

# PATRICK YIN

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## EDUCATION

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### University of California, Berkeley

B.A., Computer Science

August 2019 - Present

GPA: 4.0/4.0

*Selected Coursework:* Machine Learning, Deep Learning, Artificial Intelligence, Computer Vision, Robot Manipulation and Interaction, Convex Optimization, Probability, Parallel Programming, Algorithms

## RESEARCH EXPERIENCE

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### Robotic AI & Learning Lab (RAIL), UC Berkeley

July 2020 - Present

Advised by Professor Sergey Levine

*Research Focus:* Robot Learning, Deep Reinforcement Learning, Planning, Representation Learning

## INDUSTRY EXPERIENCE

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### Machine Learning Engineer Intern, Ambi Robotics

January 2022 - May 2022

- Worked on improving the computer vision system which powers Ambi's parcel sorting system, AmbiSort.
- Investigated utilizing real-world production data for training, upgrading Ambi's 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 connections and queries using C# and .NET Core to capture data from bots.
- Created and deployed Kubernetes jobs calling Looker API to authenticate users and manage client dashboards.

## 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

*Conference on Robot Learning (CoRL), 2022*

Oral Presentation

### 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*

## AWARDS

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### Regents' and Chancellor's Scholar

2019

Offered to top 2% of incoming undergraduates at UC Berkeley

### National Merit Scholar

2019

1 of 2500 National Merit Scholarship Winners in the United States

## SKILLS AND INTERESTS

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### Languages

Python, C/C++, Java, JavaScript/TypeScript, Swift, HTML/CSS, SQL, Bash, Powershell

### Frameworks/Tools

PyTorch, JAX, Tensorflow, GCP/AWS/Azure, CUDA, OpenMP, Docker, Kubernetes, React

### Interests

basketball, running, windsurfing, hiking, videography, weightlifting, lofi, 3D printing