

# PATRICK YIN

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## EDUCATION

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<b>University of Washington</b> Ph.D. Computer Science & Engineering <i>Awards:</i> NSF Graduate Research Fellow, ~ 7% selection rate	2023–
<b>University of California, Berkeley</b> B.A. Computer Science, GPA: 4.0/4.0 <i>Awards:</i> Regents' and Chancellor's Scholar, top < 2% incoming class; National Merit Scholar	2019–2023

## PUBLICATIONS

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<b>Rapidly Adapting Policies to the Real-World via Simulation-Guided Fine-Tuning</b> Patrick Yin*, Tyler Westenbroek*, Simran Bagaria, Kevin Huang, Ching-An Cheng, Andrey Kolobov, Abhishek Gupta (* indicates equal contribution) <i>International Conference on Learning Representations (ICLR), 2025</i>	2023–
<b>DROID: A Large-Scale In-the-Wild Robot Manipulation Dataset</b> Alexander Khazatsky*, Karl Pertsch*, ..., Patrick Yin, ..., Sergey Levine, Chelsea Finn <i>Robotics: Science and Systems (RSS), 2024</i>	2019–2023
<b>ASID: Active Exploration for System Identification and Reconstruction in Robotic Manipulation</b> Marius Memmel, Chunling Zhu, Andrew Wagenmaker, Patrick Yin, Dieter Fox, Abhishek Gupta <i>International Conference on Learning Representations (ICLR), 2024 (Oral Presentation)</i>	2023–
<b>Stabilizing Contrastive RL: Techniques for Robotic Goal Reaching from Offline Data</b> Chongyi Zheng, Benjamin Eysenbach, Homer Walke, Patrick Yin, Kuan Fang, Ruslan Salakhutdinov, Sergey Levine <i>International Conference on Learning Representations (ICLR), 2024 (Spotlight Talk)</i>	2023–
<b>Open X-Embodiment: Robotic Learning Datasets and RT-X Models</b> Open X-Embodiment Collaboration, ..., Patrick Yin, ... <i>IEEE International Conference on Robotics and Automation (ICRA), 2024 (Best Paper)</i>	2019–2023

<b>Generalization with Lossy Affordances: Leveraging Broad Offline Data for Learning Visuomotor Tasks</b> Kuan Fang, Patrick Yin, Ashvin Nair, Homer Walke, Gengchen Yan, Sergey Levine <i>Conference on Robot Learning (CoRL), 2022 (Oral Presentation)</i>	2023–
<b>Planning to Practice: Efficient Online Fine-Tuning by Composing Goals in Latent Space</b> Kuan Fang*, Patrick Yin*, Ashvin Nair, Sergey Levine (* indicates equal contribution) <i>IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2022</i>	2019–2023
<b>Bisimulation Makes Analogies in Goal-Conditioned Reinforcement Learning</b> Philippe Hansen-Estruch, Amy Zhang, Ashvin Nair, Patrick Yin, Sergey Levine <i>International Conference on Machine Learning (ICML), 2022</i>	2019–2023

## PREPRINTS

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<b>SwipeRL: A Reinforcement Learning System for Grasping in Clutter through Non-Prehensile Pre-Grasp Motion</b> Kai Kwan Fung, Jack Lowry, Boling Yang, Thomas Kaminsky, Patrick Yin, Markus Grotz, Maya Cakmak, Joshua R. Smith, Abhishek Gupta	2023–
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## EXPERIENCE

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<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

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<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

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<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

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<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