

Ashwin Balakrishna

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BACKGROUND I am excited about algorithms for data-driven decision-making. I am particularly interested in bridging vision and language foundation models with decision-making algorithms which can actively interact with users and improve based on experience.

WORK EXPERIENCE	Google DeepMind , Senior Research Scientist	2024 - Present
	<i>Building a robot brain with Gemini</i>	
	Toyota Research Institute , Research Scientist	2023 - 2024
	<i>Building a robot foundation model</i>	
	Nuro , Research Scientist	2022 - 2023
	<i>Applying reinforcement learning for motion planning</i>	
	Toyota Research Institute , Research Intern	2021
	<i>Research in reinforcement learning</i>	
	SpaceX , Software Engineering Intern (Avionics)	2017
	<i>Power system analysis automation for Falcon 9 rocket</i>	

EDUCATION	UC Berkeley , Berkeley, CA	Aug 2018 - May 2022
	<i>Ph.D.</i> in Computer Science	GPA: 3.97/4.00
	Thesis: Scalable Supervision for Safe and Efficient Online Robot Learning	

	California Institute of Technology , Pasadena, CA	Sep 2014 - Jun 2018
	<i>Bachelor of Science</i> in Electrical Engineering	GPA: 3.97/4.00

SELECTED PUBLICATIONS Moo Jin Kim*, Karl Pertsch*, Siddharth Karamcheti*, Ted Xiao, **Ashwin Balakrishna**, Suraj Nair et al. OpenVLA: An Open-Source Vision-Language-Action Model. *Preprint* 2024.

Alexander Khazatsky*, Karl Pertsch*, Suraj Nair, **Ashwin Balakrishna**, et al. DROID: A Large-Scale In-The-Wild Robot Manipulation Dataset. *Preprint* 2024.

Albert Wilcox, **Ashwin Balakrishna**, Jules Dedieu, Wyame Benslimane, et al. Monte Carlo Augmented Actor-Critic for Sparse Reward Deep Reinforcement Learning from Suboptimal Demonstrations. *Conference on Neural Information Processing Systems (NeurIPS)* 2022.

Brijen Thananjeyan*, **Ashwin Balakrishna***, Suraj Nair, Michael Luo, Krishnan Srinivasan, et al. Recovery RL: Safe Reinforcement Learning with Learned Recovery Zones. *Robotics and Automation Letters (RA-L) and International Conference on Robotics and Automation (ICRA)* 2021.

AWARDS & HONORS	UC Berkeley Outstanding Graduate Student Instructor Award	2022
	Qualcomm Innovation Fellowship Finalist	2021
	Timothy B. Campbell Innovation Award (Berkeley EECS)	2020-2021
	Apple AI/ML PhD Fellowship Nomination (Berkeley EECS)	2020
	National Science Foundation Graduate Research Fellowship	2018-2021
	Henry Ford II Scholar Award (Top GPA in EE at Caltech)	2017