

# 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  
*Mentors:* Sergey Levine, Kuan Fang, Ashvin Nair, Justin Fu

## 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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**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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**PhD Application Reader** Fall 2023 - Present  
Application reviewer for 2024 UW CSE PhD admissions

**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