

Ting-Wei Li

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Education

University of Illinois Urbana-Champaign

PH.D. COMPUTER SCIENCE

- Advised by Prof. Hanghang Tong

Champaign, IL, USA

Aug 2024 – present

University of Michigan, Ann Arbor

M.SC. ELECTRICAL AND COMPUTER ENGINEERING

- Overall GPA: 4.0/4.0

Ann Arbor, MI, USA

Sep 2021 – Apr 2023

National Taiwan University

B.S. ENG ELECTRICAL ENGINEERING

- Overall GPA: 3.91/4.3

Taipei, Taiwan

Sep 2016 – Jun 2020

Research Interests

I am broadly interested in graph machine learning and trustworthy machine learning. Presently, I focus on training data attribution (for general ML and graph problems), data-driven analysis on graphs and knowledge-enhanced LLMs.

Publications

- “A Metadata-Driven Approach to Understand Graph Neural Networks”. **Ting Wei Li**, Qiaozhu Mei, Jiaqi Ma. *In Conference on Neural Information Processing Systems (NeurIPS)*, 2023.
- “Graph Learning Indexer: A Contributor-Friendly Platform for Better Curation of Graph Learning Benchmarks”. Jiaqi Ma, Xingjian Zhang, Hezheng Fan, Jin Huang, Tianyue Li, **Ting Wei Li**, Yiwen Tu, Chenshu Zhu, Qiaozhu Mei. *In Learning On Graphs Conference (LoG)*, 2022.
- “On Influencing the Influential: Disparity Seeding”. Ya-Wen Teng, Hsi-Wen Chen, De-Nian Yang, Yvonne-Anne Pignolet, **Ting Wei Li**, Lydia Chen. *In ACM Conference on Information and Knowledge Management (CIKM)*, 2021.

Research Experience

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

September 2023 - November 2023

University of Michigan

GRADUATE STUDENT RESEARCH ASSISTANT

- Transformer-based model for citation recommendation
- Mentors: Armin Sarabi, Mingyan Liu

Ann Arbor, Michigan

January 2023 - April 2023

University of Michigan

RESEARCH ASSISTANT

- Designing automatic scripts for graph property computation and random graph dataset generator wrapper
- Metadata-driven approach and theoretical analysis to understand GNNs
- Mentors: Jiaqi Ma, Qiaozhu Mei

Ann Arbor, Michigan

June 2022 - April 2023

University of Michigan

GRADUATE STUDENT RESEARCH ASSISTANT

- Analyzing information diffusion model with heterogenous cascades and delay adoption on social networks
- Mentor: Mingyan Liu

Ann Arbor, Michigan

May 2022 - September 2022

Institute of Information Science, Academia Sinica

RESEARCH ASSISTANT

- Co-designing GNN-based model for a minority-aware seeding scheme on social networks
- Mentor: De-Nian Yang

Taipei, Taiwan

July 2020 - July 2021

Honors & Awards

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

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

Skills

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

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