

Runzhe Wu

2 W Loop Rd – New York – NY

✉ rw646@cornell.edu • <https://ziqian2000.github.io/>

EDUCATION

Cornell Tech, Cornell University

New York, NY, USA

Ph.D. Candidate, Computer Science

Aug. 2022 - Present

- Advisor: Wen Sun. Committee Members: Wen Sun, Thorsten Joachims, Karthik Sridharan
- Started at Ithaca campus and then transferred to Cornell Tech campus at the start of my fourth year
- Anticipated graduation: Summer or Fall 2026

Shanghai Jiao Tong University

Shanghai, China

B.E., Computer Science

Sep. 2018 - Jun. 2022

- Member of ACM Honors Class (An Elite CS Program)
- Graduated with Highest Honor

RESEARCH INTERESTS

My research centers on **reinforcement learning**, focusing on both its core theories and its interplay with language models.

EXPERIENCE

Meta

New York, NY, USA

Research Scientist Intern

May. 2025 - Aug. 2025

- Manager: Yonathan Efroni
- Research on RL post-training of language models, with an emphasis on multi-task learning.

Northwestern University

Evanston, IL, USA

Research Intern

Feb. 2021 - Feb. 2022

- Advised by Zhaoran Wang and Zhuoran Yang.
- Research on reinforcement learning theory, particularly offline RL.

Shanghai Jiao Tong University

Shanghai, China

Undergraduate Researcher

Aug. 2020 - Jun. 2021

- Advised by Weinan Zhang and Yong Yu.
- Research on multi-agent reinforcement learning and population-based methods.

PUBLICATIONS & PREPRINTS

Imbalanced Gradients in RL Post-Training of Multi-Task LLMs

Runzhe Wu, Ankur Samanta, Ayush Jain, Scott Fujimoto, Jeongyeol Kwon, Ben Kretzu, Youliang Yu, Kaveh Hassani, Boris Vidolov, Yonathan Efroni

Preprint, 2025

Internalizing Self-Consistency in Language Models: Multi-Agent Consensus Alignment

Ankur Samanta, Akshayaa Magesh, Youliang Yu, **Runzhe Wu**, Ayush Jain, Daniel Jiang, Boris Vidolov, Paul Sajda, Yonathan Efroni, Kaveh Hassani

Preprint, 2025

Computationally Efficient RL under Linear Bellman Completeness for Deterministic Dynamics

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

ICLR, 2025 (Oral Presentation – Top 1.8%)

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

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

ICLR, 2025

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

ICLR 2025, Oral Session

Apr. 2025

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 2024-2026, 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	English, Chinese
Programming	Python, C/C++, $\text{\LaTeX}$