

CONTACT INFORMATION	2121 Berkeley Way	WEB: <a href="https://mahis.life">https://mahis.life</a>
	Berkeley, CA 94704	TEL.: +1 (617) 909 3049
EDUCATION	<b>University of California, Berkeley</b>	Aug. 2025 – Present
	<i>Postdoctoral Researcher</i>	
	Host: Jitendra Malik	
	<b>New York University</b>	Sep. 2020 – July 2025
	Courant Institute of Mathematical Sciences	
	<i>Ph.D. Candidate in Computer Science</i>	
RESEARCH EXPERIENCE	Advisor: Lerrel Pinto	
	<b>Massachusetts Institute of Technology</b>	Sep. 2015 – Aug. 2020
	<i>M.Eng. in Electrical Engineering and Computer Science</i>	Jan. ‘19 – Aug. ‘20
	Advisor: Aleksander Mądry	
	<i>S.B. in Mathematics and in Computer Science</i>	Sep. ‘15 – Jun. ‘19
RESEARCH EXPERIENCE	<b>Hello Robot Inc.;</b> Research Consultant with Dr. Aaron Edsinger	Jan. ‘24 – May ‘24
	<b>GenAI &amp; FAIR @ Meta AI;</b> Visiting Scientist with Dr. Ishan Misra	Oct. ‘22 – Oct. ‘23
	<b>Embodied AI @ Meta AI;</b> Reserach Intern with Dr. Arthur Szlam	May ‘22 – Sep. ‘22
HONORS AND AWARDS	<b>Innovator under 35 (TR35), MIT Technology Review</b>	2025
	<b>Best Demo Award, Conference on Computer Vision and Pattern Recognition</b>	2025
	<b>PhD Communications Award, Amazon Robotics Research Symposium</b>	2024
	<b>Best Paper, Lifelong Learning for Home Robots workshop @ CoRL 2024</b>	2024
	<b>Outstanding Paper, MFM-EAI workshop @ ICML 2024</b>	2024
	<b>Best Demo Award (Finalist), Intl. Conf. on Robotics &amp; Automation (ICRA)</b>	2024
	<b>Apple Scholars in AI/ML Fellowship, Apple MLR</b>	2023–25
	<b>Two Sigma Fellowship, (Finalist, Declined)</b>	2023
	<b>Jacob T. Schwartz Ph.D. Fellowship, NYU Courant</b>	2023
	<b>AI Mentorship (AIM) Program, Meta &amp; NYU</b>	2022–23
	<b>Best Paper, Language and Robot Learning workshop @ CoRL 2022</b>	2022
	<b>Burchard Scholars Program, MIT</b>	2018–19
	<b>AMD Undergraduate Research and Innovation Scholarship, MIT</b>	2017–18
	<b>Silver Medal, International Mathematical Olympiad (IMO)</b>	2014
	<b>Bronze Medal, International Mathematical Olympiad (IMO) ×2</b>	2012–13
	<b>Natl. Team Bangladesh, International Olympiad in Informatics (IOI) ×2</b>	2012, 2015
	<b>National Champion, Bangladesh Mathematical Olympiad ×6</b>	2009–14
RESEARCH MENTORING	<b>Current Students</b>	
	Haritheja Etukuru	2023 – Now, Ph.D. @ UC Berkeley; <i>Grad.</i> ‘30
	Omar Rayyan	2024 – Now, Ph.D. @ UCLA; <i>Grad.</i> ‘30

Manan Anjaria	2025 – Now, MS @ New York University; <i>Grad.</i> ‘26
Vedant Ghatnekar	2025 – Now, MS @ New York University; <i>Grad.</i> ‘26
Krish Mehta	2025 – Now, BS @ University of Waterloo; <i>Grad.</i> ‘26

