www.andrewszot.com

EDUCATION

Georgia Institute of Technology Ph.D. in Machine Learning Advised by Dhruv Batra and Zsolt Kira

University of Southern California B.S. in Computer Science, Minor in Mathematics Trustee Full Tuition Scholarship

PAPERS

Aug 2020 - Present

Aug 2016 - May 2020

- [12] "Large Language Models as Generalizable Policies for Embodied Tasks"
 A. Szot, M. Schwarzer, H. Agrawal, B. Mazoure, W. Talbott, K. Metcalf, N. Mackraz, D. Hjelm, A. Toshev International Conference on Learning Representations (ICLR), 2024 [pdf]
- [11] "Habitat 3.0: A Co-Habitat for Humans, Avatars and Robots" X. Puig*, E. Undersander*, A. Szot*, M. Cote*, T. Yang*, R. Partsey*, R. Desai*, A. Clegg, M. Hlavac, S. Min, V. Vondruš, T. Gervet, V. Berges, J. M. Turner, O. Maksymets, Z. Kira, M. Kalakrishnan, J. Malik, D. Singh Chaplot, U. Jain, D. Batra, A. Rai, R. Mottaghi (* - equal contribution) International Conference on Learning Representations (ICLR), 2024 [pdf]
- [10] "Skill Transformer: A Monolithic Policy for Mobile Manipulation"
 H. Huang, D. Batra, A. Rai, A. Szot, International Conference on Computer Vision (ICCV), 2023 [pdf]
- [9] "An Extensible, Data-Oriented Architecture for High-Performance, Many-World Simulation"
 B. Shacklett, L. G. Rosenzweig, Z. Xie, B. Sarkar, A. Szot, E. Wijmans, V. Koltun, D. Batra, K. Fatahalian SIGGRAPH, 2023 [pdf]
- [8] "Adaptive Coordination in Social Embodied Rearrangement"
 A. Szot, U. Jain, D. Batra, Z. Kira, R. Desai, A. Rai International Conference on Machine Learning (ICML), 2023 [pdf]
- [7] "Galactic: Scaling End-to-End Reinforcement Learning for Rearrangement at 100k Steps-Per-Second"
 V. Berges*, A. Szot*, D. Chaplot, A. Gokaslan, R. Mottaghi, D. Batra, E. Undersander (* equal contribution)
 Conference on Computer Vision and Pattern Recognition (CVPR), 2023 [pdf]
- [6] "BC-IRL: Learning Generalizable Reward Functions from Demonstrations" A. Szot, A. Zhang, D. Batra, Z. Kira, F. Meier International Conference on Learning Representations (ICLR), 2023 [pdf] Spotlight, top 8% of 4900 submissions
- [5] "Retrospectives on the Embodied AI Workshop "
 M. Deitke, D. Batra, ..., A. Szot, ..., L. Weihs, J. Wu arXiv preprint, 2022 [pdf]
- [4] "Housekeep: Tidying Virtual Households using Commonsense Reasoning"
 Y. Kant, A. Ramachandran, S. Yenamandra, I. Gilitschenski, D. Batra, A. Szot*, H. Agrawal* (* equal advising)
 European Conference on Computer Vision (ECCV), 2022 [pdf]
- [3] "Habitat 2.0: Training Home Assistants to Rearrange their Habitat"
 A. Szot, A. Clegg, E. Undersander, E. Wijmans, Y. Zhao, J. Turner, N. Maestre, M. Mukadam, D. Chaplot, O. Maksymets, A. Gokaslan, V. Vondrus, S. Dharur, F. Meier, W. Galuba, A. Chang, Z. Kira, V. Koltun, J. Malik, M. Savva, D. Batra Neural Information Processing Systems (NeurIPS), 2021 [pdf]
 Spotlight, top 3% of 9122 submissions
- [2] "Generalizable Imitation Learning from Observation via Inferring Goal Proximity" Y. Lee*, A. Szot*, S. Sun and J. J. Lim (* - equal contribution) Neural Information Processing Systems (NeurIPS), 2021 [pdf]

