Venkatesh Pattabiraman

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EDUCATION

New York University (NYU) Sep 2022 - May 2024
M.S. in Robotics
Advisor: Prof. Lerrel Pinto
Thesis: Continuous Sequence Prediction & Tactile Sensing

Indian Institute of Technology, Indore (IIT-I) Jul 2018 - May 2022
B.Tech. in Mechanical Engineering
Advisor: Prof. I.A. Palani
Thesis: Dexterous Hand with Artificial SMA Muscles

PUBLICATIONS

6) V. Pattabiraman, Z. Huang, D. Panozzo, D. Zorin, L. Pinto and R. Bhirangi "eFlesh: Highly customizable Magnetic Touch Sensing using Cut-Cell Microstructures" under review in *IEEE T-RO* arXiv | Website

5) A. Adeniji*, Z. Chen*, V. Liu, V. Pattabiraman, S. Haldar, R. Bhirangi and Lerrel Pinto "Feel The Force: Contact-Driven Learning from Humans" under review in *IEEE T-RO* arXiv | Website

4) V. Pattabiraman*, Y. Cao, S. Haldar, L. Pinto and R. Bhirangi* "Learning Precise, Contact-Rich Manipulation through Uncalibrated Tactile Skins" *Best Paper Award at ViTac, ICRA 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" published in *International Conference on Robotics and Automation (ICRA)* Atlanta, USA, May 2025 *Best Paper Award at Hardware Intelligence, RSS 2025* arXiv | Website

2) NX. Bhattasali, V. Pattabiraman, L. Pinto, and G. Lindsay "Neural Circuit Architectural Priors for Quadruped Locomotion" published in *Computational and Systems Neuroscience (COSYNE)* *Spotlight (3.5%) at NAISyS 2024* 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 Modeling" published in *International Conference on Machine Learning (ICML)* Vienna, Austria, July 2024 *Best Paper Award at NGSM* arXiv | Website

PRIOR RESEARCH

Graduate Research Assistant at General Purpose Robotics and AI Lab (GRAIL) | CILVR Group, NYU
Advised by Prof. Lerrel Pinto Jan 2023 - Jun 2025

Research Themes: Robot Learning, Cross-Modal Representation Learning, Tactile Sensing, Priors for Exploration

Research Scholar at Mechanics & Computation Lab | Indian Institute of Science (IISc), Bangalore
Advised by Prof. Ramsharan Rangarajan Jun 2022 - Aug 2022

Research Themes: Flexible Robotics, 3D Printing in Space

TECHNICAL SKILLS

Programming	Python, C/C++, MATLAB-Simulink
Frameworks & Mechatronics	PyTorch, MuJoCo, DeepMind Control Suite, ROS, SolidWorks, COMSOL

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	IEEE RA-L 2025; CoRoboLearn, LFDM, MRM-D (CoRL 2024), WTP (NeurIPS 2024)

AWARDS & SCHOLARSHIPS

Best Paper Awards: NGSM at ICML, ViTac at ICRA, HI at RSS 2024-2025
IISc Bangalore KVPY Scholar, Ranked Among Top 0.5% in India 2017
NTSE State Scholar, Ranked 3 in State (Karnataka) 2015