Ting-Wei **Li**

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Education

University of Illinois Urbana-Champaign *Champaign, IL, USA*
Ph.D. Computer Science *Aug 2024 – present*
- Advised by **Prof. Hanghang Tong** @ iDEA-iSAIL Joint Laboratory
- Expected graduation: 12/2028

University of Michigan, Ann Arbor *Ann Arbor, MI, USA*
M.Sc. Electrical and Computer Engineering *Aug 2021 – Apr 2023*

National Taiwan University *Taipei, Taiwan*
B.S.Eng Electrical Engineering *Sep 2016 - Jun 2020*

Research Interests

I am interested in **data-centric machine learning and LLM-based agentic systems**. I worked on data-centric ML and training data attribution. Presently, I focus on advancing the methodologies for data selection, data attribution and data generation, with applications to LLM-based agents.

Selected Publications

- Junwei Deng*, **Ting-Wei Li***, Shichang Zhang, Jiaqi Ma. *Efficient Ensembles Improve Training Data Attribution.* In Transactions on Machine Learning Research (**TMLR**), 2026.
- Ruizhong Qiu*, **Ting-Wei Li***, Gaotang Li, Hanghang Tong. *Graph Homophily Booster: Rethinking the Role of Discrete Features on Heterophilic Graphs.* In International Conference on Learning Representations (**ICLR**), 2026.
- Hyunsik Yoo, **Ting-Wei Li**, SeongKu Kang, Zhining Liu, Charlie Xu, Qilin Qi, Hanghang Tong. *Continual Low-Rank Adapters for LLM-based Generative Recommender Systems.* In International Conference on Learning Representations (**ICLR**), 2026.
- Xuying Ning, Dongqi Fu, Tianxin Wei, Mengting Ai, Jiaru Zou, **Ting-Wei Li**, Hanghang Tong, Yada Zhu, Hendrik Hamann, Jingrui He. *MC-Search: Benchmarking Multimodal Agentic RAG with Structured Reasoning Chains.* In International Conference on Learning Representations (**ICLR**), 2026 (**Oral**).
- **Ting-Wei Li**, Ruizhong Qiu, Hanghang Tong. *Graph Data Selection for Domain Adaptation: A Model-Free Approach.* 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.

Preprints

- **Ting-Wei Li**, Sirui Chen et al. *EvoSelect: Data-Efficient LLM Evolution for Targeted Task Adaptation.* Arxiv 2026.
- Tianxin Wei*, **Ting-Wei Li***, Zhining Liu* et al. *Agentic Reasoning for Large Language Models.* Arxiv 2026.
- Ruizhong Qiu*, **Ting-Wei Li***, Gaotang Li* et al. *Efficient Parallel Inference Scaling for Safety Assurance.* Arxiv 2025.
- 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 (in submission to JAIR).

Professional Experience

Amazon *Seattle, Washington*
Applied Scientist Intern *May 2025 - Aug 2025*
- Designing an efficient multitask learning framework for recommendation system in large-scale video platform
- Mentors: Cody Severinski, Changhe Yuan

AT&T *Bedminster, New Jersey*
Chief Data Office Intern (Research Intern) *Sep 2023 - Nov 2023*
- Developing interpretable graph-based models for large-scale customer behavior analysis
- Mentors: Qiong Wu, Zhengyi Zhou, Eric Zavesky

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