

## Evan Z. Liu

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### Education

Stanford University, Stanford, CA 2013–2018, 2019–present

- Ph.D. candidate, Computer Science, focusing on Machine Learning, advised by Chelsea Finn
- M.S. ‘18, Computer Science, specializing in Artificial Intelligence and Networks & Security
- B.S. with Honors ‘18, Computer Science, Mathematics secondary major

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### Work and Research Experience

Google, *Student Researcher / Research Intern* 2019–present

- Proposed a new paradigm for cache replacement, leading to state-of-the-art results (ICML, 2020)

Google Brain, *AI Resident* 2018–2019

- Designed and implemented a hierarchical reinforcement learning algorithms for systematic exploration and fast transfer, which achieve state-of-the-art results (Exploration in RL workshop, ICML, 2019)

Stanford AI Lab / NLP Group, *Research Assistant with Percy Liang* 2016–2018

- Designed and implemented a novel reinforcement learning exploration algorithm that outperforms prior algorithms with 100x fewer demonstrations on web-based tasks (ICLR, 2018)
- Implemented state-of-the-art systems for executing natural language commands (ACL, 2017)

Bloomberg, *Software Intern* Summer 2015

- Created client-facing arbitrary keyword searching, filtering, and sorting on ticketing system

Stanford CS106 Section Leading, *Teaching Assistant (3 Quarters)* 2015–2017

- Led weekly one-hour session to teach computer science topics to Stanford students
- Graded assignments and exams, and gave feedback to students one-on-one

Stanford Openproof Logic, *Teaching Assistant and Software Developer* 2014–2015

- Developed and maintained automatic proof-writing software
- Collaborated on designing and launching a formal logic online course (average review 5/5, enrollment over 100), leading weekly office hours to present formal logic topics

Juniper Networks, *Software Intern* Summer 2014

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### Selected Publications and Awards

Decoupling Exploration and Exploitation for Meta-Reinforcement Learning without Sacrifices

**Evan Zheran Liu**, Aditi Raghunathan, Percy Liang, Chelsea Finn

*International Conference on Machine Learning (ICML)*, 2021

Just Train Twice: Improving Group Robustness without Training Group Information

**Evan Zheran Liu\***, Behzad Haghgoo\*, Annie S. Chen, Aditi Raghunathan, Pang Wei Koh, Shiori Sagawa, Percy Liang, Chelsea Finn

*International Conference on Machine Learning (ICML)*, 2021 (**Long talk; ~3% acceptance rate**)

An Imitation Learning Approach for Cache Replacement

**Evan Zheran Liu**, Milad Hashemi, Kevin Swersky, Parthasarathy Ranganathan, Junwhan Ahn

*International Conference on Machine Learning (ICML)*, 2020

Reinforcement Learning on Web Interfaces using Workflow-Guided Exploration

**Evan Zheran Liu\***, Kelvin Guu\*, Panupong Pasupat\*, Tianlin Shi, Percy Liang

*International Conference on Learning Representations (ICLR)*, 2018 (\* equal contribution)

Co-authored proposal for Stanford AI Lab seed funding (PIs: Percy Liang and Emma Brunskill)  
[funded for \$120K]

Co-authored proposal for Amazon Research Awards (PI: Percy Liang) [funded for \$100K]

Co-authored proposal for Google Faculty Research Awards (PI: Percy Liang) [funded for ~\$100K]

National Science Foundation (NSF) Graduate Research Fellowship Recipient, 2018

Reviewer services: ICML ‘20, ‘21, NeurIPS ‘20, ICLR ‘21\* (\* outstanding reviewer award)