

Ashwin Balakrishna

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Google Scholar: <https://scholar.google.com/citations?user=tfN6V84AAAAJ&hl>

BACKGROUND Broadly speaking, I am excited about working on problems that involve data-driven decision making. I am currently a Senior Research Scientist at Nuro working on using ideas from reinforcement and imitation learning for autonomous delivery.

WORK EXPERIENCE

Nuro , Senior Research Scientist (Machine Learning)	Aug 2022 - Present
Toyota Research Institute , Research Intern (Machine Learning)	Sep - Dec 2021
SpaceX , Software Engineering Intern (Avionics)	Jun - Sep 2017
Intel , Hardware Engineering Intern (Power Electronics)	Jun - Sep 2016

EDUCATION

UC Berkeley , Berkeley, CA <i>Ph.D.</i> in Computer Science Research: Algorithms for Safe and Efficient Online Robot Learning Advisor: Ken Goldberg	Aug 2018 - May 2022
California Institute of Technology , Pasadena, CA <i>Bachelor of Science</i> in Electrical Engineering Advisors: Steven Low and Hyuck Choo	Sep 2014 - Jun 2018

SELECTED PUBLICATIONS

Brijen Thananjeyan*, **Ashwin Balakrishna***, Suraj Nair, Michael Luo, Krishnan Srinivasan, Minh 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.

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***, Ugo Rosolia, Felix Li, Rowan McAllister, Joseph E. Gonzalez, Sergey Levine, Francesco Borrelli, Ken Goldberg, Safety Augmented Value Estimation from Demonstrations (SAVED): Safe Deep Model-Based RL for Sparse Cost Robotic Tasks. *Robotics and Automation Letters (RA-L) and International Conference on Robotics and Automation (ICRA)* 2020.

TEACHING

UC Berkeley , Graduate Student Instructor CS 189: Introduction to Machine Learning	Jan - May 2022
UC Berkeley , Graduate Student Instructor CS 188: Introduction to Artificial Intelligence	Jun - Aug 2021
Caltech , Undergraduate Teaching Assistant EE 111: Signal-Processing Systems and Transforms	Sep - Dec 2017

AWARDS & HONORS

Timothy B. Campbell Innovation Award (Berkeley EECS)	2020-2021
National Science Foundation Graduate Research Fellowship	2018-2021
Henry Ford II Scholar Award (Top GPA in EE at Caltech)	2017