VENKATESH PATTABIRAMAN

+1(646) 923-3310 ⋄ **Mail:** venkatesh.p@nyu.edu ⋄ **Homepage:** venkyp.com

EDUCATION

New York University (NYU)	Fall 2022 - Summer 2024
M.S. in Robotics	Advisor: Prof. Lerrel Pinto
Indian Institute of Technology, Indore (IIT-I)	Jul 2018 - May 2022
B.Tech. in Mechanical Engineering	Advisor: Prof. I.A. Palani

PUBLICATIONS

4) V. Pattabiraman*, Y. Cao, S. Haldar, T. Hellebrekers, L. Pinto and R. Bhirangi* "Learning Precise, Contact-Rich Manipulation through Uncalibrated Tactile Skins" under review in *International Conference on Robotics and Automation (ICRA)* Atlanta, USA, May 2025   arXiv | Website

3) R. Bhirangi, V. Pattabiraman, E. Erciyes, Y. Cao, T. Hellebrekers and L. Pinto "AnySkin: Plug-and-play Skin Sensing for Robotic Touch" under review in *International Conference on Robotics and Automation (ICRA)* Atlanta, USA, May 2025   arXiv | Website

2) NX. Bhattasali, V. Pattabiraman, G. Lindsay, and L. Pinto "Neural Circuit Architectural Priors for Quadruped Locomotion," under review in *International Conference on Learning Representations (ICLR)* Singapore EXPO, April 2025   arXiv | Website

1) R. Bhirangi, C. Wang, V. Pattabiraman, C. Majidi, A. Gupta, T. Hellebrekers and L. Pinto "Hierarchical State Space Models for Continuous Sequence-to-Sequence Modelling," published in *International Conference on Machine Learning (ICML)* Vienna, Austria, July 2024   arXiv | Website

EXPERIENCE

Graduate Research Assistant at General Purpose Robotics and AI Lab (GRAIL) | CILVR Group, NYU
Advised by Prof. Lerrel Pinto   Jan 2023 - ongoing*

Research Themes: Multimodal Representation Learning, Tactile Sensing, Priors to improve exploration

Undergraduate Researcher at Mechatronics Lab | Indian Institute of Technology (IIT), Indore
Advised by Prof. I. A. Palani   Oct 2021 - Mar 2022

Research Themes: Soft Robotics, Bio-mimicry, Dexterous Manipulation, Smart memory actuators

Software Intern @ FEV Group, Intelligent Mobility & Software   Jun 2021 - Aug 2021

Focus: Range Polygon for Autonomous Vehicles & Quality Analysis & Control of Electric Automobiles.

Research Associate Intern @ Simpson & Co., Advanced Engineering   Dec 2020 - Jan 2021

Focus: Optimization of Electric Weeder, using Taguchi Methods

TECHNICAL SKILLS

Programming	C/C++, Python, MATLAB-Simulink, ROS
Frameworks	MuJoCo, DeepMind Control Suite, JAX, PyTorch, Tensorflow
Mechatronics	SolidWorks, Ansys, COMSOL, Arduino & Raspberry Pi

PROFESSIONAL SERVICE

Teaching	CSCI-UA 480-072: Introduction to Robot Intelligence, NYU
Mentorship	MS Students: Yifeng; UG Students: Zifan; High School Students: Ella, Alex	NYU GRAIL
Reviewer	Conferences: IEEE RA-L 2025; Workshops: CoRoboLearn CORL 2024, WTP NeurIPS 2024

SELECTED AWARDS & SCHOLARSHIPS

JEE Mains & JEE Advanced, IIT, **2018**	Ranked Among Top 0.4 % in India
KVPY Scholar, IISc, **2017**	Ranked Among Top 0.5% in India
NTSE State Scholarship, 2015	Ranked 3 in State (Karnataka)