

Ashwin Balakrishna

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BACKGROUND I am excited about data-driven decision making, especially for robotic control. I am currently a Research Scientist at Toyota Research Institute working on building foundation models for general purpose robotic manipulation. I am particularly interested in bridging vision and language foundation models with paradigms for robot learning from experience such as imitation and reinforcement learning.

WORK EXPERIENCE

Toyota Research Institute , Research Scientist <i>Large Behavior Model Team</i>	Aug 2023 - Present
Nuro , Senior Research Scientist <i>Machine Learning Research Team</i>	Aug 2022 - Aug 2023
Toyota Research Institute , Research Intern <i>Machine Learning Research Team</i>	Sep - Dec 2021
SpaceX , Software Engineering Intern (Avionics) <i>Power Electronics Software Team</i>	Jun - Sep 2017
Intel , Hardware Engineering Intern <i>Power Electronics Hardware Team</i>	Jun - Sep 2016

EDUCATION

UC Berkeley , Berkeley, CA <i>Ph.D. in Computer Science</i> Thesis: Scalable Supervision for Safe and Efficient Online Robot Learning	Aug 2018 - May 2022 GPA: 3.97/4.00
California Institute of Technology , Pasadena, CA <i>Bachelor of Science in Electrical Engineering</i>	Sep 2014 - Jun 2018 GPA: 3.97/4.00

SELECTED PUBLICATIONS 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, Daniel S. Brown, Ken Goldberg. 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, Minho Hwang, Joseph E. Gonzalez, Julian Ibarz, Chelsea Finn, Ken Goldberg. 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

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