approach*. Social Network Analysis and Mining Journal (**SNAM**), January 2018

Other

1. Tara Safavi. *Scalable Inference of Networks from Time Series Data*. University of Michigan **honors undergraduate thesis**, April 2017.
Awarded High Honors

Industry

- Intern**, *Google*, Sunnyvale, CA *May–Aug 2017*
Machine learning to understand and optimize Google’s global-scale network infrastructure. Work integrated into production systems. One patent pending.
- Intern**, *Microsoft*, Redmond, WA *May–Aug 2016*
Anomaly detection for the Azure HDInsight Hadoop and Spark services.

Teaching

- EECS 280**, *Programming and Introductory Data Structures* *Jan–April 2017*
Undergraduate TA.
- EECS 490**, *Programming Languages* *Sept–Dec 2016*
Undergraduate TA. First offering of course.
- EECS 183**, *Elementary Programming Concepts* *Jan–Dec 2015*
Undergraduate TA.

Outreach

- Explore Graduate Studies Symposium**, Ann Arbor, MI *Sept 2017, 2018*
Student panel and one-on-one writing feedback for prospective CSE graduate students.
- Ensemble of CSE Ladies (ECSEL)**, Ann Arbor, MI *Jan–July 2018*
Board member of ECSEL, Michigan’s computer science graduate women group.
- Seven Mile Coding**, Detroit, MI *Oct 2017–Jan 2018*
Board member of the U-M Seven Mile Coding initiative in Brightmoor, Detroit.
- Girls Who Code**, Ann Arbor, MI *Jan 2016–April 2017*
Co-founder of the U-M Women in Science and Engineering Girls Who Code club.

Invited Talks

- Scalable Inference of Networks from Time Series Data**, Sunnyvale, CA *June 2017*
Lightning talk in the NetSoft group.
- Scalable Inference of Networks from Time Series Data**, Ann Arbor, MI *April 2017*
Guest lecture for Discrete Mathematics (EECS 203).
- Scalable Inference of Networks from Time Series Data**, Ann Arbor, MI *April 2017*
Honors undergraduate thesis defense.

Invited Workshops

- CRA-W Grad Cohort**, San Francisco, CA. *April 2018*
- KDD Broadening Participation in Data Mining**, San Francisco, CA. *August 2016*