

Runzhe Wu

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EDUCATION

Cornell University

Ph.D. Student, Computer Science, advised by [Wen Sun](#)

Committee Members: Wen Sun, Thorsten Joachims, Karthik Sridharan

Ithaca, NY, USA

Aug. 2022 - Present

Shanghai Jiao Tong University

B.E. Computer Science (ACM Honors Class)

Graduated with Highest Honor

Shanghai, China

Sep. 2018 - Jun. 2022

RESEARCH INTERESTS

Reinforcement Learning, Diffusion Model, Bandits, Active Learning, Machine Learning.

RESEARCH EXPERIENCE

Northwestern University

Research Intern

○ Advised by [Zhaoran Wang](#) and [Zhuoran Yang](#).

○ Research on reinforcement learning theory, with an emphasis on offline reinforcement learning.

Evanston, IL, USA

Feb. 2021 - Feb. 2022

Shanghai Jiao Tong University

Undergraduate Researcher

○ Advised by [Weinan Zhang](#) and [Yong Yu](#).

○ Research on multi-agent reinforcement learning, with an emphasis on population-based methods.

Shanghai, China

Aug. 2020 - Jun. 2021

PUBLICATIONS & PREPRINTS

Diffusing States and Matching Scores: A New Framework for Imitation Learning

Runzhe Wu, Yiding Chen, Gokul Swamy, Kianté Brantley, Wen Sun

ICLR, 2025

Computationally Efficient RL under Linear Bellman Completeness for Deterministic Dynamics

Runzhe Wu*, Ayush Sekhari*, Akshay Krishnamurthy, Wen Sun

ICLR, 2025 (Oral Presentation)

Making RL with Preference-based Feedback Efficient via Randomization

Runzhe Wu, Wen Sun

ICLR, 2024

Contextual Bandits and Imitation Learning via Preference-Based Active Queries

(Alphabetical order) Ayush Sekhari, Karthik Sridharan, Wen Sun, Runzhe Wu

NeurIPS, 2023

Selective Sampling and Imitation Learning via Online Regression

(Alphabetical order) Ayush Sekhari, Karthik Sridharan, Wen Sun, Runzhe Wu

NeurIPS, 2023

The Benefits of Being Distributional: Small-Loss Bounds for Reinforcement Learning

Kaiwen Wang, Kevin Zhou, Runzhe Wu, Nathan Kallus, Wen Sun

NeurIPS, 2023

Distributional Offline Policy Evaluation with Predictive Error Guarantees

Runzhe Wu, Masatoshi Uehara, Wen Sun

ICML, 2023

MALib: A Parallel Framework for Population-based Multi-agent Reinforcement Learning

Ming Zhou, Ziyu Wan, Hanjing Wang, Muning Wen, Runzhe Wu, Ying Wen, Yaodong Yang, Weinan Zhang, Jun Wang

JMLR, 2023

Offline Constrained Multi-Objective Reinforcement Learning via Pessimistic Dual Value Iteration

Runzhe Wu, Yufeng Zhang, Zhuoran Yang, Zhaoran Wang

NeurIPS, 2021

INVITED TALKS

Computationally Efficient RL under Linear Bellman Completeness for Deterministic Dynamics

RL Theory Seminars

Nov. 2024

AWARDS

Programming Contest Awards

- Gold Medal in the 2019 ICPC China Nanchang National Invitational Programming Contest
- Gold Medal in the 2018 ICPC Asia Hanoi Regional Programming Contest
- Gold Medal in the 2018 ICPC Asia Xuzhou Regional Programming Contest
- Gold Medal in the 2018 CCPC Qinhuangdao Regional Programming Contest
- Silver Medal in the 34th China National Olympiad in Informatics

Scholarships & Honors

- Outstanding Graduate of Shanghai *2022*
- Huawei Scholarship *2020*
- Rong Chang Scholarship *2019 & 2021*
- Zhiyuan Honorary Scholarship *2018 - 2020*

TEACHING EXPERIENCE

CS 4789: Introduction to Reinforcement Learning

Teaching Assistant

Cornell University

Jan. 2023 - May. 2023

CS 4700: Foundations of Artificial Intelligence

Teaching Assistant

Cornell University

Aug. 2022 - Dec. 2022

CS 147: Data Structure

Teaching Assistant

Shanghai Jiao Tong University

Feb. 2022 - Jun. 2022

CS 151: Programming

Teaching Assistant

Shanghai Jiao Tong University

Sep. 2019 - Jan. 2020 & Sep. 2021 - Jan. 2022

SERVICES

- **Reviewer** of ICML 2023-2025, NeurIPS 2023-2025, ICLR 2024-2025, COLT 2024
- **Mentor** of Cornell CS PhD Mentor Program *2023 - 2024*
- **Organizer** of the 2021 ACM-Class Academic Symposium *Jun. 2021*
- **Organizer** of the 2021 ACM-Class Sports Festival *Apr. 2021 - May. 2021*
- **President** of ACM Honors Class, Shanghai Jiao Tong University *Sep. 2020 - Jun. 2022*

SKILLS

Language Chinese(native), English(fluent)
Programming Python, C/C++, Java, L^AT_EX

(Last Update: February 24, 2025)