Contact Information	60 Fifth Avenue, Fl. 5 New York, NY 10011	WEB: https://mahis.life Tel.: +1 (617) 909 3049		
Education	Courant Institute of Mathematical Sciences New York University Ph.D. Candidate in Computer Science Advisor: Prof. Lerrel Pinto	Sep. 2020 – Present		
	Massachusetts Institute of Technology	Sep. 2015 – Aug. 2020		
	M.Eng. in Electrical Engineering and Computer Science Advisor: Prof. Aleksander Mądry	Jan. '19 – Aug. '20		
	S.B. in Mathematics and in Computer Science	Sep. '15 – Jun. '19		
Research Experience	Hello Robot Inc.; Research Consultant with Dr. Aaron Edsinger GenAI & FAIR @ Meta AI; Visiting Scientist with Dr. Ishan Misra Embodied AI @ Meta AI; Reserach Intern with Dr. Arthur Szlam	Jan. '24 – May '24 Oct. '22 – Oct. '23 May '22 – Sep. '22		
Honors and Awards	PhD Communications Award, Amazon Robotics Research Sympo	osium 2024		
	Best Paper, Lifelong Learning for Home Robots workshop @ CoR	L 2024 2024		
	Outstanding Paper, MFM-EAI workshop @ ICML 2024	2024		
	Best Demo Award (Finalist), Intl. Conf. on Robotics & Automatic	on (ICRA) 2024		
	Apple Scholars in AI/ML Fellowship, Apple MLR	2023-25		
	Two Sigma Fellowship, (Finalist, Declined)	2023		
	Jacob T. Schwartz Ph.D. Fellowship, NYU Courant	2023		
	AI Mentorship (AIM) Program, Meta & NYU	2022-23		
	Best Paper, Language and Robot Learning workshop @ CoRL 202.	2 2022		
	Henry M. MacCracken Doctoral Fellowship, NYU	2020–25		
	Burchard Scholars Program, MIT	2018-19		
	AMD Undergraduate Research and Innovation Scholarship, MIT	2017–18		
	Silver Medal, International Mathematical Olympiad (IMO)	2014		
	Bronze Medal , International Mathematical Olympiad (IMO) $\times 2$	2012-13		
	Bangladesh Natl. Team, International Olympiad in Informatics (Id	OI) $\times 2$ 2012, 2015		
	National Champion, Bangladesh Mathematical Olympiad $\times 6$	2009–14		
References	1. Prof. Lerrel Pinto , <i>Assistant Professor of CS</i> , <i>NYU Courant</i> . lerrel@cs.nyu.edu			
	2. Prof. Russ Tedrake , <i>Professor of EECS</i> , <i>Aero/Astro</i> , <i>MechE</i> , <i>MIT</i> . russt@mit.edu			
	3. Prof. Abhinav Gupta, Professor, CMU Robotics Institute. abhinavg@cs.cmu.edu			
	4. Prof. Rob Fergus , <i>Professor of CS</i> , <i>NYU Courant</i> . fergus@cs.nyu.edu			
	5. Dr. Charles C. Kemp , Cofounder & Chief Technology Officer, Hello Robot Inc. Previously			

Associate Professor, Georgia Institute of Technology. ck@hello-robot.com

PREPRINTS

† Equal Contribution, ‡ Equal Advising. Works Presented Reverse Chronologically.

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

DOI: ARXIV:2411.04999

International Conference of Robotics and Automation (ICRA) (Under Review)

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[‡]

& Pinto, L.[‡]

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

DOI: ARXIV:2409.05865

International Conference of Robotics and Automation (ICRA) (Under Review)

Live Demo at Conference on Robot Learning (CoRL) 2024

Oral Presentation at CoRL 2024 Workshop on Language and Robot Learning (LangRob)

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

[3] On Bringing Robots Home

DOI: ARXIV: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[†], Rai, A.[†], Etukuru, H., Liu, Y., Misra, I., Chintala, S., Pinto, L.

REFEREED PUBLICATIONS

- [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.†, Orru, Y.†, Vakil, J., Paxton, C., Shafiullah, Nur Muhammad Mahi‡ & Pinto, L.‡
- [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‡& Pinto, L.‡
- [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.[†], Shafiullah, Nur Muhammad Mahi[†], 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, Madry, A.

