

# Ashwin Balakrishna

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**BACKGROUND** I am excited about algorithms for data-driven decision making. I am currently a Research Scientist at Google Deepmind working on building foundation models for general purpose robotic manipulation. 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.

<b>WORK EXPERIENCE</b>	<b>Google DeepMind</b> , Senior Research Scientist	2024 - Present
	<b>Toyota Research Institute</b> , Research Scientist	2023 - 2024
	<b>Nuro</b> , Research Scientist	2022 - 2023
	<b>Toyota Research Institute</b> , Research Intern	2021
	<b>SpaceX</b> , Software Engineering Intern (Avionics)	2017

<b>EDUCATION</b>	<b>UC Berkeley</b> , Berkeley, CA	Aug 2018 - May 2022
	<i>Ph.D.</i> in Computer Science	GPA: 3.97/4.00
	Thesis: <a href="#">Scalable Supervision for Safe and Efficient Online Robot Learning</a>	
	<b>California Institute of Technology</b> , 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.

Siddharth Karamcheti, Suraj Nair, **Ashwin Balakrishna**, Percy Liang, Thomas Kollar, and Dorsa Sadigh. Prismatic VLMs: Investigating the Design Space of Visually-Conditioned Language Models. *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.

\* = equal contribution

<b>AWARDS &amp; HONORS</b>	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