

Education

Stanford University 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

Work and Research Experience

Google, *Student Researcher / Research Intern* 2019–2022

- Applied machine learning to systems problems, including scheduling, caching, and throughput estimation
- 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)

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

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

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, ‘21, ICLR ‘21* (* outstanding reviewer award)