

Mohit Shridhar

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RESEARCH INTERESTS	Language Grounding, Action-Centric Perception, Human-Robot Interaction, Generative Models, Foundation Models, 3D Perception and Graphics	
EDUCATION	University of Washington <i>PhD in Computer Science</i> Advised by: Dieter Fox Committee: Leslie Kaelbling, Luke Zettlemoyer, Blake Hannaford	2018 - 2023
	University of Washington <i>Masters in Computer Science</i>	2018 - 2020
	National University of Singapore <i>B.Eng in Computer Engineering, Minor in Techno-Entrepreneurship</i> Honors with Distinction Advised by: David Hsu	2012 - 2016
	Stanford NUS Overseas College - one year program	2015 - 2015
PUBLICATIONS	Representative papers. See Google Scholar and Semantic Scholar for all papers.	
	Conferences	
(C10)	Generative Image as Action Models <i>Conference on Robot Learning (CoRL) 2024</i> <u>Mohit Shridhar</u> *, Yat Long Lo*, Stephen James	
(C9)	Gensim: Generating Robotic Simulation Tasks via Large Language Models <i>International Conference on Learning Representations (ICLR) 2024</i> Lirui Wang, Yiyang Ling, Zhecheng Yuan, <u>Mohit Shridhar</u> , Chen Bao, Yuzhe Qin, Bailin Wang, Huazhe Xu, Xiaolong Wang	
(C8)	AR2-D2: Training a Robot without a Robot <i>Conference on Robot Learning (CoRL) 2023</i> Jiafei Duan, Yi Ru Wang, <u>Mohit Shridhar</u> , Dieter Fox, Ranjay Krishna	
(C7)	Perceiver-Actor: A Multi-Task Transformer for Robotic Manipulation <i>Conference on Robot Learning (CoRL) 2022</i> <u>Mohit Shridhar</u> , Lucas Manuelli, Dieter Fox	
(C6)	CLIPort: What and Where Pathways for Robotic Manipulation <i>Conference on Robot Learning (CoRL) 2021</i> <u>Mohit Shridhar</u> , Lucas Manuelli, Dieter Fox	
(C5)	Language Grounding with 3D Objects <i>Conference on Robot Learning (CoRL) 2021</i> Jesse Thomason*, <u>Mohit Shridhar</u> *, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer	
(C4)	ALFWorld: Aligning Text and Embodied Environments for Interactive Learning <i>International Conference on Learning Representations (ICLR) 2021</i> <u>Mohit Shridhar</u> , Xingdi Yuan, Marc-Alexandre Côté, Yonatan Bisk, Adam Trischler, Matthew Hausknecht	
(C3)	ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday Tasks. <i>Computer Vision and Pattern Recognition (CVPR) 2020</i> <u>Mohit Shridhar</u> , Jesse Thomason, Daniel Gordon, Yonatan Bisk, Winson Han, Roozbeh Mottaghi, Luke Zettlemoyer, Dieter Fox	

- (C2) **Interactive Visual Grounding of Referring Expressions for Human-Robot Interaction.**

Robotics: Science and Systems (RSS) 2018

Mohit Shridhar, David Hsu

- (C1) **XPose: Reinventing user interaction with flying cameras.**

Robotics: Science and Systems (RSS) 2017

Ziquan Lan, Mohit Shridhar, David Hsu, Shengdong Zhao

★ Best Systems Paper Award

Journals

- (J1) **INGRESS: Interactive Visual Grounding of Referring Expressions.**

International Journal of Robotics Research (IJRR) 2020

Mohit Shridhar, Dixant Mittal, David Hsu

Preprints

- (P2) **PerAct²: A Perceiver Actor Framework for Bimanual Manipulation Tasks**

ArXiv 2024

Markus Grotz, Mohit Shridhar, Tamim Asfour, Dieter Fox

- (P1) **Retrospectives on the Embodied AI Workshop.**

ArXiv 2022

Matt Deitke et al.

Workshops

- (W1) **Grounding Spatio-Semantic Referring Expressions for Human-Robot Interaction.**

RSS Workshop on Spatial-Semantic Representations in Robotics 2017

Mohit Shridhar, David Hsu

EXPERIENCE	Google Deepmind , London Research Scientist	Nov 2024 - Present
	Dyson , London Research Scientist	Jul 2023 - Oct 2024
	NVIDIA , Seattle Research Intern	Jun 2022 - Sep 2022
	Microsoft , Redmond Research Intern	Jun 2020 - Sep 2020
	NVIDIA , Seattle Research Intern	Jan 2020 - May 2020
	M²AP Lab , Singapore Research Assistant	Jan 2016 - Aug 2018
	Meta Co , Redwood City Computer Vision and Graphics Intern	Jan 2015 - Dec 2015
	Hope Technik , Singapore Robotics Intern	May 2014 - Aug 2014

SERVICES	<p>Reviewer for CoRL, ICRA, IROS, RSS, T-HRI, RA-L, ACL, SIGGRAPH, ICCV, CVPR, TMLR, IJRR, IJCAI.</p> <p>Area Chair for CoRL 2024.</p>
TECHNICAL SKILLS	<p>Languages: Python (most familiar), C++</p> <p>Frameworks: PyTorch, OpenCV, ROS, Unity3D, MTurk</p>
ORGANIZER	<p>Co-Organizer: A Future Roadmap for Sensorimotor Learning at ICRA-24</p> <p>Co-Organizer: EAI Workshop at CVPR-23</p> <p>Co-Organizer: Language and Robot Learning (LangRob) Workshop at CoRL-22</p> <p>Co-Organizer: ALFRED and TEACH Challenge @ EAI Workshop at CVPR-22</p> <p>Co-Organizer: ALFRED Challenge @ EAI Workshop at CVPR-21</p> <p>Co-Organizer: Embodied Vision, Actions & Language Workshop (EVAL) at ECCV-20</p>
AWARDS & HONORS	<p>NVIDIA Graduate Fellowship (2022)</p> <p>Paul G. Allen Fellowship (2018), University of Washington</p> <p>Best Systems Paper Award in Memory of Seth Teller (2017), RSS</p> <p>NUS 30th Annual Faculty Innovation and Research Award (2016), Undergrad Thesis</p> <p>NUS Overseas College Scholarship (2015), Exchange Program at Stanford</p> <p>ASEANpreneurs Autodesk Design Challenge (2014), First Place</p>
INVITED TALKS	<p>Mila Robot Learning Seminar (May 2023)</p> <p>Stanford Vision and Learning Lab (May 2023)</p> <p>Boston Dynamics AI Institute (Feb 2023)</p> <p>RAIL Lab – Postdoc Job Talk @ Berkeley (Feb 2023)</p> <p>AIR Seminar @ UofT (Oct 2022)</p> <p>Machines in Motion Lab @ NYU (Oct 2022)</p> <p>AI & Analytics – Talk Series @ A*STAR (Aug 2022)</p> <p>iGibson Team @ Stanford (Mar 2022)</p> <p>CAIR Lab @ Columbia (Jan 2022)</p> <p>Language & Intelligence Group @ MIT (Dec 2021)</p> <p>Robotics Group @ Brown (Oct 2021)</p> <p>RAIVN Lab @ UW (Sept 2021)</p> <p>AdaComp Lab @ NUS (Oct 2021)</p>
GUEST LECTURES	<p>University of Minnesota</p> <p>Course: Deep Learning for Robot Perception (2023)</p>