

PATRICK YIN

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EDUCATION

University of Washington

September 2023 - Present

Ph.D. Computer Science & Engineering

Advisor: Abhishek Gupta

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

Advisors: Sergey Levine, Kuan Fang

PUBLICATIONS

Generalization with Lossy Affordances: Leveraging Broad Offline Data for Learning Visuomotor Tasks

Kuan Fang, **Patrick Yin**, Ashvin Nair, Homer Walke, Gengchen Yan, Sergey Levine

Oral Presentation, *Conference on Robot Learning (CoRL)*, 2022

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

ASID: Active Exploration for System Identification and Reconstruction in Robotic Manipulation

Marius Memmel, Andrew Wagenmaker, Chuning Zhu, **Patrick Yin**, Abhishek Gupta

Stabilizing Contrastive RL: Techniques for Offline Goal Reaching

Chongyi Zheng, Benjamin Eysenbach, Homer Rich Walke, **Patrick Yin**, Kuan Fang, Sergey Levine

EXPERIENCE

Machine Learning Engineer Intern, Ambi Robotics

January 2022 - May 2022

- Spearheaded training Ambi'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 the UiPath Insights team.
- Developed Snowflake/SQLServer queries; created Kubernetes jobs to authenticate users and manage dashboards.

OUTREACH AND SERVICE

Pre-Application Mentorship Service (PAMS) Mentor

Fall 2023

Mentoring students applying to PhD programs, particularly those from marginalized and underprivileged backgrounds

UW Robotics Outreach Coordinator

Fall 2023

Organizing and leading K-12 tours of the robotics lab at UW

UAW 4121 Cohort Liaison

Fall 2023

Point of contact for union outreach for graduate students at UW CSE

UW U-PASS Student Advisory Board Member

Fall 2023

Working with UW Transportation Services and UW Student Life to represent student interest in U-PASS program