Mohit Shridhar

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RESEARCH INTERESTS	HLanguage Grounding, Action-Centric Perception, Human-Robot Interaction, Unsuper- vised and Self-Supervised Representation-Learning, 3D Perception and Graphics	
EDUCATION	University of Washington <i>PhD in Computer Science</i> Advised by: Dieter Fox Committee: Leslie Kaelbling, Luke Zettlemoyer, Blake Hannafe	2018 - 2023 ord
	University of Washington Masters in Computer Science	2018 - 2020
	National University of Singapore B.Eng in Computer Engineering, Minor in Techno-Entreprenet Honors with Distinction Advised by: David Hsu	2012 - 2016 urship
	Stanford NUS Overseas College - one year program	2015 - 2015
PUBLICATIONS	Google Scholar, Semantic Scholar.	
	Conferences	
(C7)	Perceiver-Actor: A Multi-Task Transformer for Robot Conference on Robot Learning (CoRL) 2022 Mohit Shridhar, Lucas Manuelli, Dieter Fox	ic Manipulation
(C6)	CLIPort: What and Where Pathways for Robotic Mar Conference on Robot Learning (CoRL) 2021 Mohit Shridhar, Lucas Manuelli, Dieter Fox	nipulation
(C5)	Language Grounding with 3D Objects Conference on Robot Learning (CoRL) 2021 Jesse Thomason [*] , <u>Mohit Shridhar</u> [*] , Yonatan Bisk, Chris Paxton, Luke Zettlemoyer	
(C4)	ALFWorld: Aligning Text and Embodied Environment for Interactive Learning International Conference on Learning Representations (ICLR) Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, Yonatan Bisk, Adam Trischler, Matthew Hausknecht	ts 2021
(C3)	ALFRED: A Benchmark for Interpreting Grounded Infor Everyday Tasks. Computer Vision and Pattern Recognition (CVPR) 2020 Mohit Shridhar, Jesse Thomason, Daniel Gordon, Yonatan Bis Winson Han, Roozbeh Mottaghi, Luke Zettlemoyer, Dieter Fox	s tructions k
(C2)	Interactive Visual Grounding of Referring Expressions Human-Robot Interaction. Robotics: Science and Systems (RSS) 2018 Mohit Shridhar, David Hsu	for
(C1)	 XPose: Reinventing user interaction with flying camer Robotics: Science and Systems (RSS) 2017 Ziquan Lan, Mohit Shridhar, David Hsu, Shengdong Zhao ♦ Best Systems Paper Award 	as.

Preprints

(P1)	Retrospectives on the Embodied AI Workshop.
	ArXiv 2022
	Matt Deitke et al.

Journals

(J1)	INGRESS: Interactive Visual Grounding of Referring Expressions.
	International Journal of Robotics Research (IJRR) 2020
	Mohit Shridhar, Dixant Mittal, David Hsu

Workshops

(W1)	Grounding Spatio-Semantic Referring Expressions for Human-Robot Interaction. RSS Workshop on Spatial-Semantic Representations in Robotic Mohit Shridhar, David Hsu	cs 2017	
EXPERIENCE	Dyson: Research Scientist Dyson Robot Learning Lab – London Stephen James' Team	July 2023 - Present	
	NVIDIA: Research Intern Robotics Lab – Seattle Advised by Prof. Dieter Fox	June 2022 - Sept 2022	
	Microsoft Research: Intern Reinforcement Learning Group – Seattle Advised by Dr. Matthew Hausknecht	June 2020 - Sept 2020	
	NVIDIA: Research Intern Robotics Lab – Seattle Advised by Prof. Dieter Fox	Jan 2020 - May 2020	
	M ² AP Lab: Research Assistant Advised by Prof. David Hsu	Jan 2016 - Aug 2018	
	 Meta Co: Computer Vision and Graphics Intern YCombinator'13 Augmented-Reality Headset Startup Worked on low-latency visual-inertial SLAM. 	Jan 2015 - Dec 2015	
	 Built a 3D-Skype system with real-time reconstruction in Unity3D. 		
	• Part of CEO's ensemble for building investor demos during Series B (\$50M round).		
	Hope Technik: Robotics Intern Medical Transport AGV Platform	May 2014 - Aug 2014	
	• Worked on path-planning for autonomous medical transport in hospitals.		
	• Implemented a ROS-based multi-map manager for navigating across floors.		
	• Developed an Oculus Rift based demonstration tool to showcase the AGV.		
PROJECTS	Free Viewpoint 3D Telepresence System A realtime, volumetric video conferencing system.	2013 - 2016	
	Monocular Visual-SLAM for Mobile Platforms A keyframe-based 6DOF visual tracker for Android platforms.	2015	

	Dense-Semantic Mapping2017Combined dense image-captioning with visual-SLAM for object search.2017
SERVICES	Reviewer for CoRL, ICRA, IROS, RSS, T-HRI, RA-L, ACL, SIGGRAPH, ICCV, CVPR, TMLR, IJCAI.
TECHNICAL SKILLS	Languages: Python (most familiar), C++ Frameworks: PyTorch, OpenCV, ROS, Unity3D, MTurk
ORGANIZER	Co-Organizer: EAI Workshop at CVPR-23
	Co-Organizer: Language and Robot Learning (LangRob) Workshop at CoRL-22
	Co-Organizer: ALFRED and TEACh Challenge @ EAI Workshop at CVPR-22
	Co-Organizer: ALFRED Challenge @ EAI Workshop at CVPR-21
	Co-Organizer: Embodied Vision, Actions & Language Workshop (EVAL) at ECCV-20
AWARDS &	NVIDIA Graduate Fellowship (2022)
HONORS	Paul G. Allen Fellowship (2018), University of Washington
	Best Systems Paper Award in Memory of Seth Teller (2017), RSS
	NUS 30th Annual Faculty Innovation and Research Award (2016), Undegrad Thesis
	NUS Overseas College Scholarship (2015), Exchange Program at Stanford
	ASEANpreneurs Autodesk Design Challenge (2014), First Place
INVITED	Mila Robot Learning Seminar (May 2023)
TALKS	Stanford Vision and Learning Lab (May 2023)
	Boston Dynamics AI Institute (Feb 2023)
	RAIL Lab – Postdoc Job Talk @ Berkeley (Feb 2023)
	AIR Seminar @ UofT (Oct 2022)
	Machines in Motion Lab @ NYU (Oct 2022)
	AI & Analytics – Talk Series @ A*STAR (Aug 2022)
	iGibson Team @ Stanford (Mar 2022)
	CAIR Lab @ Columbia (Jan 2022)
	Language & Intelligence Group @ MIT (Dec 2021)
	Robotics Group @ Brown (Oct 2021)
	RAIVN Lab @ UW (Sept 2021)
	AdaComp Lab @ NUS (Oct 2021)
GUEST LECTURES	University of Minnesota Course: Deep Learning for Robot Perception (2023)