

Yuxiao Qu

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Education

Carnegie Mellon University

PhD in Machine Learning

Advisor: Prof. Aviral Kumar & Prof. Ruslan Salakhutdinov

May 2024 - Present

Pittsburgh, PA

Carnegie Mellon University

Master of Science in Machine Learning

Advisor: Prof. Aviral Kumar

GPA: 4.28/4.33

Aug 2023 - Present

Pittsburgh, PA

University of Wisconsin - Madison

Bachelor of Science in Computer Science and Mathematics

Avisor: Prof. Josiah P. Hanna

GPA: 4.00/4.00

Sep 2020 – Dec 2022

Madison, WI

The Chinese University of Hong Kong

Major: Computer Science

Sep 2017 – May 2020

Hong Kong

Honors and Scholarships

- Best paper award in 2021 IEEE/ACM Asian and South Pacific Design Automation Conference
- 2021 ICPC North Central NA Regional Contest (15th/96)
- 2020 Professor Charles K. Kao Research Exchange Scholarship
- Best project award in 2019 Undergraduate Summer Research Internship

Publications

(*indicates Equal Contribution)

1. Harnessing Webpage UIs for Text-Rich Visual Understanding

Junpeng Liu, Tianyue Ou*, Yifan Song*, **Yuxiao Qu***, Wai Lam, Chenyan Xiong, Wenhui Chen, Graham Neubig, Xiang Yue

Preprint

2. Recursive Introspection: Teaching Language Model Agents How to Self-Improve

Yuxiao Qu, Tianjun Zhang, Naman Garg, Aviral Kumar

The Thirty-Eighth Annual Conference on Neural Information Processing Systems (NeurIPS), 2024

3. Guided Data Augmentation for Offline Reinforcement Learning and Imitation Learning

Nicholas E. Corrado, **Yuxiao Qu**, John U. Balis, Adam Labiosa, Josiah P. Hanna

The first Reinforcement Learning Conference (RLC), 2024

4. FLEE-GNN: A Federated Learning System for Edge-Enhanced Graph Neural Network in Analyzing Geospatial Resilience of Multicommodity Food Flows

Yuxiao Qu, Jinmeng Rao, Song Gao, Qianheng Zhang, Wei-Lun Chao, Yu Su, Michelle Miller, Alfonso Morales, Patrick Huber

ACM SIGSPATIAL International Workshop on AI for Geographic Knowledge Discovery, 2023

5. Simulation-Acquired Latent Action Spaces for Dynamics Generalization

Nicholas Corrado, **Yuxiao Qu**, Josiah P. Hanna

Proceedings of Machine Learning Research (PMLR), 2022

6. Polite or Direct? Conversation Design of a Smart Display for Older Adults Based on Politeness Theory

Yaxin Hu, **Yuxiao Qu**, Adam Maus, Bilge Mutlu

ACM CHI Conference on Human Factors in Computing Systems (CHI), 2022

7. TreeNet: Deep Point Cloud Embedding for Routing Tree Construction

Wei Li, **Yuxiao Qu**, Gengjie Chen, Yuzhe Ma, Bei Yu

ACM Asian and South Pacific Design Automation Conference (ASPDAC), 2021 (Best Paper Award)

Invited Talks

☐ **Recursive Introspection: Teaching Language Model Agents How to Self-Improve**

ICML Workshop on Large Language Models and Cognition

July 2024

Teaching Experience

Undergraduate Teaching Assistant

University of Wisconsin – Madison

☐ COMP SCI 577: Introduction to Algorithms (Honor Session)

Fall 2022

☐ COMP SCI 537: Introduction to Operating Systems

Fall 2022

Work Experience

Morgridge Institute for Research

Apr 2023 – Aug 2023

Research Software Engineer

Madison, WI

Professional Service

Reviewer for ICML (2024), NeurIPS (2024), AISTATS (2025), ICLR (2025)