

Jennifer Grannen

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- EDUCATION**
- Stanford University**, Stanford, CA 2021–
Ph.D. in Computer Science, Artificial Intelligence
Advisor: Dorsa Sadigh
- University of California, Berkeley**, Berkeley, CA 2021
B.A. in Computer Science GPA: 3.9/4.0
- EXPERIENCE**
- Stanford Artificial Intelligence Lab**, Ph.D. Student 2021–
Advised by Dorsa Sadigh
Developing bimanual robotic food manipulation methods for assistive feeding.
- Toyota Research Institute**, Research Intern 2021
Advised by Eric Cousineau, Russ Tedrake
Designed systems for robotic manipulation of 3D deformable objects, including dough.
- Berkeley Artificial Intelligence Research**, Undergraduate Researcher 2019–2021
Advised by Ken Goldberg
Developed interpretable representations for perception-driven robotic manipulation of 1D and 2D deformable objects.
- Goldman Sachs**, Strategy Summer Analyst 2019
Added features for new products and risk measures on front facing AI-based application to decrease quote latency.
- PUBLICATIONS**
- [5] Vainavi Viswanath*, **Jennifer Grannen***, Priya Sundaesan*, 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.
- [4] Priya Sundaesan*, **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.
- [3] Aditya Ganapathi, Priya Sundaesan, 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.
- [2] **Jennifer Grannen***, Priya Sundaesan*, 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**.
- [1] Priya Sundaesan, **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.

AWARDS	National Science Foundation Graduate Research Fellowship	2021
	UC Berkeley EECS Honors Degree	2021
	Timothy B. Campbell Innovation Award, UC Berkeley EECS	2021
INVITED TALKS	Learning Robot Manipulation of 1D, 2D, and 3D Deformable Structures <i>(with Ken Goldberg and Priya Sundaesan)</i>	
	RSS 2021 Workshop on Deformable Object Simulation in Robotics	2021
TEACHING & OUTREACH	UC Berkeley EECS Department , Teaching Assistant	2020–2021
	CS 188: Introduction to Artificial Intelligence	
	UC Berkeley AUTOLAB , Outreach Lead	2020–2021
	Organized workshops to present robot demos to visiting middle and high school students.	
TEACHING & OUTREACH	UC Berkeley Society of Women Engineers , Instructor	2019–2021
	Lead weekly classes teaching middle schoolers Scratch and Python.	
TEACHING & OUTREACH	Expanding Your Horizons, UC Berkeley , Undergraduate Mentor	2017–2020
	Annual Intro to STEM Conference for middle school girls.	
PROFESSIONAL SERVICE	Paper Reviewing: - Robotics and Automation Letters (RA-L): 2022. - Neural Information Processing Systems (NeurIPS): 2021. - International Conference on Robotics and Automation (ICRA): 2021.	