CONTACT Information	60 Fifth Avenue, Fl. 5 New York, NY 10011		WEB: https://mahis.life TEL.: +1 (617) 909 3049	
EDUCATION	New York University Courant Institute of Mathematical Ph.D. Candidate in Computer Scie Advisor: Lerrel Pinto		Sep. 2020 – Present	
	Massachusetts Institute of Techno	ology	Sep. 2015 – Aug. 2020	
	M.Eng. in Electrical Engineering at Advisor: Aleksander Mądry	C,	Jan. '19 – Aug. '20	
	S.B. in Mathematics and in Compu	ter Science	Sep. '15 – Jun. '19	
RESEARCH	Hello Robot Inc.; Research Consu	· ·	Jan. '24 – May '24	
Experience	GenAI & FAIR @ Meta AI; Visitin	O		
	Embodied AI @ Meta AI; Reserac	ch Intern with Dr. Arthur Szlam	May '22 – Sep. '22	
Honors and	PhD Communications Award, An	mazon Robotics Research Sympo	osium 2024	
Awards	Best Paper, Lifelong Learning for Home Robots workshop @ CoRL 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			
	Two Sigma Fellowship, (Finalist, Declined) Jacob T. Schwartz Ph.D. Fellowship, NYU Courant AI Mentorship (AIM) Program, Meta & NYU			
	Best Paper, Language and Robot I	2 2022		
	Burchard Scholars Program, MIT			
AMD Undergraduate Research and Innova		nd Innovation Scholarship, MIT	2017–18	
	Silver Medal, International Mathematical Olympiad (IMO)			
	Bronze Medal , International Mathematical Olympiad (IMO) $\times 2$		2012-13	
	Natl. Team Bangladesh, International Olympiad in Informatics (IOI) $\times 2$		OI) ×2 2012, 2015	
	National Champion, Bangladesh Mathematical Olympiad $\times 6$		2009–14	
Dronen				
RESEARCH	Current Students	2022 Novy DC @ Novy V	ouls I Inissensites, Cond. '25	
Mentoring	Haritheja Etukuru 2023 – Now, BS @ New York University; <i>Grad.</i> '2 Omar Rayyan 2024 – Now, BS @ NYU Abu Dhabi; <i>Grad.</i> '2			
	Zhanqiu "Jack" Guo 2024 – Now, BS @ New York University; Grad. '25			
	Lisa Kondrich 2024 – Now, MS @ New York University; <i>Grad.</i> '2			
	Norihito Naka	2023 - Now, MS @ New Yo	•	
	Yibin Wang	2022 – Now, BS, MS @ New Yo	ork University; Grad. '25	

	rast students	2022 24 252 2 2 127 4 177 4
	Seungjae "Jay" 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 Technologies	
	Yiqian "Eva" 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 Technologies	, -
	Jyothish Pari	2020 – 21, BS @ New York University
	Next Ph.D. at MIT	2020 22, 20 € 1.011 2021 0221000
	1,000 1,000 1,111	
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INVITED TALKS	On Building General, Zero-Shot Robot Po	
	Cornell University CS 4756/5756: Robot	•
	Harvard Computational Robotics Group	
	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
	On Bringing Robots Home	M 2024
	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	Jul. 2023
	Purdue University	Apr. 2023
	REAL Lab @ Columbia (now Stanford)	Nov. 2022
Tutorials	Supervised Policy Learning for Real Robot	ts
	Robotics: Science and Systems (RSS) 2024	
	https://supervised-robot-learning.github.	.io
	Shafiullah, Nur Muhammad Mahi, Feng	

Past Students

TEACHING

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

Fall 2021

EXPERIENCE New York University

Graduate Teaching Assistant

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

Principles of Discrete Applied Mathematics (18.200)

Fall 2018

Massachusetts Institute of Technology Teaching Assistant (Grading)

Design and Analysis of Algorithms (6.046/18.410)

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 and Deputy Leader for the National Math Team

ACADEMIC SERVICE

Workshop and Tutorial Organization

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

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

 1^{st} 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

Press Coverage

DynaMem: Online Dynamic Spatio-Semantic Memory for Open World Mobile

Manipulation (coverage as part of Stretch AI)

The Robot Report, IEEE Spectrum

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

PREPRINTS

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

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

DOI: ARXIV

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.

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
	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. Lerrel Pinto, Assistant Professor of CS, NYU Courant. lerrel@cs.nyu.edu
- 2. Russ Tedrake, Professor of EECS, Aero/Astro, MechE, MIT. russt@mit.edu
- 3. Abhinav Gupta, Professor, CMU Robotics Institute. abhinavg@cs.cmu.edu
- 4. Rob Fergus, Professor of CS, NYU Courant. fergus@cs.nyu.edu
- 5. Charles C. Kemp, Cofounder & Chief Technology Officer, Hello Robot Inc. Previously Associate Professor, Georgia Institute of Technology. ck@hello-robot.com