

Illinois

Illinois

Michigan

Aug. 2023-Present

Aug. 2023-May 2025

Aug. 2021-May 2023

Hsinchu, Taiwan

Jan. 2020-Jul. 2020

Shanghai, China

Tokyo, Japan

Michigan

Michigan

Michigan

May 2024-Aug. 2024

Mar. 2022-Dec. 2023

May 2022-Apr. 2023

Aug. 2019-Aug. 2023

Pingbang Hu A P III ()

Research Interest

Machine Learning

Trustworthy Machine Learning, Data-Centric AI, Statistical Learning Theory, Manifold and Graph Learning

Theoretical Computer Science

Fast Graph Algorithm, Approximation Algorithm, Learning Theory

EDUCATION

University of Illinois Urbana-Champaign

Ph.D. Candidate in Information Science, School of Information Science

o Advisor: Jiaqi Ma

University of Illinois Urbana-Champaign

* M.S. in Applied Mathematics, College of Liberal Arts & Sciences

o Concentration: Optimization and Algorithms

University of Michigan

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

National Yang Ming Chiao Tung University

Visiting Scholar

Shanghai Jiao Tong University

B.Eng. in Electrical and Computer Engineering, UM-SJTU Joint Institute

o Minor: Computer Science, UM-SJTU Joint Institute

RESEARCH AND INDUSTRY EXPERIENCE

AWS AI Lab, Amazon New York

Applied Scientist Intern May 2025-Aug. 2025

Sugiyama Laboratory, National Institute of Informatics

Research Intern

o Advisor: Mahito Sugiyama

Theory of Computation Laboratory, University of Michigan

 $Under graduate\ Researcher$

o Advisor: Thatchaphol Saranurak

SURE Program, University of Michigan

 $Undergraduate\ Researcher$ o Advisor: Wei Hu

FORESEER Research Group, University of Michigan

Undergraduate Research Assistant Dec. 2021-Jan. 2023

o Advisor: Jiaqi Ma

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)
- [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)

- [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

o 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

Excellent Internship Award

Oct. 2024 Tokyo, Japan

Excellent (best) internship evaluation at National Institute of Informatics

Aug. 2024

Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship

First Prize (Ranked #2) among all HK, MC and TW students at Shanghai Jiao Tong University

Shanghai, China 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

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

same 2020

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