Ting-Wei Li

✉ twli@illinois.edu | 🏠 tingwl0122.github.io | 🐙 tingwl0122

Education

University of Illinois Urbana-Champaign *Champaign, IL, USA*
PH.D. COMPUTER SCIENCE *Aug 2024 – present*

- Advised by Prof. Hanghang Tong
- Expected graduation date: 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 graph learning and training data attribution projects. Presently, I focus on advancing the methodologies for data selection, data attribution and data generation, with applications to LLM-based agents.

Publications

- **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.
- 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

- 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.* arXiv 2025 (in submission to ICLR).
- Xuying Ning, Dongqi Fu, Tianxin Wei, Mengting Ai, Jiaru Zou, **Ting-Wei Li**, Jingrui He. *MC-Search: Benchmarking Multimodal Agentic RAG with Structured Reasoning Chains.* arXiv 2025 (in submission to ICLR).
- 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).
- Ruizhong Qiu[*], **Ting-Wei Li**[*], Gaotang Li, Hanghang Tong. *Graph Homophily Booster: Rethinking the Role of Discrete Features on Heterophilic Graphs.* arXiv 2025 (in submission to ICLR).
- Junwei Deng[*], **Ting-Wei Li**[*], Shichang Zhang, Jiaqi Ma. *Efficient Ensembles Improve Training Data Attribution.* arXiv 2024 (in submission to TMLR).

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