Kevin Lu

Email: kzl@berkeley.edu | Github: kzl | LinkedIn: kzl
Personal Website: kzl.github.io | Google Scholar: Kevin Lu

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY | B.S. in Electrical Engineering and Computer Science

Aug 2018 – May 2022 (Expected) | Berkeley, CA

Selected coursework (GPA: 4.00/4.00): * denotes in progress, Fall 2020

Graduate-Level	CS 287	Advanced Robotics	CS 294-158	Deep Unsupervised Learning
	EE 290	Population Games*	STAT 210A	Theoretical Statistics*
	EE 226	Random Processes*		
Undergraduate-Level	CS 189	Machine Learning	EECS 126	Probability and Random Processes
	CS 188	Artificial Intelligence	EECS 127	Convex Optimization
	CS 170	Algorithms	CS 70	Discrete Math and Probability

RESEARCH

ROBOT LEARNING LAB | Undergraduate Researcher

June 2019 – Present | Berkeley, CA

Advised by Igor Mordatch and Pieter Abeel. Interested in decision making, reinforcement learning, multi-agent systems, deep learning, and artificial intelligence, particularly in the consideration of uncertainty in risk-critical sequential settings.

- "Adaptive Online Planning for Continual Lifelong Learning." Kevin Lu, Igor Mordatch, Pieter Abbeel. Contributed talk (~6% of accepted papers), NeurIPS 2019 Deep RL Workshop. [website]
  - AOP allows an agent to interpolate between model-based planning and model-free learning on the fly in difficult reset-free scenarios with changing dynamics, reducing planning computation/sample requirements by constraining the long-term regret.
- Reset-Free RL with Skill Discovery. Current work with Igor Mordatch, Aditya Grover, and Pieter Abbeel.

HEARST LAB | Undergraduate Researcher

Sept 2018 – Mar 2019 | Berkeley, CA

Worked with Katie Stasaski and Marti Hearst on developing an NLP tutoring system that adapts to the learner's style and types of mistakes. Personally worked on data collection and experimented with classification models (seq2seq, BERT, etc).

TEACHING

HEAD TEACHING ASSISTANT | UC Berkeley, EECS 126 Probability and Random Processes

Jan 2019 – Present | Berkeley, CA

Head TA for EECS 126 (Fa20). Responsible for organizing class logistics, managing course staff, communication with students, creating content, teaching section, holding office hours, grading, etc. Previously: EECS 126 TA (Fa19, Sp20); CS 70 Reader (Sp19).

PERSONAL PROJECTS

LIFELONG RL CODEBASE

Aug 2020 | Python

Pytorch codebase for lifelong, skill discovery, and model-based RL.

RL DYNAMICS MODEL SPECIALIZATION

Nov 2019 - May 2020 | Python | CS 294-158, 287 Class Project

New RL model learning method improving MB-policy optimization.

ESPORTS ANALYSIS

Oct 2019 | Python

Analyzed professional match stats from eSport League of Legends.

GOOGLE SHEETS CALENDAR

Aug 2018 – Sept 2018 | Javascript

Developed a todo-list/overview in Sheets that syncs with Calendar.

WORLD CUP ANALYSIS

July 2018 | Python, MySQL

Analyzed stats from the World Cup and created predictive models.

MISCELLANEOUS

HONORS & AWARDS

- Eta Kappa Nu (EECS Honors Society) 2019
  Top third of students with junior standing
- Kraft Award for Freshmen 2018
  Awarded to ~4% of UC Berkeley freshmen
- USACO, Platinum Rank (Algorithms) 2017
  Highest rank of USA Computing Olympiad
- FBLA, 2nd in US (Cyber Security) 2017
  Placed 2nd out of 200 at national competition

PROGRAMMING LANGUAGES

Primarily Python, some experience with: C/C++, Java, Javascript, MySQL