

## 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] 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**) 
- [C3] Xinhe Wang, **Pingbang Hu**, Junwei Deng, Jiaqi Ma, “Adversarial Attacks on Data Attribution”. In *2nd Workshop on Attributing Model Behavior at Scale at the Advances in Neural Information Processing Systems* (ATTRIB@NeurIPS 2024) 

## 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

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

## HONORS AND AWARDS

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- 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

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