
EDUCATION	Georgia Institute of Technology , Atlanta, GA <i>Ph.D. in Computer Science</i> Advised by Dhruv Batra and Zsolt Kira Aug 2023 - Present
	Georgia Institute of Technology , Atlanta, GA <i>M.S. in Computer Science</i> Advised by Dhruv Batra and Abhishek Das Aug 2021 - May 2023
	Pune Institute of Computer Technology , Pune, India <i>Bachelor of Engineering in Information Technology</i> Aug 2015 - May 2018
INTERNSHIPS	Allen Institute of AI (AI2) , Seattle, WA <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. May 2023 - Aug 2023
	Mitsubishi Electric and Research Laboratories , Boston, MA <i>Research Intern with Anoop Cherian</i> Worked on indoor semantic navigation using scene graph representations for end-to-end learning. May 2022 - Aug 2022
	Machine Learning and Perception Lab, GT , Atlanta, GA <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. April 2020 - July 2021
AWARDS	Georgia Tech Rising Star Doctoral Student Research Award (1 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
CONFERENCE PUBLICATIONS	[C5] Seeing the Unseen: Visual Common Sense for Semantic Placement R. Ramrakhya , A. Kembhavi, D. Batra, Z. Kira, K. Zeng*, L. Weihs* <i>IEEE Computer Vision and Patter Recognition (CVPR), 2024</i>
	[C4] 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 <i>IEEE Computer Vision and Patter Recognition (CVPR), 2024</i>
	[C3] PIRLNav: Pretraining with Imitation and RL Finetuning for ObjectNav R. Ramrakhya , D. Batra, E. Wijmans, A. Das <i>IEEE Computer Vision and Patter Recognition (CVPR), 2023</i>
	[C2] 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 <i>IEEE Computer Vision and Patter Recognition (CVPR), 2023</i>
	[C1] 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>
WORKSHOP PAPERS	[W4] Curriculum Learning via Task Selection for Embodied Navigation R. Ramrakhya , D. Batra, A. Kembhavi, L. Weihs <i>Embodied AI Workshop, CVPR 2023</i>
	[W3] PIRLNav: Pretraining with Imitation and RL Finetuning for ObjectNav R. Ramrakhya , D. Batra, E. Wijmans, A. Das <i>Reincarnating Reinforcement Learning Workshop, ICLR 2023</i>
	[W2] 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

[W1] **Habitat-Web: Learning Embodied Object-Search Strategies from Human Demonstrations at Scale**
R. Ramrakhya, E. Undersander, D. Batra, A. Das
Embodied AI Workshop (CVPR 2022), Overlooked Aspects of IL Workshop (RSS 2022)

PREPRINT [P1] **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

INVITED TALKS **Habitat-Web: Embodied Object-Search Strategies from Human Demonstrats at Scale**
Overlooked Aspects of IL Workshop at RSS June 2022

Seeing the Unseen: Visual Common Sense for Semantic Placement
University of Washington RAVIN AI/ML Seminar Jan 2024

WORK EXPERIENCE **Glance**, Bangalore, KA Jun 2018 - Jul 2021
Software Development Engineer 2

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.

CloudCV, Atlanta, GA Jan 2021 - Jul 2022
Open Source Organization Lead

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.

SIDE PROJECTS **Eval.AI** [github.com/Cloud-CV/EvalAI] 2020-2022
Platform to create, collaborate and participate in the AI Challenges organized around the globe.

Fabrik [github.com/Cloud-CV/Fabrik] 2018-2020
Collaborative platform to build, visualize and train deep learning models via a simple drag-and-drop interface.

PROFESSIONAL **Workshop Organization**
5th EmbodiedAI Workshop at CVPR 2024
Vision and Language Algorithmic Reasoning Workshop at ICCV 2023

Challenge Organization
HomeRobot: Open Vocabulary Mobile Manipulation (OVMM) Challenge at NeurIPS 2023
Habitat Navigation Challenge 2023 at Embodied AI Workshop, CVPR 2023
Habitat Navigation Challenge 2023 at Embodied AI Workshop, CVPR 2022

Reviewing
International Conference on Machine Learning (ICML) 2024
International Conference on Learning Representations (ICLR) 2023
Neural Information Processing Systems (NeurIPS) 2023
IEEE Robotics and Automation Letters (RA-L) 2023

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