

## RESEARCH INTEREST

### Machine Learning

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

### Theoretical Computer Science

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

## EDUCATION

### University of Illinois Urbana-Champaign

Illinois

- *Ph.D. Candidate in Information Science, School of Information Science*
  - **Advisor:** Jiaqi Ma

Aug. 2023–Present

### University of Illinois Urbana-Champaign

Illinois

- *M.S. in Applied Mathematics, College of Liberal Arts & Sciences*
  - **Concentration:** Optimization and Algorithms

Aug. 2023–Aug. 2025

### University of Michigan

Michigan

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

Aug. 2021–May 2023

### Shanghai Jiao Tong University

Shanghai, China

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

Aug. 2019–Aug. 2023

## RESEARCH AND INDUSTRY EXPERIENCE

### Deep Learning Research, Susquehanna International Group

Pennsylvania

- *Machine Learning Ph.D. Intern*

(Incoming) June 2026–Aug. 2026

### Alignment Science Team, Anthropic

San Francisco

- *AI Safety Research Fellows*

Jan. 2026–May 2026

### AWS AI Lab, Amazon

New York

- *Applied Scientist Intern*

May 2025–Aug. 2025

### Sugiyama Laboratory, National Institute of Informatics

Tokyo, Japan

- *Research Intern*

May 2024–Aug. 2024

- **Advisor:** Mahito Sugiyama

### SURE Program, University of Michigan

Michigan







- *Undergraduate Researcher*




May 2022–Apr. 2023

- **Advisor:** Wei Hu

## PEER-REVIEWED CONFERENCE PUBLICATIONS

(\* denotes equal contribution)

- [C1] **Pingbang Hu**, Mahito Sugiyama, “Pseudo-Nonlinear Data Augmentation: A Constrained Energy Minimization Viewpoint”. In *Proceedings of the 14th International Conference on Learning Representations (ICLR 2026)* 
- [C2] **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)* 
- [C3] 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)* 
- [C4] 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)* 
- [C5] 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)* 
- [C6] Junwei Deng\*, Ting-Wei Li\*, Shiyuan Zhang, Yijun Pan, Hao Huang, Xinhe Wang, **Pingbang Hu**, Xingjian Zhang, Jiaqi W. Ma, “**datttri**: 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**, Yuzheng Hu, Jiaqi W. Ma, Han Zhao, “A Unified Theory of Random Projection for Influence Functions”. *Preprint* 
- [P2] 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”. *Preprint* 
- [T1] **Pingbang Hu**, “Travel the Same Path: A Novel TSP Solving Strategy”. *Technical Report* 

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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. *Spring 2025, Spring 2026*
- 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. *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 hours 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*

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HONORS AND AWARDS

- Anthropic AI Safety Research Fellowship** **San Francisco**
- *Fellows (32 out of 2000+ applicants worldwide) for AI Safety Research at Anthropic* *Oct. 2025*
- 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*

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PROFESSIONAL SERVICE

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