

RESEARCH INTEREST

Machine Learning

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

Theoretical Computer Science

- *Fast Graph Algorithm, Approximation Algorithm, Computational Complexity, Hardness of Approximation*

EDUCATION

University of Illinois Urbana-Champaign

Illinois

- *Ph.D. Student in Information Science, School of Information Science*

Aug. 2023–Present

- **Advisor:** Jiaqi Ma

University of Michigan

Michigan

- *B.Sc. in Computer Science, College of Engineering*

Aug. 2021–May 2023

- Graduate with *Summa Cum Laude*

- **Minor:** Mathematics, College of Literature, Science, and the Arts

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*

Aug. 2019–Aug. 2023

- **Minor:** Computer Science, UM-SJTU Joint Institute

RESEARCH AND INDUSTRY EXPERIENCE

Sugiyama Laboratory, National Institute of Informatics

Tokyo, Japan

- *Research Intern*

May 2024–Aug. 2024

- **Advisor:** Mahito Sugiyama

Theory of Computation Laboratory, University of Michigan

Michigan

- *Undergraduate Researcher*

Mar. 2022–Dec. 2023

- **Advisor:** Thatchaphol Saranurak

SURE Program, University of Michigan

Michigan

- *Undergraduate Researcher*

May 2022–Apr. 2023

- **Advisor:** Wei Hu

FORESEER Research Group, University of Michigan

Michigan

- *Undergraduate Research Assistant*

Dec. 2021–Jan. 2023

- **Advisor:** Jiaqi Ma

Chief Noob

Shanghai, China

- *Backend Developer*

Oct. 2020–June 2021





PEER-REVIEWED CONFERENCE PUBLICATIONS

(* denotes equal contribution)

- [C1] 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) 
- [C2] 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] Xinhe Wang, **Pingbang Hu**, Junwei Deng, Jiaqi Ma, “Adversarial Attacks on Data Attribution”. *In submission* 
- [P3] 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

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 1 st UM-SJTU JIntegration Bee competition.	
◦ Honor Mathematics II : An undergraduate-level course on the main B.Eng. ECE track.	Fall 2020

HONORS AND AWARDS

NeurIPS 2024 Scholar Award	British Columbia, Canada
▪ Financial Aid Award for NeurIPS 2024	Oct. 2024
Excellent Internship Evaluation	Tokyo, Japan
▪ Best internship evaluation result in 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 in Shanghai Jiao Tong University	Oct. 2021
Undergraduate Excellent Scholarship	Shanghai, China
▪ Third Prize among all students in UM-SJTU Joint Institute	Nov. 2020
Bao Gang Excellent Scholarship	Shanghai, China
▪ Second Prize (Ranked #3) among all Taiwan students in 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 in UM-SJTU Joint Institute	Dec. 2019

PROFESSIONAL SERVICE

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