

Education	Massachusetts Institute of Technology Ph.D. in Electrical Engineering and Computer Science MIT Presidential fellowship	September 2017 - Present GPA: 5.00/5.00
	University of California, Berkeley B.S. in Electrical Engineering and Computer Science Graduated with Highest Honors (top 3%)	August 2013 - May 2017 GPA: 3.95/4.00
Experience	Improbable AI Lab (Adviser: Pulkit Agarwal)	September 2019 - Present
	<ul style="list-style-type: none">Working on learning visuomotor priors for solving long horizon tasks in environments with sparse rewardsWorking on learning features for out of distribution visual transfer for supervised learning and reinforcement learning	
	Google Brain Research Internship (Advisers: Ofir Nachum and Sergey Levine)	June 2020 - August 2020
	<ul style="list-style-type: none">Worked on leveraging (unlabelled) offline data to extract skills which allows for improved offline reinforcement learning, online reinforcement learning and few-shot imitation learning.	
	Learning and Intelligent Systems Group (Advisers: Leslie Kaelbling and Josh Tenenbaum)	September 2017 - September 2019
	<ul style="list-style-type: none">Worked on leveraging physics engine for dynamics model learning and controlWorked on curiosity driven exploration for reinforcement learning in environment with sparse rewards	
Publications	Madry Lab (with Aleksander Madry)	March 2019 - September 2019
	<ul style="list-style-type: none">Worked towards understanding the fundamentals of deep learning and on designing adversarially robust deep learning models.Worked on robust style transfer for images and videos	
	Berkeley Artificial Intelligence Research Lab (Advisers: Pieter Abbeel and Sergey Levine)	October 2014 - May 2017
	<ul style="list-style-type: none">Worked on deep learning for state estimationDeveloped model-based sample efficient reinforcement learning algorithm	
	OPAL: Offline Primitive Discovery for Accelerating Offline Reinforcement Learning Anurag Ajay , Aviral Kumar, Pulkit Agrawal, Sergey Levine, Ofir Nachum. Submitted to International Conference on Learning Representations (ICLR), Vienna, Austria, May 2021.	
	Learning Action Priors for Visuomotor transfer Anurag Ajay , Pulkit Agrawal. ICML Inductive biases, invariances and generalization in RL workshop, July 2020.	
Publications	Long-Horizon Prediction and Uncertainty Propagation with Residual Point Contact Learners Nima Fazeli, Anurag Ajay , Alberto Rodriguez. IEEE International Conference on Robotics and Automation (ICRA), Paris, France, May 2020.	
	Learning Skill Hierarchies from Predicate Descriptions and Self-Supervision Tom Silver*, Rohan Chitnis*, Anurag Ajay , Josh Tenenbaum, Leslie Pack Kaelbling. AAAI Workshop on Generalization in Planning (GenPlan), 2020.	
	Learning to Navigate Endoscopic Capsule Robots Mehmet Turan, Yasin Almalioglu, Hunter B Gilbert, Faisal Mahmood, Nicholas J Durr, Helder Araujo, Alp Eren Sar, Anurag Ajay , Metin Sitti. Robotics and Automation Letters (RA-L), 2019.	

Combining Physical Simulators and Object-Based Networks for Control

Anurag Ajay, Maria Bauza, Jiajun Wu, Nima Fazeli, Joshua B. Tenenbaum, Alberto Rodriguez, Leslie P. Kaelbling.

IEEE International Conference on Robotics and Automation (ICRA), Montreal, Canada, May 2019.

Augmenting Physical Simulators with Stochastic Neural Networks: Case Study of Planar Pushing and Bouncing

Anurag Ajay, Jiajun Wu, Nima Fazeli, Maria Bauza, Leslie P. Kaelbling, Joshua B. Tenenbaum, Alberto Rodriguez.

IEEE International Conference on Intelligent Robots and Systems (IROS), Madrid, Spain, October 2018.

Best Paper for Cognitive Robotics

Reset-Free Guided Policy Search: Efficient Deep Reinforcement Learning with Stochastic Initial States

Anurag Ajay*, William Montgomery*, Chelsea Finn, Pieter Abbeel, Sergey Levine. IEEE International Conference on Robotics and Automation (ICRA), Singapore, May 2017.

Backprop KF: Learning Discriminative Deterministic State Estimators

Tuomas Haarnoja, **Anurag Ajay**, Sergey Levine, Pieter Abbeel.

Neural Information Processing Systems (NIPS), Barcelona, Spain, December 2016.

Technical Skills

Python, Matlab, ROS, Caffe, Tensorflow, Pytorch, Spark, Java