

# Dhruv Metha Ramesh

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EDUCATION	<b>Rutgers University</b> , 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>B.M.S College of Engineering</b> , Bengaluru, India	
	Bachelor of Engineering (B.E.) in Computer Science & Engineering	2015 – 2019
	▪ Cumulative GPA: 8.8 / 10.0	
WORK EXPERIENCE	<b>Computer Science Dept, Rutgers University</b> , New Brunswick NJ, USA	2022 – Present
	Instructor / Graduate Teaching Assistant	
	▪ CS562: Advanced Robotics	
	▪ CS440/520: Introduction to Artificial Intelligence	
	<b>Leanovate Solutions</b> , 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	<b>JOURNAL AND CONFERENCE PAPERS</b>	
	[1] <a href="#">Dhruv Metha Ramesh</a> , Aravind Sivaramakrishnan, Shreesh Keskar, Kostas E. Bekris, Jingjin Yu, Abdeslam Boularias, “PROBE: Proprioceptive Obstacle Detection and Estimation while Navigating in Clutter” in <i>IEEE International Conference on Robotics and Automation (ICRA)</i> , 2025.	
	[2] Isidoros Maroungkas*, <a href="#">Dhruv Metha Ramesh*</a> , 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 <i>IEEE International Conference on Robotics and Automation (ICRA)</i> , 2025.	
	[3] Haonan Chang, <a href="#">Dhruv Metha Ramesh</a> , Shijie Geng, Yuqiu Gan, Abdeslam Boularias, “Mono-STAR: Mono-camera Scene-level Tracking and Reconstruction”, in <i>IEEE International Conference on Robotics and Automation (ICRA)</i> , 2022.	
	<b>UNDER REVIEW</b>	
	[4] Aravind Sivaramakrishnan, Sumanth Tangirala, <a href="#">Dhruv Metha Ramesh</a> , Edgar Granados, and Kostas E. Bekris, “KRAFT: Sampling-Based Kinodynamic Replanning and Feedback Control over Approximate, Identified Models of Vehicular Systems”.	
	[5] Osher Azulay, <a href="#">Dhruv Metha Ramesh</a> , Nimrod Curtis, and Avishai Sintov, “Visuotactile-Based Learning for Insertion with Compliant Hands ”.	
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)*