

EDUCATION	Georgia Institute of Technology , Atlanta, GA	
	<i>Ph.D. in Computer Science</i>	Aug 2023 - Present (Expected Jan 2026)
	Advised by Dhruv Batra and Zolt Kira	
	Georgia Institute of Technology , Atlanta, GA	
	<i>M.S. in Computer Science</i>	Aug 2021 - May 2023
	Advised by Dhruv Batra and Abhishek Das	
	Pune Institute of Computer Technology , Pune, India	Aug 2015 - May 2018
	<i>Bachelor of Engineering in Information Technology</i>	
	Thesis: "Robots that Navigate to Objects: Simulation, Data, and Models"	
INTERNSHIPS	Apple , New York, NY	Jan 2025 - Aug 2025
	<i>Research Intern with Alex Toshev and Harsh Agrawal</i>	
	Built a scalable synthetic data generation pipeline to enable SFT and RL training using multi-modal LLM verifiers for computer use agents (mobile, desktop, and web).	
	FAIR, Meta , Seattle, WA	May 2024 - Aug 2024
	<i>Research Intern with Roozbeh Mottaghi</i>	
	Worked on training vision-language-action agents using reinforcement learning on synthetic rewards to collaborate and chat with humans to complete household tasks.	
	Allen Institute of AI (AI2) , Seattle, WA	May 2023 - Aug 2023
	<i>Research Intern with Luca Weihs, Kuo-Hao Zeng, and Aniruddha Kembhavi</i>	
	Built methods for tidying robots that can reason about object placement based on visual-context and common-sense reasoning in indoor environments.	
	Mitsubishi Electric and Research Laboratories , Boston, MA	May 2022 - Aug 2022
	<i>Research Intern with Anoop Cherian</i>	
	Worked on indoor semantic navigation using scene graph representations for end-to-end learning.	
	Machine Learning and Perception Lab, GT , Atlanta, GA	April 2020 - July 2021
	<i>Research Intern with Dhruv Batra, and Abhishek Das</i>	
	Built Habitat-Web, infrastructure to collect human demonstrations for embodied tasks at scale. Used it to scale training of indoor semantic navigation agents using IL and RL finetuning.	
AWARDS	ICLR Notable Reviewer Award	2025
	Georgia Tech Rising Star Doctoral Student Research Award (2 student from the College)	2023
	Georgia Tech CoC Outstanding MS Researcher (1 student from the College)	2022
	Runner up at Habitat Navigation Challenge	2021, 2022
PUBLICATIONS	[C16] Scaling Synthetic Task Generation for Agents via Exploration	
	R. Ramrakhya , A. Szot, O. Attia, B. Mazouze, A. Nguyen, Y. Yang, Z. Gan, H. Agrawal, A. Toshev	
	<i>Under Review at ICLR 2026</i>	
	[C15] UltraCUA: Scaling Computer Use Agent through GUI and Programmatic Control	
	Y. Yang, Z. Yang, Z. Dou, A. Nguyen, O. Attia, A. Szot, K. You, M. Feng, R. Ramrakhya , A. Toshev, C. Huang, Y. Yang, Z. Gan	
	<i>Under Review at ICLR 2026</i>	

- [C14] **Ferret-UI Lite: Lessons from Building Small On-Device GUI Agents**
Z. Yang, Z. Dou, D. Feng, F. Huang, A. Nguyen, K. You, O. Attia, Y. Yang, M. Feng, H. Zhang
R. Ramrakhya, C. Jia, J. Nichols, A. Toshev, Y. Yang, Z. Gan
Under Review at ICLR 2026
- [C13] **Grounding Multimodal LLMs to Embodied Agents that Ask for Help with Reinforcement Learning**
R. Ramrakhya, M. Chang, X. Puig, R. Desai, Z. Kira, R. Mottaghi
Under Review at ICLR 2026
- [C12] **PARTNR: A Benchmark for Planning and Reasoning in Embodied Multi-agent Tasks**
M. Chang, G. Chhablani, A. Clegg, M. Cote, R. Desai, M. Hlavac, V. Karashchuk, J. Krantz
R. Mottaghi, P. Parashar, S. Patki, I. Prasad, X. Puig, A. Rai, R. Ramrakhya, D. Tran, **J. Truong**
J. Turner, E. Undersander, T. Yang
International Conference on Learning Representations (ICLR), 2025
- [C11] **HM3D-OVON: A Dataset and Benchmark for Open-Vocabulary Object Goal Navigation**
N. Yokoyama*, **R. Ramrakhya***, A. Das, D. Batra, S. Ha
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2024
- [C10] **ReLIC: A recipe for 64k steps In-Context Reinforcement Learning for Embodied AI**
A. Elawady, G. Chhablani, **R. Ramrakhya**, K. Yadav, D. Batra, Z. Kira, A. Szot
Under Review
- [C9] **Seeing the Unseen: Visual Common Sense for Semantic Placement**
R. Ramrakhya, A. Kembhavi, D. Batra, Z. Kira, K. Zeng*, L. Weihs*
IEEE Computer Vision and Patter Recognition (CVPR), 2024
- [C8] **GOAT-Bench: A Benchmark for Multi-Modal Lifelong Navigation**
M. Khanna*, **R. Ramrakhya***, G. Chhablani, S. Yenamandra, T. Gervet, M. Chang, Z. Kira,
D. Chaplot, D. Batra, R. Mottaghi
IEEE Computer Vision and Patter Recognition (CVPR), 2024
- [C7] **PIRLNav: Pretraining with Imitation and RL Finetuning for ObjectNav**
R. Ramrakhya, D. Batra, E. Wijmans, A. Das
IEEE Computer Vision and Patter Recognition (CVPR), 2023
- [C6] **OVRL-v2: Semantic Navigation without Semantic Mapping or Detection**
K. Yadav*, A. Majumdar*, **R. Ramrakhya**, A. Baevski, Z. Kira, O. Makysmets, D. Batra
arXiv preprint arXiv:2303.07798, 2023
- [C5] **Curriculum Learning via Task Selection for Embodied Navigation**
R. Ramrakhya, D. Batra, A. Kembhavi, L. Weihs
Embodied AI Workshop, CVPR 2023, 2023
- [C4] **Offline Visual Representation Learning for Embodied Navigation**
K. Yadav, **R. Ramrakhya**, A. Majumdar, V. Berges, S. Kuhar, D. Batra, A. Baevski, O. Makysmets
Reincarnating Reinforcement Learning Workshop, ICLR 2023
- [C3] **Habitat-Matterport 3D Semantics Dataset**
K. Yadav*, **R. Ramrakhya***, S. Ramakrishnan*, T. Gervet, J. Turner, A. Gokaslan, N. Maestre,
A. Chang, D. Batra, M. Savva, A. Clegg, D. Chaplot
IEEE Computer Vision and Patter Recognition (CVPR), 2023

