

## EDUCATION

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**Georgia Institute of Technology**

*Aug 2020 - Present*

Ph.D. in Machine Learning

Advised by Dhruv Batra and Zsolt Kira

**University of Southern California**

*Aug 2016 - May 2020*

B.S. in Computer Science, Minor in Mathematics

Trustee Full Tuition Scholarship

## PUBLICATIONS

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- [9] “Skill Transformer: A Monolithic Policy for Mobile Manipulation”  
H. Huang, D. Batra, A. Rai, **A. Szot**,  
*International Conference on Computer Vision (ICCV)*, 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] “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]
- [4] “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**
- [3] “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]
- [2] “Generalization to New Actions in Reinforcement Learning”  
A. Jain\*, **A. Szot\*** and J. J. Lim (\* - equal contribution)  
*International Conference on Machine Learning (ICML)*, 2020 [pdf]

## PREPRINTS

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- [1] “Retrospectives on the Embodied AI Workshop ”  
M. Deitke, D. Batra, ... **A. Szot**, ... , L. Weihs, J. Wu  
*arXiv preprint*, 2022 [pdf]

## AWARDS

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- **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

## EXPERIENCE

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**Apple Machine Learning Research** *Research Scientist Intern*

Feb 2023 - Present

Advisor: Dr. Alexander Toshev

**Meta AI Research** *Research Scientist Intern*

May 2022 - December 2022

Advisor: Dr. Akshara Rai and Dr. Ruta Desai

Working on multi-agent reinforcement learning (published at ICML 2023).

**Facebook AI Research** *Research Scientist Intern*

May 2021 - December 2021

Advisor: Dr. Franziska Meier

Researched generalization in inverse reinforcement learning (published at ICLR 2023).

**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 new actions in reinforcement learning (published at ICML 2020), and benchmarks for tool usage and physical reasoning in RL (web).

**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.

**Media Communications Lab, University of Southern California**

October 2016 – December 2017

Advisor: Prof. C.C. Jay Kuo

Researched weakly supervised CNNs using clustering approaches to pre-train.

**eBay** *Software Engineering Intern*

May 2017 – August 2017

Delivered a data analytics platform using Scala, Spark, Hadoop and Druid to process petabytes of eBay metrics.

## 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

- ICCV 2021, IROS 2021, ICLR 2022-, CVPR 2022, NeurIPS 2022-

### Mentoring

- Haytham Huang (GT Undergraduate) Spring 2022-Spring 2023  
Mentored on “Skill Transformer: A Monolithic Policy for Mobile Manipulation” (ICCV 2023).
- Abhinav Harish (GT Masters) Spring 2022-Present
- Sriram Yenamandra (GT Masters): Fall 2021-Present  
Mentored on “Housekeep: Tidying Virtual Households using Commonsense Reasoning” (ECCV 2022).
- Arun Ramachandran (GT Masters) Fall 2021-Present  
Mentored on “Housekeep: Tidying Virtual Households using Commonsense Reasoning” (ECCV 2022).

## SELECTED PRESS COVERAGE

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- “How Facebook’s AI is training home robots to tackle the chores you hate”, by Katie Collins, *CNET*, June 30, 2021 [link]
- “Facebook and Matterport collaborate on realistic virtual training environments for AI”, by Devin Coldewey, *Tech Crunch*, June 30, 2021 [link]
- “Facebook updates Habitat environment to train ‘embodied AI’”, by Kyle Wiggers, *VentureBeat*, June 30, 2021 [link]