

# PATRICK YIN

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## EDUCATION

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### University of Washington

2023–

Ph.D. Computer Science & Engineering

*Awards:* NSF Graduate Research Fellow, ~ 7% selection rate

### University of California, Berkeley

2019–2023

B.A. Computer Science, GPA: 4.0/4.0

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

## PUBLICATIONS

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### Rapidly Adapting Policies to the Real-World via Simulation-Guided Fine-Tuning

**Patrick Yin\***, Tyler Westenbroek\*, Simran Bagaria, Kevin Huang, Ching-An Cheng, Andrey Kolobov, Abhishek Gupta (\* indicates equal contribution)

*International Conference on Learning Representations (ICLR), 2025*

### DROID: A Large-Scale In-the-Wild Robot Manipulation Dataset

Alexander Khazatsky\*, Karl Pertsch\*, ..., **Patrick Yin**, ..., Sergey Levine, Chelsea Finn

*Robotics: Science and Systems (RSS), 2024*

### 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)*

### Open X-Embodiment: Robotic Learning Datasets and RT-X Models

Open X-Embodiment Collaboration, ..., **Patrick Yin**, ...

*IEEE International Conference on Robotics and Automation (ICRA), 2024 (Best Paper)*

### 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*

## PREPRINTS

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### SwipeRL: A Reinforcement Learning System for Grasping in Clutter through Non-Prehensile Pre-Grasp Motion

Kai Kwan Fung, Jack Lowry, Boling Yang, Thomas Kaminsky, **Patrick Yin**, Markus Grotz, Maya Cakmak, Joshua R. Smith, Abhishek Gupta

EXPERIENCE

<b>Graduate Researcher</b> , UW Robotics — <i>Advised by Abhishek Gupta</i>	2023–
Sim-to-real transfer and real-world finetuning for dexterous robotic manipulation.	
<b>Undergraduate Researcher</b> , Berkeley AI Research — <i>Advised by Sergey Levine</i>	2020–2023
Offline goal-conditioned reinforcement learning and finetuning with affordance models for real-world robotic control.	
<b>Machine Learning Engineer Intern</b> , Ambi Robotics	2022
Spearheaded training deep learning models on real-world production data and training 3D neural networks.	
<b>Software Engineer Intern</b> , UiPath	2021
Pushed over 30 Git commits to production on Insights team. Worked with Snowflake/SQL, Kubernetes, and Docker.	

AWARDS

<b>NSF Graduate Research Fellowship</b> . ~ 7% selection rate.	2025
<b>Highest Distinction in General Scholarship, L&amp;S CS</b> . Top ~ 3% of graduating class at Cal.	2023
<b>Regents’ and Chancellor’s Scholar</b> . Top < 2% of incoming class at Cal.	2019
<b>National Merit Scholar</b> . Top 0.02% of high school seniors in US.	2019

PROFESSIONAL SERVICE

<b>Teaching Assistant</b>	
CSE 542: Reinforcement Learning	Spring 2024
<b>Conference Reviewer</b>	
IEEE International Conference on Robotics and Automation (ICRA)	2025
Conference on Robot Learning (CoRL)	2024
Computer Vision and Pattern Recognition Conference (CVPR)	2024,2025
<b>UW CSE PhD Admissions Reviewer</b>	2024

OUTREACH AND SERVICE

<b>UW Robotics Lab Outreach Coordinator</b>	2023–2024
<b>UAW 4121 Cohort Liaison</b>	2023–2024
<b>UW U-PASS Student Advisory Board Member</b>	2023–2024
<b>Pre-Application Mentorship Service (PAMS) Mentor</b>	2023