

# Shivin Dass

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## RESEARCH INTERESTS

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My research goal is to develop generalist robots that can do everyday tasks in complex unstructured real-world environments. To this end, my current research focuses on scaling data collection and finding efficient ways of using this data to train generalist robots, especially via imitation learning. I believe that expanding both expert and autonomous datasets in real-world, supplemented by human-in-the-loop deployment, is crucial for creating robust policies and kick-start the robot data 'flywheel'.

## EDUCATION

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<b>University of Texas at Austin</b> , Austin, TX Ph.D. in Computer Science (Advisor: <a href="#">Roberto Martín-Martín</a> )	Aug 2023 - Current GPA: 3.78
<b>University of Southern California</b> , Los Angeles, CA M.S. in Computer Science (Advisor: <a href="#">Joseph J. Lim</a> )	Aug 2021 - May 2023 GPA: 4
<b>Indraprastha Institute of Information Technology</b> , Delhi, India Bachelor of Technology, Computer Science and Engineering (Distinction)	Aug 2016 - Aug 2020 CGPA: 9.49/10

## PUBLICATIONS

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- [10] **Shivin Dass\***, Alaa Khaddaj\*, Logan Engstrom, Aleksander Madry, Andrew Ilyas, and Roberto Martín-Martín. [DataMIL: Selecting Data for Robot Imitation Learning with Datamodels](#), *CoRL Workshop on Making Sense of Data in Robotics*, 2025  
**Best Workshop Paper Award**
- [9] Priyanka Mandikal, Jiaheng Hu, **Shivin Dass**, Sagnik Majumder, Roberto Martín-Martín, and Kristen Grauman. [Mash, Spread, Slice! Learning to Manipulate Object States via Visual Spatial Progress](#), *CoRL Workshop on Beyond Rigid Worlds*, 2025  
**Best Workshop Poster Award**
- [8] Pranav Atreya\*, Karl Pertsch\*, Tony Lee\*, ..., **Shivin Dass**, ..., and Sergey Levine. [RoboArena: Distributed Real-World Evaluation of Generalist Robot Policies](#), *Conference on Robot Learning (CoRL)*, 2025
- [7] Sateesh Kumar, **Shivin Dass**, Georgios Pavlakos, and Roberto Martín-Martín. [COLLAGE: Adaptive Fusion-based Retrieval for Augmented Policy Learning](#), *Conference on Robot Learning (CoRL)*, 2025
- [6] **Shivin Dass**, Jiaheng Hu, Ben Abbatematteo, Peter Stone, and Roberto Martín-Martín. [Learning to Look: Seeking Information for Decision Making via Policy Factorization](#), *Conference on Robot Learning (CoRL)*, 2024
- [5] **Shivin Dass**, Wensi Ai, Yuqian Jiang, Samik Singh, Jiaheng Hu, Ruohan Zhang, Peter Stone, Ben Abbatematteo, and Roberto Martín-Martín. [TeleMoMa: A Modular and Versatile Teleoperation System for Mobile Manipulation](#), *ICRA MoMa Workshop & RSS DGR Workshop*, 2024
- [4] Alexander Khazatsky\*, Karl Pertsch\*, ..., **Shivin Dass**, ..., and Chelsea Finn. [Droid: A large-scale in-the-wild robot manipulation dataset](#), *Robotics: Science and Systems (RSS)*, 2024
- [3] Huihan Liu, **Shivin Dass**, Roberto Martín-Martín, and Yuke Zhu. [Model-based runtime monitoring with interactive imitation learning](#), *IEEE International Conference on Robotics and Automation (ICRA)*, 2024

- [2] Open X-Embodiment Collaboration. [Open X-Embodiment: Robotic Learning Datasets and RT-X Models](#), *IEEE International Conference on Robotics and Automation (ICRA)*, 2024  
**Best Conference Paper Award**
- [1] **Shivin Dass\***, Karl Pertsch\*, Hejia Zhang, Youngwoon Lee, Joseph J. Lim, and Stefanos Nikolaidis. [PATO: Policy Assisted TeleOperation for Scalable Robot Data Collection](#), *Robotics: Science and Systems (RSS)*, 2023

## TEACHING

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<i>Teaching Assistant</i> , UT Austin Freshman Research Initiative (Robotics)	Spring 2024
<i>Teaching Assistant</i> , USC CSCI-570 Analysis of Algorithms	Summer 2022, Fall 2022
<i>Teaching Assistant</i> , USC CSCI-561 Foundations of Artificial Intelligence	Spring 2022

## EXPERIENCE

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<b>Cognitive Learning for Vision and Robotics (CLVR) Lab</b> , USC, CA <i>Deep Learning Graduate Researcher</i> with Joseph Lim - Research in robot learning	Aug 2021 - May 2023
<b>TensorClass</b> , New Delhi, India <i>Startup Co-Founder</i> - A web-based e-learning platform with mentor matching to make education accessible during Covid19	Aug 2020 - Aug 2021
<b>Collaborative Robotics Lab</b> , IIIT Delhi, India <i>Researcher</i> - Research in multi-agent path planning in communication restricted settings	Jan 2019 - Dec 2019

## COMMUNITY SERVICES AND AWARDS

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### Awards

- *Best Workshop Paper Award*, CoRL 2025
- *Best Workshop Poster Award*, CoRL 2025
- *IEEE ICRA Best Conference Paper Award*, 2024
- Dean's List of Academic Excellence, IIIT Delhi (2017 and 2018)
- *World Robotics Olympiad*, National Rank 4 (2013), National Rank 1 and World Rank 18 (2014)

### Workshop Organizer

- *Co-Organizer*, [Workshop on Generalist policies in the wild & Robo-Arena challenge](#), CoRL 2025

### Reviewer

- Robotics Automation Letters (RA-L), CoRL, ICRA

Last Update : January 9, 2026

Shivin Dass