

EDUCATION

Georgia Institute of Technology

Ph.D. in Machine Learning

Advised by Dhruv Batra and Zsolt Kira

Aug 2020 – May 2025

University of Southern California

B.S. in Computer Science, Minor in Mathematics

Trustee Full Tuition Scholarship

Aug 2016 – May 2020

PAPERS

- [16] “From Multimodal LLMs to Generalist Embodied Agents: Methods and Lessons”
A. Szot, B. Mazoure, O. Attia, A. Timofeev, H. Agrawal, D. Hjelm, Z. Gan, Z. Kira, A. Toshev
Conference on Computer Vision and Pattern Recognition (CVPR), 2025 [pdf]
Spotlight, top 0.7% of 13,008 submissions
- [15] “ReLIC: A Recipe for 64k Steps of In-Context Reinforcement Learning for Embodied AI”
A. Elawady, G. Chhablani, R. Ramrakhya, K. Yadav, D. Batra, Z. Kira, **A. Szot**
arXiv preprint, 2024 [pdf]
- [14] “Reinforcement Learning via Auxiliary Task Distillation”
A. Harish, L. Heck, J. Hanna, Z. Kira, **A. Szot**
European Conference on Computer Vision (ECCV), 2024 [pdf]
- [13] “Grounding Multimodal Large Language Models in Actions”
A. Szot, B. Mazoure, H. Agrawal, D. Hjelm, Z. Kira, A. Toshev
Neural Information Processing Systems (NeurIPS), 2024 [pdf]
- [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, J. Lim (* - equal contribution)
Neural Information Processing Systems (NeurIPS), 2021 [pdf]
- [1] “Generalization to New Actions in Reinforcement Learning”
A. Jain*, **A. Szot***, J. Lim (* - equal contribution)
International Conference on Machine Learning (ICML), 2020 [pdf]

EXPERIENCE

- Apple Machine Learning Research** *Research Scientist Intern* *Feb 2023 – Now*
Advisor: Dr. Alexander Toshev
Working on adapting multimodal large language models for decision making and embodiment (published at ICLR 2024, NeurIPS 2024, another work under submission).
- Meta AI Research** *Research Scientist Intern* *May 2022 – Dec 2022*
Advisor: Dr. Akshara Rai and Dr. Ruta Desai
Worked on multi-agent reinforcement learning (published at ICML 2023).
- Facebook AI Research** *Research Scientist Intern* *May 2021 – Dec 2021*
Advisor: Dr. Franziska Meier
Researched generalization in inverse reinforcement learning (published at ICLR 2023).
- Airbnb** *Software Engineering Intern* *May 2018 – August 2018*
Deployed a model to production that predicted and took automated action against account takeover fraud using Scikit-learn, XGBoost, Hive and Presto, resulting in a 50% reduction in account takeover fraud.
- eBay** *Software Engineering Intern* *May 2017 – Aug 2017*
Delivered a data analytics platform using Scala, Spark, Hadoop and Druid to process petabytes of eBay metrics.

AWARDS

- **NVIDIA Graduate Fellowship Finalist** [link] *2023*
- **GT Institute-Wide Online Teaching Assistant of the Year:** For grad deep learning course. *Fall 2021*
- **NSF GRFP Honorable Mention** *2021*
- **USC Viterbi Fellowship:** Research funding given to the top 20 engineering students per class. *2016-2020*
- **USC Trustee Scholarship:** Full tuition scholarship. *2016-2020*
- **USC Provost Fellowship:** Merit based fellowship for summer research funding. *2019*

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 award) *Fall 2021*

Reviewing

- NeurIPS [2022,2023,2024], ICLR [2022,2024,2025], ICML [2023,2024], ICCV 2021, IROS 2021, CVPR 2022

Mentoring

- Ahmad Elawady (GT Masters)
Mentored on “ReLIC: A Recipe for 64k Steps of In-Context Reinforcement Learning for Embodied AI” (2024).
- Abhinav Harish (GT Masters)
Mentored on “Reinforcement Learning via Auxiliary Task Distillation” (ECCV 2024).
- Haytham Huang (GT Undergraduate)
Mentored on “Skill Transformer: A Monolithic Policy for Mobile Manipulation” (ICCV 2023).
- Sriram Yenamandra (GT Masters)
Mentored on “Housekeep: Tidying Virtual Households using Commonsense Reasoning” (ECCV 2022).
- Arun Ramachandran (GT Masters)
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*, 2021 [link]