PATRICK YIN

patrickhaoy@berkeley.edu ◇ patrickyin.me ◇ 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: Robot Manipulation and Interaction, Computer Vision, Machine Learning, Deep Learning, Artificial Intelligence, 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

- Improved the computer vision system which powers Ambi's parcel sorting system, AmbiSort.
- 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 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, JAX, Tensorflow, GCP/AWS/Azure, CUDA, OpenMP, Docker, Kubernetes, React
Interests	running, skydiving, windsurfing, basketball, hiking, weightlifting, piano, 3D printing