PATRICK YIN

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EDUCATION

University of Washington

September 2023 - Present

Ph.D. Computer Science & Engineering

GPA: 4.0/4.0

University of California, Berkeley

August 2019 - May 2023

B.A. Computer Science

GPA: 4.0/4.0

Awards: Regents' and Chancellor's Scholar, top < 2\% incoming class; National Merit Scholar

PUBLICATIONS

ASID: Active Exploration for System Identification and Reconstruction in Robotic Manipulation Marius Memmel, Chuning Zhu, Andrew Wagenmaker, Patrick Yin, Dieter Fox, Abhishek Gupta International Conference on Learning Representations (ICLR), 2024 (Oral Presentation)

Stabilizing Contrastive RL: Techniques for Robotic Goal Reaching from Offline Data

Chongyi Zheng, Benjamin Eysenbach, Homer Walke, **Patrick Yin**, Kuan Fang, Ruslan Salakhutdinov, Sergey Levine International Conference on Learning Representations (ICLR), 2024 (Spotlight Talk)

Generalization with Lossy Affordances: Leveraging Broad Offline Data for Learning Visuomotor Tasks Kuan Fang, Patrick Yin, Ashvin Nair, Homer Walke, Gengchen Yan, Sergey Levine Conference on Robot Learning (CoRL), 2022 (Oral Presentation)

Planning to Practice: Efficient Online Fine-Tuning by Composing Goals in Latent Space

Kuan Fang*, **Patrick Yin***, Ashvin Nair, Sergey Levine (* indicates equal contribution) IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2022

Bisimulation Makes Analogies in Goal-Conditioned Reinforcement Learning

Philippe Hansen-Estruch, Amy Zhang, Ashvin Nair, **Patrick Yin**, Sergey Levine International Conference on Machine Learning (ICML), 2022

EXPERIENCE

Graduate Researcher, UW Robotics — Advised by Abhishek Gupta September 2023 - Present

Sim-to-real transfer and real-world finetuning for dexterous robotic manipulation.

Undergraduate Researcher, Berkeley AI Research — *Advised by Sergey Levine* July 2020 - February 2023 Offline goal-conditioned reinforcement learning and finetuning with affordance models for real-world robotic control.

Machine Learning Engineer Intern, Ambi Robotics

January 2022 - May 2022

Spearheaded training Ambi Robotics's deep learning models on real-world production data, upgrading their computer vision system to use 3D neural networks, and creating rigorous A/B testing protocols and statistical analyses.

Software Engineer Intern, UiPath

June 2021 - August 2021

Pushed over 30 Git commits to production on Insights team. Worked with Snowflake/SQL, Kubernetes, and Docker.

PROFESSIONAL SERVICE

Computer Vision and Pattern Recognition Conference (CVPR) Reviewer

2024
UW CSE PhD Admissions Reviewer

2024

OUTREACH AND SERVICE

Pre-Application Mentorship Service (PAMS) Mentor

UW Robotics Lab Outreach Coordinator

UAW 4121 Cohort Liaison

September 2023 - Present

September 2023 - Present

UW U-PASS Student Advisory Board Member

September 2023 - Present