

Qinxi Yu

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EDUCATION

UNIVERSITY OF TORONTO

Honored B.S. Computer Science. GPA:3.96/4.0

September 2018 - June 2023

PUBLICATIONS

(First Author) *ORBIT-Surgical: An Open-Simulation Framework for Accelerated Learning Environments in Surgical Autonomy*

Conference: *ICRA 2024* [<https://orbit-surgical.github.io>]

Status: Under Review

ORBIT: A Unified Simulation Framework for Interactive Robot Learning Environments

Journal: *IEEE RA-L 2023* [<https://isaac-orbit.github.io>]

Status: Accepted

Robot-Assisted Vascular Shunt Insertion with the dVRK Surgical Robot

Journal: *JMRR 2023* [<https://sites.google.com/berkeley.edu/ravsi>]

Status: Accepted

Hybrid RL with Preference-Based Reward Learning

Journal: *ICML 2024*

Status: In Progress

ACADEMIC RESEARCH EXPERIENCE

University of Toronto, PAIR Lab & UC Berkeley, BAIR Lab

Sep.2022 - Sep.2023

Research Assistant, Advisor: Prof. Animesh Garg & Prof. Ken Goldberg

- Research on Robot Learning For Surgical Manipulation Tasks With ORBIT (ORBIT-SURGICAL)
- First-Author paper under review at ICRA 2024

University of Toronto, PAIR Lab

Jul.2021 - Nov.2022

Research Assistant, Advisor: Prof. Animesh Garg

- Research on a Unified Interactive Robot Learning Simulation Framework (ORBIT)
- Paper accepted at IEEE RA-L 2023

University of Toronto, PAIR Lab & UC Berkeley, BAIR Lab

Jun.2023 - Sep.2023

Research Assistant, Advisor: Prof. Animesh Garg & Prof. Ken Goldberg

- Research on Robot-Assisted Vascular Shunt Insertion with the dVRK Surgical Robot
- Paper accepted at JMRR 2023

Cornell University

Jun.2023 - Present

Research Assistant, Advisor: Prof. Wen Sun

- Research on Hybrid RL (utilizing both online and offline data) with preference-based reward learning
- Aiming for ICML 2024

INDUSTRIAL EXPERIENCE

Amazon, AWS · Toronto, Canada

July.2023 - Present

Software Development Engineer

- Work in AWS Directory System Team

Amazon, AWS · Toronto, Canada

May 2022 - Aug.2022

Software Development Engineer Intern

- Work in AWS Directory System Team

Kijiji Canada · Toronto, Canada

May 2021 - Apr.2022

Software Development Engineer Intern

- Work on backend development for Kijiji

AWARDS

Innis College Anniversary Scholarship

November 15th 2019

Winifred Florence Hughes Scholarships

November 19th 2020

Robin Harris Memorial Scholarship

December 16th 2021

Dean's List Scholar

2019 - 2023