

Pingbang Hu



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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

- Advisor: Jiaqi Ma

Illinois

Aug. 2023–Present

University of Illinois Urbana-Champaign

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

- Concentration: Optimization and Algorithms

Illinois

Aug. 2023–Aug. 2025

University of Michigan

- B.S. in Computer Science with **Summa Cum Laude**, College of Engineering

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

Michigan

Aug. 2021–May 2023

Shanghai Jiao Tong University

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

- Minor: Computer Science, UM-SJTU Joint Institute

Shanghai, China

Aug. 2019–Aug. 2023

RESEARCH AND INDUSTRY EXPERIENCE

Deep Learning Research, Susquehanna International Group

- Machine Learning Ph.D. Intern

Pennsylvania

(Incoming) June 2026–Aug. 2026

Alignment Science Team, Anthropic

- AI Safety Research Fellows

San Francisco

Jan. 2026–May 2026

AWS AI Lab, Amazon

- Applied Scientist Intern

New York

May 2025–Aug. 2025

Sugiyama Laboratory, National Institute of Informatics

- Research Intern

Tokyo, Japan

May 2024–Aug. 2024

- Advisor: Mahito Sugiyama

SURE Program, University of Michigan

- Undergraduate Researcher

Michigan

May 2022–Apr. 2023

- Advisor: Wei Hu

PEER-REVIEWED CONFERENCE PUBLICATIONS

(* denotes equal contribution)

- [C1] **Pingbang Hu**, Joseph Melkonian, Weijing Tang, Han Zhao, Jiaqi W. Ma, “GRASS: Scalable Data Attribution with Gradient Sparsification and Sparse Projection”. In *Proceedings of the 39th Advances in Neural Information Processing Systems* (NeurIPS 2025)
- [C2] Yiwen Tu*, **Pingbang Hu***, Jiaqi W. Ma, “A Reliable Cryptographic Framework for Empirical Machine Unlearning Evaluation”. In *Proceedings of the 39th Advances in Neural Information Processing Systems* (NeurIPS 2025)
- [C3] Xinhe Wang, **Pingbang Hu**, Junwei Deng, Jiaqi W. Ma, “Adversarial Attacks on Data Attribution”. In *Proceedings of the 13th International Conference on Learning Representations* (ICLR 2025)
- [C4] Yuzheng Hu, **Pingbang Hu**, Han Zhao, Jiaqi W. Ma, “Most Influential Subset Selection: Challenges, Promises, and Beyond”. In *Proceedings of the 38th Advances in Neural Information Processing Systems* (NeurIPS 2024)
- [C5] Junwei Deng*, Ting-Wei Li*, Shiyuan Zhang, Yijun Pan, Hao Huang, Xinhe Wang, **Pingbang Hu**, Xingjian Zhang, Jiaqi W. 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] Junwei Deng*, Yuzheng Hu*, **Pingbang Hu***, Ting-Wei Li*, Shixuan Liu*, et al., “A Survey of Data Attribution: Methods, Applications, and Evaluation in the Era of Generative AI”. *In submission* 
- [P2] **Pingbang Hu**, Mahito Sugiyama, “Pseudo-Non-Linear Data Augmentation via Energy Minimization”. *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 hours weekly, design assignments and exam problems, grade and guide projects.	
◦ Network Analysis : A graduate-level course on the M.S. IS track.	<i>Spring 2025, Spring 2026</i>
Instructional Aide, University of Michigan	Michigan
Hold discussion and office hours weekly, design assignments and exam problems, grade and guide projects.	
◦ Introduction to Cryptography : An upper-level course on the main undergraduate CS track.	<i>Winter 2023</i>
◦ Randomness and Computation : A graduate-level course on the M.S. CS theory track.	<i>Fall 2022</i>
Teaching Assistant, Shanghai Jiao Tong University	Shanghai, China
Hold discussion and office hours weekly, design and grade assignments and exams.	
◦ Honor Mathematics III : An undergraduate-level course on the main B.Eng. ECE track.	<i>Summer 2021</i>
* Competition : Hold the 1 st UM-SJTU JIntegration Bee competition.	
◦ Honor Mathematics II : An undergraduate-level course on the main B.Eng. ECE track.	<i>Fall 2020</i>

HONORS AND AWARDS

Anthropic AI Safety Research Fellowship	San Francisco
Fellows (32 out of 2000+ applicants worldwide) for AI Safety Research at Anthropic	<i>Oct. 2025</i>
Graduate Conference Travel Award	Illinois
Graduate College’s Competition at University of Illinois Urbana-Champaign	<i>Nov. 2024</i>
NeurIPS 2024 Scholar Award	British Columbia, Canada
Financial Aid Award for NeurIPS 2024	<i>Oct. 2024</i>
Excellent Internship Award	Tokyo, Japan
Excellent (best) internship evaluation at National Institute of Informatics	<i>Aug. 2024</i>
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	<i>Oct. 2021</i>
Undergraduate Excellent Scholarship	Shanghai, China
Third Prize among all students at UM-SJTU Joint Institute	<i>Nov. 2020</i>
Bao Gang Excellent Scholarship	Shanghai, China
Second Prize (Ranked #3) among all Taiwan students at Shanghai Jiao Tong University	<i>June 2020</i>
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	<i>Dec. 2019</i>

PROFESSIONAL SERVICE

- Program Committee**
 - AAAI 2025
- Conference Reviewer**
 - ICLR 2026, NeurIPS 2025, ICLR 2025, ICML 2024, IEEE BigData 2023
- Journal Reviewer**
 - TMLR