

# YU CHEN

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## EDUCATION

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**Ph.D. Candidate** | *Computer Science* Sep. 2023 – Jun. 2028(expected)  
Tsinghua University, Institute for Interdisciplinary Information Sciences (IIIS)  
Advisor: Prof. Longbo Huang

**Bachelor of Science** | *Mathematics* Aug. 2019 – Jun 2023  
Tsinghua University, Department of Mathematics Rank 17/110

## RESEARCH INTEREST

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Machine learning, with emphases the theory and application on reinforcement learning and online learning.

## PUBLICATIONS

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**Yu Chen\***, XiangCheng Zhang\*, Siwei Wang, Longbo Huang, "Provable Risk-Sensitive Distributional Reinforcement Learning with General Function Approximation", in 41st International Conference on Machine Learning (ICML), 2024. (*\*equal contribution*)

Zhang, Tonghe\*, **Yu Chen\***, and Longbo Huang. "Provably Efficient Partially Observable Risk-Sensitive Reinforcement Learning with Hindsight Observation." in 41st International Conference on Machine Learning (ICML), 2024. (*\*equal contribution*)

**Yu Chen**, Yihan Du, Pihe Hu, Siwei Wang, Desheng Wu, and Longbo Huang, "Provably Efficient Iterated CVaR Reinforcement Learning with Function Approximation and Human Feedback," in 12th International Conference on Learning Representations (ICLR), 2024.

Pihe Hu, **Yu Chen**, Ling Pan, Zhixuan Fang, Fu Xiao, and Longbo Huang, "Multi-User Delay-Constrained Scheduling With Deep Recurrent Reinforcement Learning," in *IEEE/ACM Transactions on networking (TON)*, 2023.

Pihe Hu\*, **Yu Chen\***, and Longbo Huang, "Towards minimax optimal reward-free reinforcement learning in linear mdps," in 11th International Conference on Learning Representations (ICLR), 2023. (*\*equal contribution*)

Pihe Hu, **Yu Chen**, and Longbo Huang, "Nearly minimax optimal reinforcement learning with linear function approximation," in 39th International Conference on Machine Learning (ICML), 2022.

Pihe Hu, Ling Pan, **Yu Chen**, Zhixuan Fang, and Longbo Huang, "Effective multi-user delay-constrained scheduling with deep recurrent reinforcement learning," in *The 23rd International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing(MobiHoc)*, 2022.

## SELECTED HONORS AND AWARDS

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<b>China National Scholarship</b> Recognition for 2/177 master and the first, second and third year Ph.D. students in IIIS, Tsinghua	Nov 2024
<b>China National Scholarship</b> Recognition for 2/110 junior undergraduate students in Department of Mathematics, Tsinghua	Oct 2022
<b>Xiao Qin Scholarship</b> Recognition for the best student for each class in Department of Mathematics, Tsinghua	Dec 2022
<b>Tsinghua University Scholarship for Social Work</b>	Oct 2021

<b>Tsinghua University Scholarship for Social Work</b>	Oct 2020
<b>Tsinghua University Scholarship for Academic</b>	Oct 2020
<b>First Prize (Beijing Area), China Undergraduate Mathematical Contest in Modelling</b>	Sep 2020
<b>First Prize, Chinese Mathematical Olympiad in Provinces</b>	Sep 2018
<b>First Prize, Chinese Mathematical Olympiad in Provinces</b>	Sep 2017
<b>First Prize, National Olympiad in Informatics in Provinces</b>	Nov 2017

#### LEADERSHIP EXPERIENCE

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<b>Tsinghua Students' Association of Min Culture</b> Serve as president from Mar 2021 – Sep 2023	Aug 2019 – Sep 2023
<b>Tsinghua Students' Club of Military Chess</b> Serve as vice president from Jun 2021 – Jun 2023	Oct 2019 – Jun 2023