

# PATRICK YIN

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## EDUCATION

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### 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

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### 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

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### 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

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### 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

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### Pre-Application Mentorship Service (PAMS) Mentor

Fall 2023 - Present

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

### UW Robotics Outreach Coordinator

Fall 2023 - Present

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

### UAW 4121 Cohort Liaison

Fall 2023 - Present

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

### UW U-PASS Student Advisory Board Member

Fall 2023 - Present

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