	<p>[C2] Habitat-Web: Learning Embodied Object-Search Strategies from Human Demonstrations at Scale R. Ramrakhya, E. Undersander, D. Batra, A. Das <i>IEEE Computer Vision and Patter Recognition (CVPR), 2022</i></p> <p>[C1] Fabrik: An Online Collaborative Neural Network Editor U. Garg, V. Prabhu, D. Yadav, R. Ramrakhya, H. Agarwal, D. Batra <i>Systems for ML Workshop 2019</i></p>	
INVITED TALKS	<p>Habitat-Web: Embodied Object-Search Strategies from Human Demonstrats at Scale <i>Overlooked Aspects of IL Workshop at RSS</i></p> <p>Seeing the Unseen: Visual Common Sense for Semantic Placement <i>University of Washington RAVIN AI/ML Seminar</i></p>	<p>June 2022</p> <p>Jan 2024</p>
WORK EXPERIENCE	<p>Glance, Bangalore, KA</p> <p><i>Software Development Engineer 2</i></p> <ul style="list-style-type: none"> Built a content creation platform from scratch, built content extraction from web using heuristic based crawlers, and used image captioning models to automated content filtering at scale. The tool helps streamline creation of ~10,000 glance stories and saves ~150 hours of manual effort by each content designer monthly. Worked on optimizing large-scale data pipelines and content serving infrastructure, that serves 150 million users and ingests 10TB data every day to save ~20k\$ in monthly infrastructure cost. 	<p>Jun 2018 - Jul 2021</p>
	<p>CloudCV, Atlanta, GA</p> <p><i>Open Source Organization Lead</i></p> <ul style="list-style-type: none"> Led a team of 15+ collaborators to work on EvalAI, an open-source platform to create and participate in AI challenges. Collaborated closely with 30+ organizations including Meta, Google, Amazon, etc to host 200+ AI challenges for top tier AI conferences. 	<p>Jan 2021 - Jul 2022</p>
OPEN SOURCE PROJECTS	<p>Eval.AI [github.com/Cloud-CV/EvalAI]</p> <ul style="list-style-type: none"> Platform to create, collaborate and participate in the AI Challenges organized around the globe. <p>Fabrik [github.com/Cloud-CV/Fabrik]</p> <ul style="list-style-type: none"> Collaborative platform to build, visualize and train deep learning models via a simple drag-and-drop interface. 	<p>2020-2022</p> <p>2018-2020</p>
PROFESSIONAL	<p>Workshop Organization</p> <p>5th EmbodiedAI Workshop at CVPR</p> <p>Vision and Language Algorithmic Reasoning Workshop at ICCV</p> <p>Challenge Organization</p> <p>HomeRobot: Open Vocabulary Mobile Manipulation (OVMM) Challenge at NeurIPS</p> <p>Habitat Navigation Challenge 2023 at Embodied AI Workshop, CVPR</p> <p>Habitat Navigation Challenge 2023 at Embodied AI Workshop, CVPR</p> <p>Reviewing</p> <p>International Conference on Machine Learning (ICML)</p> <p>International Conference on Learning Representations (ICLR)</p> <p>Neural Information Processing Systems (NeurIPS)</p>	<p>2024</p> <p>2023</p> <p>2023</p> <p>2023</p> <p>2023</p> <p>2023, 2025</p> <p>2023, 2024</p>

IEEE Robotics and Automation Letters (RA-L)	2023
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Advising

Gunjan Chhablani (MS Georgia Tech → Waymo); Publication [C4]	2023
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Archana Kutumbaka (MS Georgia Tech → Adobe)	2023
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Google Summer of Code (7 mentors)	2021
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Google Summer of Code (9 undergraduate students)	2019-2021
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Google Code-In (15 high-school students)	2018-2019
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