

# Dhruv Metha Ramesh

dhruv.metha@rutgers.edu • +1 (732) 799-5136 • <https://dhruvmetha.github.io> • Github: dhruvmetha

## EDUCATION

**Rutgers University**, New Brunswick, NJ, USA

Ph.D. in Computer Science

2022 – Present

- Advisor: Abdeslam Boularias and Kostas E. Bekris
- Cumulative GPA: 3.92 / 4.0

Master of Science (M.S.) in Computer Science

2021 – 2022

- Transferred to Ph.D.

**B.M.S College of Engineering**, Bengaluru, India

Bachelor of Engineering (B.E.) in Computer Science & Engineering

2015 – 2019

- Cumulative GPA: 8.8 / 10.0

## WORK

### EXPERIENCE

**Computer Science Dept, Rutgers University**, New Brunswick NJ, USA

2022 – Present

Instructor / Graduate Teaching Assistant

- CS562: Advanced Robotics
- CS440/520: Introduction to Artificial Intelligence

**Leanovate Solutions**, Bengaluru, India

2018 – 2020

Software Engineer

- Indoor Navigation System: Developed a Bluetooth-based mobile app with occupancy detection for indoor navigation in commercial spaces.
- Front-End Lead: Led ReactJS development for a space management platform, enhancing room booking layouts, converting modules to PWA, and standardizing code practices.
- Client Presentations: Presented product releases to clients and stakeholders.

## PUBLICATIONS

### JOURNAL AND CONFERENCE PAPERS

- [1] [Dhruv Metha Ramesh](#), Aravind Sivaramakrishnan, Shreesh Keskar, Kostas E. Bekris, Jingjin Yu, Abdeslam Boularias, “PROBE: Proprioceptive Obstacle Detection and Estimation while Navigating in Clutter” in *IEEE International Conference on Robotics and Automation (ICRA)*, 2025.
- [2] Isidoros Maroungkas\*, [Dhruv Metha Ramesh\\*](#), Joe H. Doerr, Edgar Granados, Aravind Sivaramakrishnan, Abdeslam Boularias, Kostas E. Bekris, “Integrating Model-based Control and RL for Sim2Real Transfer of Tight Insertion Policies” in *IEEE International Conference on Robotics and Automation (ICRA)*, 2025.
- [3] Osher Azulay, [Dhruv Metha Ramesh](#), Nimrod Curtis, and Avishai Sintov, “Visuotactile-Based Learning for Insertion with Compliant Hands” in *Robotics and Automation Letters (RA-L)*, 2025
- [4] Haonan Chang, [Dhruv Metha Ramesh](#), Shijie Geng, Yuqiu Gan, Abdeslam Boularias, “Mono-STAR: Mono-camera Scene-level Tracking and Reconstruction”, in *IEEE International Conference on Robotics and Automation (ICRA)*, 2022.

### UNDER REVIEW

- [5] Aravind Sivaramakrishnan, Sumanth Tangirala, [Dhruv Metha Ramesh](#), Edgar Granados, and Kostas E. Bekris, “KRAFT: Sampling-Based Kinodynamic Replanning and Feedback Control over Approximate, Identified Models of Vehicular Systems”.

## RELEVANT SKILLS

Python, C++, PyTorch, Robot Operating System (ROS), MuJoCo, IsaacGym, Stable Baselines3

## ROBOT SYSTEMS

Unitree Go1, KUKA LBR iiwa14, MuSHR

## CONFERENCE AND JOURNAL REVIEWING

- *Robotics: Science and Systems (R:SS)* - 2023-2024
- *IEEE International Conference on Robotics and Automation (ICRA)* - 2022-2025
- *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)* - 2022-2023
- *Conference on Robot Learning (CoRL)* - 2024
- *Conference on Neural Information Processing Systems (NeurIPS)* - 2024
- *IEEE Robotics and Automation Letters (RA-L)*