## Priya Sundaresan

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ACADEMIC BACKGROUND	Stanford University, Stanford, CA2021Ph.D. in Computer Science, Artificial IntelligenceAdvisors: Dorsa Sadigh, Jeannette Bohg	- 2026 (expected)		
	<ul> <li>University of California, Berkeley, Berkeley, CA</li> <li>M.S. in Electrical Engineering and Computer Science (2020-2021)</li> <li>Advisor: Ken Goldberg, Joseph Gonzalez</li> <li>Master's Thesis: Robotic Untangling and Disentangling of Cables v</li> <li>ulation and Recovery Strategies</li> <li>B.S. in Electrical Engineering and Computer Science (2017-2020)</li> </ul>			
EXPERIENCE	Intrinsic, Mountain View, CA PhD Resident Summer internship at Intrinsic, a robotics software and AI comp Collaborated with Google DeepMind on imitation learning from har			
	<b>Stanford Artificial Intelligence Lab</b> , PhD Student 09/2021 - Present Research in robotic manipulation and perception for collaborative and assistive real-world settings			
	Amazon Robotics, North Reading, MA Part-Time Applied Scientist Contractor Advanced R&D Robotics Intern Research on vision-based grasp planners for warehouse automation	9/2020 - 12/2021 5/2020 - 8/2020		
	<b>UC Berkeley AUTOLAB</b> , Undergraduate Researcher Advised by Ken Goldberg Developed perception-driven algorithms for household and surgical	8/2018 - 5/2021 l robots		
	UC Berkeley Department of EECS, Teaching Assistant 1/2019 - 5/2019 Discussion TA for introductory EE course (EE 16A) on circuit design/linear algebra			
PUBLICATIONS	UBLICATIONS [13] Priya Sundaresan, Suneel Belkhale, Dorsa Sadigh, Jeannette Bo Keypoint-Conditioned Policies for Semantic Manipulation. Conference Learning (CoRL), 2023.			
	[12] <b>Priya Sundaresan</b> , Jiajun Wu, Dorsa Sadigh. Learning Sequential Acquisition Policies for Robot-Assisted Feeding. <i>Conference on Robot Learning (CoRL), 2023.</i>			
	[11] Lorenzo Shaikewitz <sup>*</sup> , Yilin Wu <sup>*</sup> , Suneel Belkhale <sup>*</sup> , Jennifer Grannen, <b>Priya Sundaresan</b> , Dorsa Sadigh. In-Mouth Robotic Bite Transfer with Visual and Haptic Sensing. <i>International Conference on Robotics and Automation (ICRA), 2023.</i>			
	[10] <b>Priya Sundaresan</b> , Suneel Belkhale, Dorsa Sadigh. Learning Visuo-Haptic Skewering Strategies for Robot-Assisted Feeding. <i>Conference on Robot Learning (CoRL), 2022.</i> <b>Oral Presentation.</b>			
	oud: Real-to-Sim f Deformable Ob- (IROS), 2022.			

[8] Rika Antonova, Jingyun Yang, **Priya Sundaresan**, Dieter Fox, Fabio Ramos, Jeannette Bohg. A Bayesian Treatment of Real-to-Sim for Deformable Object Manipulation. *IEEE Robotics and Automation Letters (RA-L), 2022.* 

 [7] Vainavi Viswanath\*, Jennifer Grannen\*, Priya Sundaresan\*, Brijen Thananjeyan, Ashwin Balakrishna, Ellen Novoseller, Jeffrey Ichnowski, Michael Laskey, Joseph E. Gonzalez, Ken Goldberg. Disentangling Dense Multi-Cable Knots. International Conference on Intelligent Robots and Systems (IROS), 2021.

[6] **Priya Sundaresan\***, Jennifer Grannen\*, Brijen Thananjeyan, Ashwin Balakrishna, Jeffrey Ichnowski, Ellen Novoseller, Minho Hwang, Michael Laskey, Joseph E. Gonzalez, Ken Goldberg. Untangling Dense Non-Planar Knots by Learning Manipulation Features and Recovery Policies. *Robotics: Science and Systems (RSS)*, 2021.

[5] Aditya Ganapathi, **Priya Sundaresan**, Brijen Thananjeyan, Ashwin Balakrishna, Daniel Seita, Jennifer Grannen, Minho Hwang, Ryan Hoque, Joseph E. Gonzalez, Nawid Jamali, Katsu Yamane, Soshi Iba, Ken Goldberg. Learning Dense Visual Correspondences in Simulation to Smooth and Fold Real Fabrics. *International Conference on Robotics and Automation (ICRA)*, 2021.

[4] **Priya Sundaresan\***, Aditya Ganapathi\*, Brijen Thananjeyan, Ashwin Balakrishna, Daniel Seita, Ryan Hoque, Joseph Gonzalez, Ken Goldberg. MMGSD: Multi-Modal Gaussian Shape Descriptors for Correspondence Matching in 1D and 2D Deformable Objects. *International Conference on Intelligent Robots and Systems* (*IROS*), Workshop on Robotic Manipulation of Deformable Objects, 2020.

[3] Jennifer Grannen<sup>\*</sup>, **Priya Sundaresan<sup>\*</sup>**, Brijen Thananjeyan, Jeffrey Ichnowski, Ashwin Balakrishna, Minho Hwang, Vainavi Viswanath, Michael Laskey, Joseph E. Gonzalez, Ken Goldberg. Untangling Dense Knots by Learning Task-Relevant Keypoints. *Conference on Robot Learning (CoRL)*, 2020. **Oral Presentation**.

[2] **Priya Sundaresan**, Jennifer Grannen, Brijen Thananjeyan, Ashwin Balakrishna, Michael Laskey, Kevin Stone, Joseph E. Gonzalez, Ken Goldberg. Learning Rope Manipulation Policies Using Dense Object Descriptors Trained on Synthetic Depth Data. *International Conference on Robotics and Automation (ICRA)*, 2020.

[1] **Priya Sundaresan**, Brijen Thananjeyan, Johnathan Chiu, Danyal Fer, Ken Goldberg. Automated Extraction of Surgical Needles from Tissue Phantoms. *Conference on Automation Science and Engineering (CASE)*, 2019.

AWARDS	FANUC Student Fellowship	2022
	National Science Foundation Graduate Research Fellowship	2021
	Timothy B. Campbell Innovation Award, UC Berkeley EECS	2021
	James H. Eaton Memorial Scholarship, UC Berkeley EECS	2020
	Cal Alumni Association Leadership Award Scholarship	2019
OUTREACH	UC Berkeley AUTOLAB	2018-2021
	Despend and presented rebet demog to presenting students at Col day and lab wight	

Prepared and presented robot demos to prospective students at Cal day and lab visit days for local middle/high school students

**Bioengineering Honor Society**, Webmaster/Projects Chair 2018-2019 Prototyped hardware demos to showcase at local middle/high schools and built club website from scratch

Volunteered at BioEngineering High School Competition (BioEHSC), a student-run science fair where UC Berkeley undergraduates mentor local high school students on a semester-long research project

ACADEMICExternal Reviewer for Conferences, JournalsSERVICEConference on Robot Learning (CoRL): 2023<br/>International Conference on Robotics and Automation (ICRA): 2023<br/>Robotics and Automation Letters (RA-L): 2022.<br/>International Conference on Intelligent Robots and Systems (IROS): 2022<br/>International Conference on Robotics and Automation (ICRA): 2021