## 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 <b>Arjun Gupta</b> , Michelle Zhang*, Rishik Sathua*, Saurabh Gupta	$\begin{array}{c} \text{Under Review} \\ \text{[webpage]} \end{array}$
[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 <b>Arjun Gupta</b> , Michelle Zhang, Saurabh Gupta	IROS 2024 [webpage]
[4] Mitigating Perspective Distortion-induced Shape Ambiguity in Image Crops Aditya Prakash, <b>Arjun Gupta</b> , Saurabh Gupta	ECCV 2024 [webpage]
[5] Predicting Motion Plans for Articulating Everyday Objects <b>Arjun Gupta</b> , Max E. Shepherd, Saurabh Gupta	ICRA 2023 [webpage]
[6] Learning Value Functions from Undirected State-only Experience Matthew Chang*, <b>Arjun Gupta</b> *, Saurabh Gupta	ICLR 2022 [webpage]
[7] Semantic Visual Navigation by Watching YouTube Videos Matthew Chang, <b>Arjun Gupta</b> , Saurabh Gupta	NeurIPS 2020 [webpage]
RESEARCH EXPERIENCE	
<ul> <li>University of Illinois at Urbana-Champaign</li> <li>PhD Student</li> <li>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 1</li> </ul>	0+ buildings $[1, 2].$
<ul> <li>Computer Vision. Trained state-of-the-art computer vision models for improving robust</li> <li>Motion Planning. Developed a TrajOpt-based approach which outperforms existing pla</li> <li>Sim2Real RL. Designed sim2real reinforcement learning approaches for navigation via learning approaches.</li> </ul>	nning methods [5].
Hello Robot Inc.	Martinez, CA
Research Intern • 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.	2022 - 2024
Daniel W. and Carol A. Dobberpuhl Award <sup>1</sup>	2020
Omron Electrical Engineering Scholarship <sup>2</sup>	2019, 2020
Ackmann Family Scholarship <sup>1</sup> <sup>1</sup> Awarded to one student out of a pool of 1000+, <sup>2</sup> Awarded to two students out of a pool of 1000-	2018
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SKILLS  Programming: Python, C++/C, ROS, Matlab.	

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