

Tara Safavi

tsafavi@umich.edu / +1-630-809-5732 / tsafavi.github.io

Education

PhD, Artificial Intelligence, *University of Michigan Ann Arbor* 2017–2022

- Focus areas: NLP, graphs, knowledge representation
- National Science Foundation Graduate Research Fellow
- Adviser: Danai Koutra

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

Industry experience

Allen Institute for Artificial Intelligence, *Research Intern* Aug–Nov 2021

- Research in fusing language models and knowledge graph embeddings
- Mentors: Tom Hope, Doug Downey, Hanna Hajishirzi

Microsoft Research, *Research Intern* May–Aug 2021

- Research in graph learning frameworks for textual and relational data
- Mentors: Tobias Schnabel, Jennifer Neville

Bloomberg, *Research Intern* Sep–Dec 2019

- Research in calibrating knowledge graph embeddings
- One paper at EMNLP 2020
- Mentor: Edgar Meij

Microsoft Research, *Research Intern* May–Aug 2019

- Research in personalized knowledge representation
- One paper at WSDM 2020 + one patent pending
- Mentors: Adam Fourney, Robert Sim, Marcin Juraszek

Google, *Engineering Intern* May–Aug 2017

- Machine learning engineering for network anomaly detection
- One patent pending
- Mentor: Xiang Wang

Technical skills

Programming languages: Python, C++

ML frameworks: PyTorch, PyTorch Lightning, transformers, Deep Graph Library, Ax

Platforms: Amazon EC2/AWS, Microsoft Azure Machine Learning

Selected publications

- [4] [T. Safavi](#), D. Koutra. *Relational World Knowledge Representation in Contextual Language Models: A Review*. EMNLP 2021.
- [3] [T. Safavi](#), J. Zhu, D. Koutra. *NegatER: Unsupervised Discovery of Negatives in Common-sense Knowledge Bases*. EMNLP 2021.
- [2] [T. Safavi](#), D. Koutra. *CoDEX: A Comprehensive Knowledge Graph Completion Benchmark*. EMNLP 2021.
- [1] [T. Safavi](#), D. Koutra, E. Meij. *Evaluating the Calibration of Knowledge Graph Embeddings for Trustworthy Link Prediction*. EMNLP 2021.