Arjun Gupta

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EDUCATION

University of Illinois at Urbana-Champaign   Urbana, IL
PhD in Electrical and Computer Engineering   *Jan. 2023 - Present*
M.S. in Electrical and Computer Engineering   *Jan. 2021 - Dec. 2022*
B.S. in Computer Engineering   *Aug. 2017 - Dec. 2020*
- Graduated with Highest Honors (GPA: 3.97)

SELECTED PUBLICATIONS

1. Opening Cabinets and Drawers in the Real World using a Commodity Mobile Manipulator   [webpage]
   Arjun Gupta*, Michelle Zhang*, Rishik Sathua, Saurabh Gupta
   Workshop on Semantics for Robotics at Robotics: Science and Systems (RSS), 2024 (Spotlight talk)
   Under Review at RA-L.

2. Servoing with Large Vision Models for Stylized Manipulation of Everyday Little Things
   Arjun Gupta, Rishik Sathua, Saurabh Gupta
   Under Review at ICRA 2025.

3. Estimating Perceptual Uncertainty to Predict Robust Motion Plans   [webpage]
   Arjun Gupta, Michelle Zhang, Saurabh Gupta
   International Conference on Intelligent Robots and Systems (IROS), 2024

4. Mitigating Perspective Distortion-induced Shape Ambiguity in Image Crops   [webpage]
   Aditya Prakash, **Arjun Gupta**, Saurabh Gupta
   European Conference on Computer Vision (ECCV), 2024

5. Predicting Motion Plans for Articulating Everyday Objects   [webpage]
   Arjun Gupta, Max E. Shepherd, Saurabh Gupta
   International Conference on Robotics and Automation (ICRA), 2023

6. Learning Value Functions from Undirected State-only Experience   [webpage]
   Matthew Chang*, **Arjun Gupta***, Saurabh Gupta
   International Conference on Learning Representations (ICLR), 2022

7. Semantic Visual Navigation by Watching YouTube Videos   [webpage]
   Matthew Chang, **Arjun Gupta**, Saurabh Gupta
   Neural Information Processing Systems (NeurIPS), 2020

AWARDS AND HONORS

Andrew T. Yang Research and Entrepreneurship Award	2022 - 2024

- Full graduate funding for two years.

Henry O. Koehler Merit Scholarship	2020
Daniel W. and Carol A. Dobberpuhl Award[1]	2020
Omron Electrical Engineering Scholarship[2]	2019, 2020
Fiddler Innovation Undergraduate Student Fellowship	2019
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

Programming: Python, C++/C, ROS, Matlab.
Software: PyTorch, Keras, Tensorflow, NumPy, SciPy, OpenAI Gym, Git.