### Past Students

Enes Erciyes	2023 – 24, MS @ New York University
<i>Next stealth startup</i>	
Seungjae “Jay” Lee	2023 – 24, MS @ Seoul National University
<i>Next Ph.D. at UMD</i>	
Zhanqiu “Jack” Guo	2023 – 24, BS @ New York University
<i>Next MS at CMU</i>	
Peiqi Liu	2023 – 24, BS @ New York University
<i>Next at <a href="#">Hello Robot Inc.</a></i>	
Yaswanth Orru	2023 – 24, MS @ New York University
<i>Next at <a href="#">Fauna Robotics</a></i>	
Yibin Wang	2022 – 24, BS, MS @ New York University
<i>Next Ph.D. at Northwestern University</i>	
Anant Rai	2022 – 23, MS @ New York University
<i>Next at <a href="#">1X Technologies</a></i>	
Yiqian “Eva” Liu	2022 – 23, BS @ New York University
<i>Next MS at Columbia University</i>	
Zichen “Jeff” Cui	2022 – 24, MS @ New York University
<i>Next Ph.D. at NYU GRAIL</i>	
Ariuntaya Altanzaya	2022–23, MS @ New York University
<i>Next at <a href="#">Roboflow</a></i>	
Sridhar Pandian Arunachalam	2021–22, MS @ New York University
<i>Next at <a href="#">1X Technologies</a></i>	
Jyothish Pari	2020 – 21, BS @ New York University
<i>Next Ph.D. at MIT</i>	

### INVITED TALKS Memory As a Model of the World

ICCV workshop on Human-Robot-Scene Interaction and Collaboration	Oct. 2025
ICCV workshop on Reliable and Interactable World Models	Oct. 2025

### On Building General, Zero-Shot Robot Policies

Cornell University CS 4756/5756: Robot Learning	Nov. 2024
Harvard Computational Robotics Group	Oct. 2024
MIT Embodied Intelligence Seminar	Oct. 2024
OpenAI Robotics Reading Group	Oct. 2024
CMU Manipulation Group Seminar	Sep. 2024

### Behavior Generation with Latent Actions

HuggingFace LeRobot Research Talks	Aug. 2024
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### On Bringing Robots Home

Apple AI/ML Research	May 2024
UMich EECS 598: Action & Perception	Mar. 2024
Google Deepmind Robotics	Mar. 2024
Berkeley Robot Learning Lab	Feb. 2024
Meta Embodied AI Seminar	Jan. 2024

	NYU CILVR Seminar	Dec. 2023
	<b>Robot Learning in a Post-Turing World</b>	
	Honda Research, Tokyo	Jul. 2023
	Purdue University	Apr. 2023
	REAL Lab @ Columbia (now Stanford)	Nov. 2022
<b>TUTORIALS</b>	<b>Supervised Policy Learning for Real Robots</b> <i>Robotics: Science and Systems (RSS) 2024</i> <a href="https://supervised-robot-learning.github.io">https://supervised-robot-learning.github.io</a> <i>Shafullah, Nur Muhammad Mahi, Feng, Siyuan, Pinto, Lerrel &amp; Tedrake, Russ</i>	
<b>TEACHING EXPERIENCE</b>	<b>Graduate Deep Reinforcement Learning (CSCI-GA 3033-090)</b> <i>New York University</i> Graduate Teaching Assistant	Fall 2021
	<b>Introduction to Machine Learning (6.036) ×2</b> Jointly Instructed with <b>Applied Machine Learning (6.862)</b> <i>Massachusetts Institute of Technology</i> Graduate Teaching Assistant	Spring & Fall 2019
	<b>Principles of Discrete Applied Mathematics (18.200)</b> <i>Massachusetts Institute of Technology</i> Teaching Assistant (Grading)	Fall 2018
	<b>Design and Analysis of Algorithms (6.046/18.410)</b> <i>Massachusetts Institute of Technology</i> Volunteer Student Tutor with Eta Kappa Nu (HKN) Honor Society	Fall 2015 – Spring 2017
	<b>Combinatorics and Euclidean Geometry</b> <i>Bangladesh Mathematical Olympiad National Camps</i> Instructor and Deputy Leader for the National Math Team	2010–15, 2022–23
<b>ACADEMIC SERVICE</b>	<b>Area Chair</b> <i>Robotics</i> — International Conference on Robotics and Automation (ICRA) ‘26	
	<b>Workshop and Tutorial Organization</b> Program Committee, NYC Computer Vision Day ‘25 7 <sup>th</sup> Workshop on Robot Learning @ ICLR ‘25 Tutorial on Supervised Policy Learning for Real Robots @ RSS ‘24 1 <sup>st</sup> Workshop on Vision-Language Models for Navigation and Manipulation @ ICRA ‘24 1 <sup>st</sup> Workshop on Learning Dexterous Manipulation @ RSS ‘23	
	<b>Peer Reviewing</b> <i>Robotics</i> — RSS, CoRL, RA-L, RA-P, ICRA, T-RO, IROS, IJRR <i>Machine Learning</i> — ICLR, NeurIPS, ICML <i>Computer Vision</i> — T-PAMI	
<b>PRESS COVERAGE</b>	<b>DynaMem: Online Dynamic Spatio-Semantic Memory for Open World Mobile Manipulation</b> (coverage as part of Stretch AI) The Robot Report, IEEE Spectrum	
	<b>Robot Utility Models: General Policies for Zero-Shot Deployment in New Environments</b>	

