

PATRICK YIN

patrickhaoy@berkeley.edu ◇ patrickyin.me ◇ [linkedin.com/in/patrickhaoy](https://www.linkedin.com/in/patrickhaoy) ◇ github.com/patrickhaoy

EDUCATION

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, Robotics, Convex Optimization, Probability, Parallel Programming, Algorithms

RESEARCH EXPERIENCE

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

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

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

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

Languages

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

Frameworks/Tools

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

Interests

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