

Dr. Sri Harsha Turlapati

CONTACT	8.03F, SUSS 463 Clementi Rd Singapore 599494	<i>Voice:</i> +65 8306 9440 <i>E-mail:</i> sriharsha@suss.edu.sg <i>Website</i>
RESEARCH STATEMENT	My current research goal is to produce useful data from haptic demonstrations for learning algorithms in contact rich manipulation tasks. So far, we have used two modalities to do this - (i) sensorized tools and (ii) bilateral tele-operated robots.	
RESEARCH INTERESTS	Learning from haptic demonstrations, Mixed2Real frameworks, Geometry, Sim2Real	
SOME NICE ROBOTS	Kinova Gen3, HAPTION Virtuose 6D TAO TREX, HEBI SEA, Kuka iiwa, PhaseSpace X2E Motion capture, PTI Pheonix Visualeyez, ATI Mini40, Quanser QPIDe	
SELECT PUBLICATIONS	Sensorized gripper for human demonstrations (Best paper award) <i>SIMM 2024</i> Tracing curves in the plane: Geometric-invariant learning from human demonstrations <i>PLoS ONE</i> Towards Haptic-Based Dual-Arm Manipulation <i>MDPI</i> Read more of my research at Google Scholar	
INVENTIONS	NTUitive TD (2025-275) Fast tool changing add-ons for standard robotic gripper based on snap-fit mechanisms NTUitive TD (2025-273) Cable-Driven Haptic Master Tool With Identical Kinematic Design To RMIS Tools U.S. Patent No. 12,220,814 Master-Slave Robot Arm Control System and Control Method Issued: February 11, 2025 • Assignees: Delta Electronics Int'l Singapore Pte Ltd; Nanyang Technological University • Link: US12220814B2 NTUitive TD (2024-462) Adaptive Robotic Wrist for Versatile Object Handling NTUitive TD (2022-273) Identification of intrinsic friction and torque ripple for a robotic joint with integrated torque sensors	

EDUCATION	NTU Singapore PhD, Mechanical and Aerospace Engineering, 2022 • Topic: Towards haptic intelligence in robots by learning from demonstration • Advisor: Domenico Campolo	
EXPERIENCE	NTU Singapore <i>Research Fellow</i> <i>Research Associate</i> <i>Teaching Assistant,</i> MA2009 (Introduction to Electrical Circuits & Electronic Devices) MA2011 (MECHATRONICS SYSTEMS INTERFACING)	Aug 2022-present Mar-Aug 2022 2022-25 2022-25
	IIIT Hyderabad, INDIA <i>Research Assistant</i> Includes current M.S research, coursework and research/consulting projects. <i>Teaching Assistant</i> Head Teaching Assistant, Digital Logic and Processors	 2015 - 2017 2016
AWARDS	TEDxNTU <i>Nanyang award for Teamwork</i> <i>Mr and Mrs Kwok Chin Yan Award for Student Initiative Award</i> Multidisciplinary Team “MDT” project funding - SGD 10,000 <i>RoboKitchen : Robotic Kitchenware with Efficient Tools & Collaborative Human Engagement</i>	 2019 2019 2025
VOLUNTEERING	<i>Committee member, Tan Seow Chiap - POWERS Scholarship</i> <i>Research Fellow representative, SWE@NTU</i> <i>Advisor, TEDxNTU</i> <i>Chairman, TEDxNTU</i>	2024-25 2023-24 2021 2020