AWARDS

NVIDIA Graduate Fellowship Finalist	2023
• GT Institute-Wide Online Teaching Assistant of the Year: For grad de	ep learning course. Fall 2021
• NSF GRFP Honorable Mention 2021	
• USC Viterbi Fellowship: Research funding given to the top 20 engineering s	students per class. 2016-2020
• USC Trustee Scholarship: Full tuition scholarship.	2016-2020
• USC Provost Fellowship: Merit based fellowship for summer research funding	ng. 2019
EXPERIENCE	
Apple Machine Learning Research Research Scientist Intern Advisor: Dr. Alexander Toshev Worked on large language models and reinforcement learning for embodied AI (publ	Feb 2023 – Feb 2024
Meta AI Research Research Scientist Intern	May 2022 – December 2022
Advisor: Dr. Akshara Rai and Dr. Ruta Desai Worked on multi-agent reinforcement learning (published at ICML 2023).	May 2022 – December 2022
Facebook AI Research Research Scientist Intern Advisor: Dr. Franziska Meier	May 2021 – December 2021
Researched generalization in inverse reinforcement learning (published at ICLR 2023	3).
CLVR Lab, University of Southern California	August 2018 – June 2020
Advisor: Prof. Joseph J. Lim Researched imitation from observation (published at NeurIPS 2021), generalization to learning (published at ICML 2020), and benchmarks for tool usage and physical reas	
Airbnb Software Engineering Intern Deployed a model to production that predicted and took automated action against Scikit-learn, XGBoost, Hive and Presto, resulting in a 50% reduction in account tak	
Media Communications Lab, University of Southern California(d)Advisor: Prof. C.C. Jay KuoResearched weakly supervised CNNs using clustering approaches to pre-train.	October 2016 – December 2017
eBay Software Engineering Intern Delivered a data analytics platform using Scala, Spark, Hadoop and Druid to proces	May 2017 – August 2017 s petabytes of eBay metrics.
SERVICE AND TEACHING	
Workshop / Challenge Organization	
• Lead organizer of NeurIPS 2022 "Habitat Rearrangement Challenge" [link]	2022
• Organizer at Embodied AI Workshop at CVPR 2022	2022
Teaching	
• Graduate Deep Learning Teaching Assistant (CS 7643, won outstanding TA aw	vard) Fall 2021
Reviewing	
• NeurIPS [2022,2023], ICLR [2022,2024], ICML 2023, ICCV 2021, IROS 2021, C	CVPR 2022
Mentoring	
• Haytham Huang (GT Undergraduate) Mentored on "Skill Transformer: A Monolithic Policy for Mobile Manipulation"	Spring 2022 – Spring 2023 ' (ICCV 2023).
• Abhinav Harish (GT Masters)	Spring 2022 – Present
• Sriram Yenamandra (GT Masters):	Fall 2021 – Fall 2022

Mentored on "Housekeep: Tidying Virtual Households using Commonsense Reasoning" (ECCV 2022).

Arun Ramachandran (GT Masters)
 Fall 2021 – Fall 2022
 Mentored on "Housekeep: Tidying Virtual Households using Commonsense Reasoning" (ECCV 2022).

SELECTED PRESS COVERAGE

- "Meta's Habitat 3.0 simulates real-world environments for intelligent AI robot training", by Mike Wheatley, *Silicon Angle*, Oct 20, 2023 [link]
- "Embodied AI spins a pen and helps clean the living room in new research", by Devin Coldewey, *Tech Crunch*, Oct 20, 2023 [link]
- "How Facebook's AI is training home robots to tackle the chores you hate", by Katie Collins, *CNET*, Jun 30, 2021 [link]
- "Facebook updates Habitat environment to train 'embodied AI", by Kyle Wiggers, *VentureBeat*, Jun 30, 2021 [link]