

PATRICK YIN

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EDUCATION

University of Washington Ph.D. Computer Science & Engineering, GPA: 3.85/4.0 <i>Awards:</i> NSF Graduate Research Fellow, ~ 7% selection rate	2023–
University of California, Berkeley 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

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) <i>International Conference on Learning Representations (ICLR), 2025</i>	2023–
DROID: A Large-Scale In-the-Wild Robot Manipulation Dataset Alexander Khazatsky*, Karl Pertsch*, ..., Patrick Yin, ..., Sergey Levine, Chelsea Finn <i>Robotics: Science and Systems (RSS), 2024</i>	2019–2023
ASID: Active Exploration for System Identification and Reconstruction in Robotic Manipulation Marius Memmel, Chuning Zhu, Andrew Wagenmaker, Patrick Yin, Dieter Fox, Abhishek Gupta <i>International Conference on Learning Representations (ICLR), 2024 (Oral Presentation)</i>	2023–
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 <i>International Conference on Learning Representations (ICLR), 2024 (Spotlight Talk)</i>	2023–
Open X-Embodiment: Robotic Learning Datasets and RT-X Models Open X-Embodiment Collaboration, ..., Patrick Yin, ... <i>IEEE International Conference on Robotics and Automation (ICRA), 2024 (Best Paper)</i>	2019–2023

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

PREPRINTS

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	2023–
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EXPERIENCE

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

AWARDS

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

PROFESSIONAL SERVICE

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

OUTREACH AND SERVICE

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