

## EDUCATION

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**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

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- [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  
*arXiv preprint*, 2024 [pdf]
- [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

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**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

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- **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

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### 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

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- “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]