MIT Technology Review, The Robot Report, Elektropraktiker (Germany),  
IndiaAI.gov (India)

**OK Robot: What Really Matters in Integrating Open-Knowledge Models for Robotics**

MIT Technology Review, Fox News, VentureBeat, TechXplore, Notebookcheck, Digital  
Information World (Pakistan)

**On Bringing Robots Home**

MIT Technology Review, New Scientist, TechXplore, TV Tokyo (Japan), Neue Zürcher  
Zeitung (Switzerland), NDTV (India), MarkTechPost, Washington Square News

**Open X-Embodiment: Robotic Learning Datasets and RT-X Models**

VentureBeat, Tech Times, Synced Review (Canada), TechForge (UK)  
Analytics India Magazine (India)

**The Surprising Effectiveness of Representation Learning for Visual Imitation**

TechXplore

PREPRINTS

<sup>†</sup> Equal Contribution, <sup>‡</sup> Equal Advising. Works Presented Reverse Chronologically.

[1] **On Bringing Robots Home**

DOI: [ARXIV:2311.16098](https://arxiv.org/abs/2311.16098)

*International Journal of Robotics Research (Under Review)*

**Live Demo** at *Neural Information Processing Systems (NeurIPS) 2023*

**Best Demo Award (Finalist)** at *International Conference on Robotics and Automation  
(ICRA) 2024*

*Shafiullah, Nur Muhammad Mahi<sup>†</sup>, Rai, A.<sup>†</sup>, Etukuru, H., Liu, Y., Misra, I., Chintala, S.,  
Pinto, L.*

REFEREED

PUBLICATIONS

[2] **DynaMem: Online Dynamic Spatio-Semantic Memory for Open World Mobile  
Manipulation**

*International Conference on Robotics and Automation (ICRA)*

**Live Demo** at *Conference on Robot Learning (CoRL) 2024*

**Best Paper Award** at *CoRL 2024 Workshop on Lifelong Learning for Home Robots*

*Liu, P., Guo, Z., Warke, M., Chintala, S., Paxton, C., Shafiullah, Nur Muhammad Mahi<sup>†</sup>  
& Pinto, L.<sup>‡</sup>*

[3] **Robot Utility Models: General Policies for Zero-Shot Deployment in New  
Environments**

*International Conference on Robotics and Automation (ICRA)*

**Best Demo Award** at *IEEE/CVF Conference on Computer Vision and Pattern Recognition  
(CVPR) 2025*

*Etukuru, H.<sup>†</sup>, Naka, N., Hu, Z., Lee, S., Mehu, J., Edsinger, A., Paxton, C., Chintala, S.,  
Pinto, L., Shafiullah, Nur Muhammad Mahi<sup>†</sup>*

[4] **OK-Robot: What Really Matters in Integrating Open-Knowledge Models for Robotics  
Robotics: Science and Systems (RSS) 2024**

**Live demo** at *International Conference on Robotics and Automation (ICRA) 2024*

*Liu, P.<sup>†</sup>, Orru, Y.<sup>†</sup>, Vakil, J., Paxton, C., Shafiullah, Nur Muhammad Mahi<sup>‡</sup> & Pinto, L.<sup>‡</sup>*

[5] **Behavior Generation with Latent Actions**

**Spotlight (3.5%)** at *International Conference of Machine Learning (ICML) 2024*

**Outstanding Paper Award** at *Multi-modal Foundation Models for Embodied AI  
workshop, ICML 2024*

Lee, S., Wang, Y., Etukuru, H., Kim, H., *Shafiullah, Nur Muhammad Mahi*<sup>†</sup> & Pinto, L.<sup>‡</sup>

