

Ting-Wei Li

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Education

University of Illinois Urbana-Champaign

PH.D. COMPUTER SCIENCE

- Advised by Prof. Hanghang Tong
- Expected graduation date: 04/2029

Champaign, IL, USA

Aug 2024 – present

University of Michigan, Ann Arbor

M.SC. ELECTRICAL AND COMPUTER ENGINEERING

Ann Arbor, MI, USA

Aug 2021 – Apr 2023

National Taiwan University

B.S.ENG ELECTRICAL ENGINEERING

Taipei, Taiwan

Sep 2016 – Jun 2020

Research Interests

I am generally interested in **data-centric & trustworthy machine learning**. Presently, I focus on data selection, data attribution (especially for LLMs), LLM-based recommendation systems and multi-agent systems.

Publications

- **Ting-Wei Li**, Ruizhong Qiu, Hanghang Tong. *Model-Free Graph Data Selection under Distribution Shift*. In Conference on Neural Information Processing Systems (**NeurIPS**), 2025.
- Junwei Deng*, **Ting-Wei Li***, Shiyuan Zhang, Shixuan Liu, Yijun Pan, Hao Huang, Xinhe Wang, Pingbang Hu, Xingjian Zhang, Jiaqi Ma. *dattri: A Library for Efficient Data Attribution*. In Conference on Neural Information Processing Systems (**NeurIPS Datasets and Benchmarks Track**), 2024 (**Spotlight**).
- **Ting-Wei Li**, Qiaozhu Mei, Jiaqi Ma. *A Metadata-Driven Approach to Understand Graph Neural Networks*. In Conference on Neural Information Processing Systems (**NeurIPS**), 2023.
- Jiaqi Ma, Xingjian Zhang, Hezheng Fan, Jin Huang, Tianyue Li, **Ting-Wei Li**, Yiwen Tu, Chenshu Zhu, Qiaozhu Mei. *Graph Learning Indexer: A Contributor-Friendly Platform for Better Curation of Graph Learning Benchmarks*. In Learning On Graphs Conference (**LoG**), 2022.
- Ya-Wen Teng, Hsi-Wen Chen, De-Nian Yang, Yvonne-Anne Pignolet, **Ting-Wei Li**, Lydia Chen. *On Influencing the Influential: Disparity Seeding*. In ACM Conference on Information and Knowledge Management (**CIKM**), 2021.

Preprints

- Junwei Deng*, Yuzheng Hu*, Pingbang Hu*, **Ting-Wei Li***, Shixuan Liu* et al. *A Survey of Data Attribution: Methods, Applications, and Evaluation in the Era of Generative AI*. HAL 2025.
- Ruizhong Qiu*, **Ting-Wei Li***, Gaotang Li, Hanghang Tong. *Graph Homophily Booster: Rethinking the Role of Discrete Features on Heterophilic Graphs*. arXiv 2025.
- Junwei Deng*, **Ting-Wei Li***, Shichang Zhang, Jiaqi Ma. *Efficient Ensembles Improve Training Data Attribution*. arXiv 2024.

Experience

Amazon

APPLIED SCIENTIST INTERN

- Designing an efficient multitask learning framework for recommendation system in large-scale video platform
- Mentors: Cody Severinski, Changhe Yuan

Seattle, Washington

May 2025 - Aug 2025

AT&T

CHIEF DATA OFFICE INTERN (RESEARCH INTERN)

- Developing interpretable graph-based models for large-scale customer behavior analysis
- Mentors: Qiong Wu, Zhengyi Zhou, Eric Zavesky

Bedminster, New Jersey

Sep 2023 - Nov 2023

University of Michigan

RESEARCH ASSISTANT

- Proposing a metadata-driven approach and a novel theoretical analysis to understand GNNs
- Mentors: Jiaqi Ma, Qiaozhu Mei

Ann Arbor, Michigan

Aug 2022 - May 2023

Skills

Programming Python (most frequent), C++, R, Bash

DL Frameworks PyTorch (most frequent), Pytorch-Geometric, DGL, Hugging Face

Honors & Awards

2023 **Scholar Award**, Conference on Neural Information Processing Systems

2023 **Graduate Student Research Assistant Tuition Waiver**, University of Michigan