# Yuxiao Qu

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## Education

**Carnegie Mellon University**                                              May 2024 - Present
PhD in Machine Learning                                                        Pittsburgh, PA
Advisor: Prof. Aviral Kumar & Prof. Ruslan Salakhutdinov

**Carnegie Mellon University**                                              Aug 2023 - May 2024
Master of Science in Machine Learning                                          Pittsburgh, PA
Advisor: Prof. Aviral Kumar
*GPA: 4.28/4.33*

**University of Wisconsin - Madison**                                       Sep 2020 – Dec 2022
Bachelor of Science in Computer Science and Mathematics                          Madison, WI
Avisor: Prof. Josiah P. Hanna
*GPA: 4.00/4.00*

**The Chinese University of Hong Kong**                                     Sep 2017 – May 2020
Major: Computer Science                                                          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. **Optimizing Test-Time Compute via Meta Reinforcement Finetuning**
   **Yuxiao Qu**, Matthew Y. R. Yang, Amrith Setlur, Lewis Tunstall, Edward Emanuel Beeching, Ruslan Salakhutdinov, Aviral Kumar
   Preprint
2. **Harnessing Webpage UIs for Text-Rich Visual Understanding**
   Junpeng Liu, Tianyue Ou*, Yifan Song*, **Yuxiao Qu\***, Wai Lam, Chenyan Xiong, Wenhu Chen, Graham Neubig, Xiang Yue
   The Thirteenth International Conference on Learning Representations (ICLR), 2025
3. **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
4. **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
5. **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

6. **Simulation-Acquired Latent Action Spaces for Dynamics Generalization**
   Nicholas Corrado, **Yuxiao Qu**, Josiah P. Hanna
   Proceedings of Machine Learning Research (PMLR), 2022

7. **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

8. **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

## Proessional Service

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