- [6] **Open X-Embodiment: Robotic learning datasets and RT-x models**  
**Best Paper Award** at *International Conference in Robotics and Automation (ICRA) 2024*  
 Open X-Embodiment Collaboration
- [7] **CLIP-Fields: Weakly Supervised Semantic Fields for Robotic Memory**  
*Robotics: Science and Systems (RSS) 2023*  
**Best Paper Award** at *CoRL Workshop on Language and Robot Learning 2023*  
*Shafiullah, Nur Muhammad Mahi*, Paxton, C., Pinto, L., Chintala, S., Szlam, A.
- [8] **From Play to Policy: Conditional Behavior Generation from Uncurated Robot Data**  
**Oral Presentation (5%)** at *Intl. Conference on Learning Representations (ICLR) 2023*  
 Cui, Zichen, Wang, Yibin, *Shafiullah, Nur Muhammad Mahi*, Pinto, Lerrel
- [9] **Behavior Transformers: Cloning  $k$  Modes with One Stone**  
*Neural Information Processing System (NeurIPS) 2022*  
*Shafiullah, Nur Muhammad Mahi*, Cui, Zichen, Altanzaya, Ariuntaya, Pinto, Lerrel
- [10] **The Surprising Effectiveness of Representation Learning for Visual Imitation**  
*Robotics: Science and Systems (RSS) 2022*  
 Pari, J.<sup>†</sup>, *Shafiullah, Nur Muhammad Mahi*<sup>†</sup>, Arunachalam, S.P., Pinto, L.
- [11] **One After Another: Learning Incremental Skills for a Changing World**  
*International Conference on Learning Representations (ICLR) 2022*  
*Shafiullah, Nur Muhammad Mahi*, Pinto, Lerrel
- [12] **Training for Faster Adversarial Robustness Verification via Inducing ReLU Stability**  
*International Conference on Learning Representations (ICLR) 2019*  
 Xiao, K. Y., Tjeng, V., *Shafiullah, Nur Muhammad Mahi*, Mądry, A.

#### RESEARCH SOFTWARE

- [13] **AnySense: An iPhone App for Multi-sensory Data Collection and Learning** [anysense.app](https://anysense.app)  
 Bhirangi, R., Bian, Z., Pattabiraman, V., Etukuru, H., Erciyes, M., , *Shafiullah, Nur Muhammad Mahi*, Pinto, L.

#### OUTREACH, VOLUNTEERING, & SOCIAL GOOD

Mentor, Ph.D. Application Advising, NYU GRAIL	2021–2025
Mentor, Collegiate Research Initiative, NYU	2023
Deputy Leader, Bangladesh National Math Team, IMO 2023 Japan	2023
Consultant, Bangladesh National Data Analytics Task Force (COVID-19)	2020–22
Online Learning Transition Consultant, Brac University Bangladesh	2020–21
Internal Relations Chair, MIT HKN Honor Society	2019–20
MIT Global Teaching Lab, Stuttgart, Germany	2018
Editor (Photography), THE TECH, MIT's Student Newspaper	2017–19
MIT Peer Mentoring Program	2017–18
Co-president, MIT Bangladeshi Students Association	2016–18
Co-president, MIT International Students Association	2016–17
Volunteer Tutor, MIT HKN Honor Society	2015–17
Mentor, Bangladesh Olympiad in Informatics	2014–2015
Mentor, Bangladesh Mathematical Olympiad	2010–2015

## REFERENCES

1. **Jitendra Malik**, *Professor of EECS, UC Berkeley*. [malik@eecs.berkeley.edu](mailto:malik@eecs.berkeley.edu)
2. **Russ Tedrake**, *Professor of EECS, Aero/Astro, MechE, MIT*. [russt@mit.edu](mailto:russt@mit.edu)
3. **Abhinav Gupta**, *Professor, CMU Robotics Institute*. [abhinavg@cs.cmu.edu](mailto:abhinavg@cs.cmu.edu)
4. **Rob Fergus**, *Professor of CS, NYU Courant*. [fergus@cs.nyu.edu](mailto:fergus@cs.nyu.edu)
5. **Lerrel Pinto**, *Assistant Professor of CS, NYU Courant*. [lerrel@cs.nyu.edu](mailto:lerrel@cs.nyu.edu)
6. **Charles C. Kemp**, *Cofounder & Chief Technology Officer, Hello Robot Inc. Previously Associate Professor, Georgia Institute of Technology*. [ck@hello-robot.com](mailto:ck@hello-robot.com)