

RESEARCH INTEREST

Machine Learning

- *Explainable Machine Learning, Trustworthy Machine Learning, Graph Learning, Statistical Learning Theory*

Theoretical Computer Science

- *Fast Graph Algorithm, Approximation Algorithm, Hardness of Approximation, Learning Theory*

EDUCATION

University of Illinois Urbana-Champaign

Illinois

- *Ph.D. Student in Information Science, School of Information Science*
 - **Advisor:** Jiaqi Ma
 - **Minor:** Statistics, College of Liberal Arts & Sciences

Aug. 2023–Present

University of Michigan

Michigan

- *B.Sc. in Computer Science with **Summa Cum Laude**, College of Engineering*
 - **Minor:** Mathematics, College of Literature, Science, and the Arts

Aug. 2021–May 2023

National Yang Ming Chiao Tung University

Hsinchu, Taiwan

- *Visiting Scholar*

Jan. 2020–Jul. 2020

Shanghai Jiao Tong University

Shanghai, China

- *B.Eng. in Electrical and Computer Engineering, UM-SJTU Joint Institute*
 - **Minor:** Computer Science, UM-SJTU Joint Institute

Aug. 2019–Aug. 2023

RESEARCH AND INDUSTRY EXPERIENCE

Sugiyama Laboratory, National Institute of Informatics

Tokyo, Japan

- *Research Intern*
 - **Advisor:** Mahito Sugiyama

May 2024–Aug. 2024

Theory of Computation Laboratory, University of Michigan

Michigan

- *Undergraduate Researcher*
 - **Advisor:** Thatchaphol Saranurak

Mar. 2022–Dec. 2023

SURE Program, University of Michigan

Michigan

- *Undergraduate Researcher*
 - **Advisor:** Wei Hu

May 2022–Apr. 2023

FORESEER Research Group, University of Michigan

Michigan

- *Undergraduate Research Assistant*
 - **Advisor:** Jiaqi Ma

Dec. 2021–Jan. 2023

Chief Noob

Shanghai, China

- *Backend Developer*

Oct. 2020–June 2021




PEER-REVIEWED CONFERENCE PUBLICATIONS

(* denotes equal contribution)

- [C1] Xinhe Wang, **Pingbang Hu**, Junwei Deng, Jiaqi Ma, “Adversarial Attacks on Data Attribution”. In *Proceedings of the 13th International Conference on Learning Representations (ICLR 2025)* 
- [C2] Yuzheng Hu, **Pingbang Hu**, Han Zhao, Jiaqi Ma, “Most Influential Subset Selection: Challenges, Promises, and Beyond”. In *Proceedings of the 38th Advances in Neural Information Processing Systems (NeurIPS 2024)* (25.8% accepted rate) 
- [C3] Junwei Deng*, Ting-Wei Li*, Shiyuan Zhang, Yijun Pan, Hao Huang, Xinhe Wang, **Pingbang Hu**, Xingjian Zhang, Jiaqi Ma, “**dattri**: A Library for Efficient Data Attribution”. In *Proceedings of the 38th Advances in Neural Information Processing Systems Datasets and Benchmarks Track (NeurIPS 2024)* (**Spotlight**) 

PRE-PRINTS AND TECHNICAL REPORTS

(* denotes equal contribution)

- [P1] **Pingbang Hu**, Mahito Sugiyama, “Pseudo-Non-Linear Data Augmentation via Energy Minimization”. *In submission* 
- [P2] Yiwen Tu*, **Pingbang Hu***, Jiaqi Ma, “Towards Reliable Empirical Machine Unlearning Evaluation: A Game-Theoretic View”. *In submission* 
- [T1] **Pingbang Hu**, “Travel the Same Path: A Novel TSP Solving Strategy”. *Technical Report* 

TEACHING EXPERIENCE

- Graduate Teaching Assistant, University of Illinois Urbana-Champaign** **Illinois**
 - Hold discussion and office hour weekly, design assignment and exam problems, grade and guide projects.*
 - Network Analysis**: A graduate-level course on the M.S. IS track. **Spring 2025**
- Instructional Aide, University of Michigan** **Michigan**
 - Hold discussion and office hour weekly, design assignment and exam problems, grade and guide projects.*
 - Introduction to Cryptography**: An upper-level course on the main undergraduate CS track. **Winter 2023**
 - Randomness and Computation**: A graduate-level course on the M.S. CS theory track. **Fall 2022**
- Teaching Assistant, Shanghai Jiao Tong University** **Shanghai, China**
 - Hold discussion and office hour weekly, design and grade assignments and exams.*
 - Honor Mathematics III**: An undergraduate-level course on the main B.Eng. ECE track. **Summer 2021**
 - * **Competition**: Hold the 1st UM-SJTU **JIntegration Bee competition**.
 - Honor Mathematics II**: An undergraduate-level course on the main B.Eng. ECE track. **Fall 2020**

HONORS AND AWARDS

- Graduate Conference Travel Award** **Illinois**
 - Graduate College's Competition at University of Illinois Urbana-Champaign* **Nov. 2024**
- NeurIPS 2024 Scholar Award** **British Columbia, Canada**
 - Financial Aid Award for NeurIPS 2024* **Oct. 2024**
- Excellent Internship Award** **Tokyo, Japan**
 - Excellent (best) internship evaluation at National Institute of Informatics* **Aug. 2024**
- Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship** **Shanghai, China**
 - First Prize (Ranked #2) among all HK, MC and TW students at Shanghai Jiao Tong University* **Oct. 2021**
- Undergraduate Excellent Scholarship** **Shanghai, China**
 - Third Prize among all students at UM-SJTU Joint Institute* **Nov. 2020**
- Bao Gang Excellent Scholarship** **Shanghai, China**
 - Second Prize (Ranked #3) among all Taiwan students at Shanghai Jiao Tong University* **June 2020**
- Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship** **Shanghai, China**
 - First Prize (Ranked #1) among all HK, MC and TW students at UM-SJTU Joint Institute* **Dec. 2019**

PROFESSIONAL SERVICE

- Program Committee**
 - AAAI 2025*
- Conference Reviewer**
 - ICML 2024, IEEE BigData 2023, ICLR 2025*