

YITING HU

🏠 <https://yitinghuo11.github.io/> ✉ yiting_hu@mymail.sutd.edu.sg 🎓 Google Scholar 📍 Singapore / Guangzhou, China

RESEARCH INTERESTS

Machine Learning Theory, Trustworthy AI, Online Learning, Game Theory, and Mechanism Design.

EDUCATION

Singapore University of Technology and Design (SUTD) Singapore
Ph.D. in Engineering Systems and Design 2023–Present

• Advised by Prof. Lingjie Duan

Beihang University Beijing, China
M.Eng. in Electronic Information Engineering 2019–2022

Beihang University Beijing, China
B.S. in Chemistry 2015–2019

EXPERIENCE

The Hong Kong University of Science and Technology (Guangzhou) Guangzhou, China
Visiting Research Student, advised by Prof. Lingjie Duan Jan. 2026–Present

Beihang University China
Research Assistant, advised by Prof. Zhuangzhi Wu 2022–2023

PUBLICATIONS

PUBLISHED PAPERS

- [1] **Yiting Hu** and Lingjie Duan. “Theory of Continual Learning Against Data Poisoning Attacks”. In: *Proceedings of the 43rd International Conference on Machine Learning (ICML)*. Vol. 306. Proceedings of Machine Learning Research. PMLR, 2026, pp. 44906–44935. URL: <https://proceedings.mlr.press/v306/hu26n.html>.
- [2] **Yiting Hu**, Lingjie Duan, and Qian Zhang. “The Forgetting-Retention Dilemma: Certified Un-learning Theory in Continual Learning”. In: *Proceedings of the 43rd International Conference on Machine Learning (ICML)*. Vol. 306. Proceedings of Machine Learning Research. PMLR, 2026, pp. 44936–44975. URL: <https://proceedings.mlr.press/v306/hu26o.html>.
- [3] **Yiting Hu** and Lingjie Duan. “Human-in-the-loop Learning Through Decentralized Communication Mechanisms”. In: *Proceedings of the Twenty-sixth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing*. 2025.
- [4] **Yiting Hu** and Lingjie Duan. “Truthful Mechanisms for Linear Bandit Games with Private Contexts”. In: *Proceedings of the Twenty-fourth International Conference on Autonomous Agents and Multiagent Systems*. 2025.
- [5] **Yiting Hu**, Xiling Luo, and Dongmei Bai. “Passenger congestion alleviation in large hub airport ground-access system based on queueing theory”. In: *Transportmetrica B: Transport Dynamics* 11.1 (2023), pp. 257–278.

UNDER REVIEW

- [6] **Yiting Hu** and Lingjie Duan. “A Unified Certified Unlearning Method for Regularization-Based Continual Learning”. 2026.
- [7] **Yiting Hu** and Lingjie Duan. “Human-in-the-Loop Learning Through Communication Restriction”. Under review at IEEE Transactions on Networking. 2026.
- [8] **Yiting Hu** and Lingjie Duan. “Theory for Group-Robust Continual Learning”. 2026.
- [9] **Yiting Hu**, Lingjie Duan, and Zixin Zhong. “Strategyproof Contextual Linear Bandit Algorithms”. 2026.
- [10] Fengjiao Li, **Yiting Hu**, and Lingjie Duan. “Regulating Human-in-the-Loop Learning for Dynamic LLMs”. 2026.

INVITED TALKS AND CONFERENCE PRESENTATIONS

<i>Truthful Mechanisms for Linear Bandit Games with Private Contexts</i>	May 2025
Twenty-fourth International Conference on Autonomous Agents and Multiagent Systems (AAMAS)	
<i>Human-in-the-loop Learning Through Decentralized Communication Mechanisms</i>	Oct. 2025
Twenty-sixth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc)	
<i>Theory of Continual Learning Against Data Poisoning Attacks</i>	Jun. 2026
The Hong Kong University of Science and Technology (Guangzhou)	

TEACHING EXPERIENCE

Teaching Assistant, Singapore University of Technology and Design

40.002 Optimisation , undergraduate course	Mar. 2025–Jun. 2025
40.302 Advanced Topics in Optimisation , undergraduate course	Sep. 2024–Dec. 2024
40.305 Advanced Topics in Stochastic Modelling , undergraduate course	Sep. 2024–Dec. 2024

AWARDS

SUTD PhD Fellowship	2023
First Prize of Beihang University Graduate Academic Scholarship	2020, 2021

VOLUNTEER SERVICE

Volunteer, CCF YOCSEF Guangzhou Technical Forum	Sep. 5, 2026
<i>“Sharing with Confidence, Using Efficiently”: Addressing Core Challenges in Data Circulation</i>	

TECHNICAL REVIEWER

IEEE INFOCOM	2025
International Conference on Machine Learning (ICML)	2026
Conference on Neural Information Processing Systems (NeurIPS)	2026
International Conference on Learning Representations (ICLR)	2026
IASEAI	2027
IEEE Transactions on Networking (IEEE TON)	