INVITED TALKS On Building General, Zero-Shot Robot Policies

Harvard Computational Robotics Group	Oct. 2024
MIT Embodied Intelligence Seminar	Oct. 2024
OpenAI Robotics Reading Group	Oct. 2024
CMU Manipulation Group Seminar	
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Behavior Generation with Latent Actions

HuggingFace LeRobot Research Talks Aug. 2024

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

Robot Learning in a Post-Turing World

Honda Research, Tokyo

REAL Lab @ Columbia (now Stanford)

Jul. 2023

Nov. 2022

TUTORIALS Supervised Policy Learning for Real Robots

Robotics: Science and Systems (RSS) 2024 https://supervised-robot-learning.github.io/

Shafiullah, Nur Muhammad Mahi, Feng, Siyuan, Pinto, Lerrel & Tedrake, Russ

RESEARCH MENTORING

Current Students

Haritheja Etukuru (2023 – Present, BS @ New York University; *Graduating* '25)

Omar Rayyan (2024 – Present, BS @ New York University (Abu Dhabi); Graduating '25)

Zhanqiu "Jack" Guo (2024 - Present, BS @ New York University; Graduating '25)

Lisa Kondrich (2024 – Present, MS @ New York University; Graduating '26)

Norihito Naka (2023 – Present, MS @ New York University; Graduating '25)

Yibin Wang (2022 - Present, BS, MS @ New York University; Graduating '25)

Past Students

Seungiae Lee (2023 – 24, MS @ Seoul National University; Next Ph.D. at UMD)

Peiqi Liu (2023 – 24, BS @ New York University; Next at Hello Robot Inc.)

Yaswanth Orru (2023 – 24, MS @ New York University; Next at Fauna Robotics)

Anant Rai (2022 – 23, MS @ New York University; Next at 1X.tech)

Yiqian Liu (2022 – 23, BS @ New York University; Next MS at Columbia University)

Zichen "Jeff" Cui (2022 – 24, MS @ New York University; Next Ph.D. at NYU GRAIL) Ariuntaya Altanzaya (2022–23, MS @ New York University; Next at Roboflow) Sridhar Pandian Arunachalam (2021–22, MS @ New York University; Next at 1X.tech) Jyothish Pari (2020 – 21, BS @ New York University; Next Ph.D. at MIT)

ACADEMIC SERVICE

Workshop and Tutorial Organization

7th Workshop on Robot Learning @ ICLR '25 (proposed)

Tutorial on Supervised Policy Learning for Real Robots @ RSS '24

1st Workshop on Vision-Language Models for Navigation and Manipulation @ ICRA '24

1st Workshop on Learning Dexterous Manipulation @ RSS '23

Peer Reviewing

Robotics — RSS, CoRL, RA-L, ICRA, T-RO, IROS, IJRR

Machine Learning — ICLR, NeurIPS, ICML

Computer Vision — T-PAMI

TEACHING EXPERIENCE

Graduate Deep Reinforcement Learning (CSCI-GA 3033-090)

Fall 2021

XPERIENCE New York University

Graduate Teaching Assistant with Prof. Lerrel Pinto

Introduction to Machine Learning (6.036) $\times 2$

Jointly Instructed with Applied Machine Learning (6.862)

Spring & Fall 2019

Massachusetts Institute of Technology

Graduate Teaching Assistant with Prof. Leslie P. Kaelbling

Principles of Discrete Applied Mathematics (18.200)

Fall 2018

Massachusetts Institute of Technology

Teaching Assistant (Grading) with Prof. Andrej Risteski

Design and Analysis of Algorithms (6.046/18.410) $\times 4$

Fall 2015 – Spring 2017

Massachusetts Institute of Technology

Volunteer Student Tutor with Eta Kappa Nu (HKN) Honor Society

Combinatorics and Euclidean Geometry

2010–15, 2022–23

Bangladesh Mathematical Olympiad National Camps

Instructor under Dr. Mahbub A. Majumdar

Press Coverage

Robot Utility Models: General Policies for Zero-Shot Deployment in New Environments

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

Outreach,	Mentor, Ph.D. Application Advising, NYU GRAIL	2021-Present
Volunteering,	Mentor, Collegiate Research Initiative, NYU	2023
& Social Good	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
	MIT Peer Mentoring Program	2017-18
	Volunteer Tutor, MIT HKN Honor Society	2015-17
	Mentor, Bangladesh Olympiad in Informatics	2014-2015
	Mentor, Bangladesh Mathematical Olympiad	2010-2015