

YIN LIN

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<https://niceirene.github.io/>

EDUCATION

University of Michigan, Ann Arbor

Ph.D. student in Computer Science and Engineering

Advisor: [Prof. H. V. Jagadish](#)

Ann Arbor, MI

Sept. 2019 – present

Shanghai Jiao Tong University

B.S. in Computer Science

Shanghai, China

Sept. 2015 – June 2019

RESEARCH INTEREST

Responsible data management; efficient data wrangling and lineage

PUBLICATIONS

Conferences

- *Mitigating Subgroup Unfairness in Machine Learning Classifiers: A Data-Driven Approach*
[Yin Lin](#), Samika Gupta, H. V. Jagadish
To appear in ICDE 2024.
- *SMARTFEAT: Efficient Feature Construction through Feature-Level Foundation Model Interactions*
[Yin Lin](#), Bolin Ding, H. V. Jagadish, Jingren Zhou
CIDR 2024.
- *Predicate Pushdown for Data Science Pipelines*
Cong Yan, [Yin Lin](#), Yeye He
SIGMOD - Proceedings of the ACM on Management of Data 1 (2), 1-28, 2023 (best paper award)
- *On Detecting Cherry-picked Generalizations*
[Yin Lin](#), Brit Youngman, Yuval Moskovitch, H. V. Jagadish, Tova Milo
PVLDB - Proceedings of the VLDB Endowment, 15(1): 59-71, 2022.
- *Identifying Insufficient Data Coverage in Databases with Multiple Relations*
[Yin Lin](#), Yifan Guan, Abolfazl Asudeh, H. V. Jagadish
PVLDB - Proceedings of the VLDB Endowment, 13(11): 2229-2242, 2020.
- *R²-Tree: An Efficient Indexing Scheme for Data Center Networks*
[Yin Lin](#), Xinyi Chen, Xiaofeng Gao, Bin Yao, Guihai Chen
DEXA - International Conference on Database and Expert Systems Applications, 2018.

Workshops

- *OREO: Detection of Cherry-picked Generalizations*
[Yin Lin](#), Brit Youngman, Yuval Moskovitch, H. V. Jagadish, Tova Milo
PVLDB - Proceedings of the VLDB Endowment, 15(12): 3570 - 3573, 2022.
- *On Structural vs. Proximity-based Temporal Node Embeddings*
Puja Trivedi*, Alican Büyükçakır*, [Yin Lin](#), Yinlong Qian, Di Jin and Danai Koutra
KDD MLG - International Workshop on Mining and Learning with Graphs, 2020.
- *MithraDetective: A System for Cherry-picked Trendlines Detection*
Yoko Nagafuchi, [Yin Lin](#), Kaushal Mamgain, Abolfazl Asudeh, H. V. Jagadish, You (Will) Wu, Cong Yu
CoRR, 2020, arXiv/2010.08807.

Journal Articles

- *Representation Bias in Data: A Survey on Identification and Resolution Techniques*
Nima Shahbazi, [Yin Lin](#), Abolfazl Asudeh, H. V. Jagadish
ACM Computing Surveys.

- *A Survey on Techniques for Identifying and Resolving Representation Bias in Data*
Nima Shahbazi, [Yin Lin](#), Abolfazl Asudeh, H. V. Jagadish
CoRR, 2022, arXiv/2203.11852.

SELECTED EXPERIENCE

Alibaba Group, Bellevue,
Research Intern, in Data Analytics and Intelligence Lab (DAIL) (Mentor: [Bolin Ding](#)) May 2023 – Aug. 2023

Microsoft Research, Redmond,
Research Intern in Data Management, Exploration and Mining (DMX) (Mentor: [Cong Yan](#)) May 2022 – Aug. 2022

University of Waterloo,
Research Intern in Software Architecture Group (Advisor: [Prof. Meiyappan Nagappan](#)) July 2018 – Oct. 2018

TEACHING EXPERIENCES

[CS499](#), Mathematical Foundations of Computer Science, SJTU Spring 2018
Teaching Assistant. *Instructor:* [Prof. Dominik Scheder](#)

MENTORSHIP

Yoko Nagafuchi, Senior, University of Michigan
Mike Wang, Senior, University of British Columbia

HONORS & AWARDS

SIGMOD best paper award	2023
Rackham Dean's and Named PhD fellowship <i>Full first-year PhD fellowship from the University of Michigan</i>	2019
Outstanding Undergraduate in Shanghai Jiao Tong University	2019
Academic Scholarship <i>Awarded to top 10% undergraduates for academic performance at SJTU</i>	2016 – 2018
Meritorious Winner , Mathematical Contest in Modeling <i>twice, top 8% worldwide</i>	2017, 2018
SCSK Scholarship <i>Awarded to 7 computer science undergraduates at SJTU for the academic performance</i>	2018
Chun Tsung Scholar <i>Awarded to 50 undergraduates at SJTU, funded by Nobel Prize owner Tsung-Dao Lee</i>	2016

PROGRAM COMMITTEES

BigData: IEEE International Conference on Big Data, 2024
AIBSD: AAAI Workshop on Artificial Intelligence with Biased or Scarce Data, 2024
CIKM: ACM International Conference on Information and Knowledge Management, 2023, 2024
ICDE: IEEE International Conference on Data Engineering, 2024 (external)