

Sahit Chintalapudi

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EDUCATION

Massachusetts Institute of Technology

Ph.D. Candidate in Electrical Engineering and Computer Science

Cambridge, MA

Sep. 2020 – Present

- Advisors: Leslie Kaelbling, Tomás Lozano-Pérez. GPA: 4.8/5.0
- Coursework: Algorithms for Inference, Underactuated Robotics, Machine Learning, Optimization Methods

Georgia Institute of Technology

BS in Computer Science, Highest Honors

Atlanta, GA

Aug. 2016 – Dec. 2019

- GPA: 3.94/4.0
- Coursework: Interactive Robot Learning, Robotics and Perception, Machine Learning, Advanced Algorithms, Honors Probability and Statistics, Computer Vision

PUBLICATIONS

TiPToP: A Modular Open-Vocabulary Planning System for Robotic Manipulation

arXiv 2026

- William Shen*, Nishanth Kumar*, *Sahit Chintalapudi*, Jie Wang, Christopher Watson, Edward Hu, Jing Cao, Dinesh Jayaraman, Leslie Pack Kaelbling, Tomás Lozano-Pérez

Bi-Level Belief Space Search for Compliant Part Mating Under Uncertainty

WAFR 2024

- *Sahit Chintalapudi*, Leslie Kaelbling, Tomás Lozano-Pérez

Effective Footstep Planning using Homotopy-class Guidance

AIJ 2020

- Vinitha Ranganeni, *Sahit Chintalapudi*, Oren Salzman, Maxim Likhachev

Online Motion Planning over Multiple Homotopy Classes with Gaussian Process Inference

IROS 2019

- Keshav Kolar*, *Sahit Chintalapudi**, Byron Boots, Mustafa Mukadam

EXPERIENCE

Robotic Manipulation Teaching Assistant

MIT

Sep. 2025 – Dec. 2025

Boston, MA

- Designed homework problems and led office hours for 200 students covering perception, planning, and control

Robot Learning Intern

Autodesk

May 2025 – Aug. 2025

San Francisco, CA

- Trained PPO (online) and Decision Transformer (offline) policies for 100 low-clearance robotic assembly tasks
- Studied how Mixture-of-Expert layers affect generalization in 10M-parameter Decision Transformers
- Deployed Decision Transformer policies trained in IsaacLab on a UR-10e robot via sim-to-real transfer

Robotics Research Engineering Intern

DeepMind

Mar. 2020 – Aug. 2020

London, UK

- Experimented with curricula generation methods for RL agents in the context of autonomous stacking
- Developed internal infrastructure for collecting human demonstrations of manipulation in simulated environments

TECHNICAL SKILLS

Languages: Python, C++, MATLAB

Tools: Drake, IsaacLab, Mujoco, PyTorch, L^AT_EX, ROS, OpenCV

SERVICE

Reviewer: *RA-L, CoRL, ICRA*

Graduate Application Assistance Program Mentor 2020–2023: Mentored 4 students, providing feedback and advice on graduate school applications