Arjun Gupta

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EDUCATION

University of Illinois at Urbana-Champaign PhD in Electrical and Computer Engineering M.S. in Electrical and Computer Engineering B.S. in Computer Engineering • Graduated with Highest Honors (GPA: 3.97)	Urbana, IL Jan. 2021 - Present Jan. 2021 - Dec. 2022 Aug. 2017 - Dec. 2020
SELECTED PUBLICATIONS	
[1] Opening Articulated Objects in the Real World Arjun Gupta, Michelle Zhang*, Rishik Sathua*, Saurabh Gupta	Under Review [webpage]
[2] A Training-Free Framework for Precise Mobile Manipulation of Small Everyday Ob Arjun Gupta, Rishik Sathua, Saurabh Gupta	ojects Under Review [webpage]
[3] Estimating Perceptual Uncertainty to Predict Robust Motion Plans Arjun Gupta , Michelle Zhang, Saurabh Gupta	IROS 2024 [webpage]
[4] Mitigating Perspective Distortion-induced Shape Ambiguity in Image Crops Aditya Prakash, Arjun Gupta , Saurabh Gupta	ECCV 2024 [webpage]
[5] Predicting Motion Plans for Articulating Everyday Objects Arjun Gupta , Max E. Shepherd, Saurabh Gupta	ICRA 2023 [webpage]
[6] Learning Value Functions from Undirected State-only Experience Matthew Chang*, Arjun Gupta *, Saurabh Gupta	ICLR 2022 [webpage]
[7] Semantic Visual Navigation by Watching YouTube Videos Matthew Chang, Arjun Gupta , Saurabh Gupta	NeurIPS 2020 [webpage]
RESEARCH EXPERIENCE	
 University of Illinois at Urbana-Champaign PhD Student — Advisor: Prof. Saurabh Gupta Real World Robotics. Developed end-to-end mobile manipulation pipelines for real rob perception, navigation, and manipulation) which generalize to in-the-wild settings across a Computer Vision. Trained state-of-the-art computer vision models for improving robus Motion Planning. Developed a TrajOpt-based approach which outperforms existing pla Sim2Real RL. Designed sim2real reinforcement learning approaches for navigation via learning 	10+ buildings [1, 2]. tness in 3D vision [3, 4]. unning methods [5].
Hello Robot Inc.	Martinez, CA
Research Intern — Manager: Dr. Chris Paxton • Developed general-purpose grasping functionality for Stretch AI using sim2real techniques.	Oct. 2024 - Dec. 2024 [webpage]
Awards and Honors	
Andrew T. Yang Research and Entrepreneurship Award * Full graduate funding for two years. Daniel W. and Carol A. Dobberpuhl Award ¹	2022 - 2024 2020
Omron Electrical Engineering Scholarship ²	2019, 2020
Ackmann Family Scholarship ¹	2018
¹ Awarded to one student out of a pool of 1000+, ² Awarded to two students out of a pool of 1000	+
Skills	

Software: PyTorch, Keras, Tensorflow, NumPy, SciPy, OpenAI Gym, Git.