

# 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

5) 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 Transactions on Robotics (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