Kevin Lu

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY | B.S. in Electrical Engineering and Computer Science
Aug 2018 – May 2022 (Expected) | Berkeley, CA

- GPA: 4.00/4.00
- Selected Coursework: (* denotes in progress, Spring 2020)

Graduate-Level	CS 287	Advanced Robotics	CS 294-158	Deep Unsupervised Learning*
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
	CS 61A	SICP	CS 61C	Computer Architecture

RESEARCH

ROBOT LEARNING LAB | Undergraduate Researcher
June 2019 – Present | Berkeley, CA
Lead author of AOP, presented as a contributed talk at NeurIPS 2019 Deep RL. AOP allows an agent to interpolate between model-based planning and model-free learning on the fly in difficult reset-free settings with changing dynamics for reduced computation. Working with Igor Mordatch and Pieter Abbeel on utilizing uncertainty for more intelligent decision making.

- Kevin Lu, Igor Mordatch, Pieter Abbeel. "Adaptive Online Planning for Continual Lifelong Learning." NeurIPS 2019 Deep Reinforcement Learning Workshop (Contributed talk, ~6% of accepted papers) [website]

HEARST LAB | Undergraduate Researcher
Sept 2018 – Mar 2019 | Berkeley, CA
Worked with Katie Stasaski and Prof. Marti Hearst on developing a 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

UNIVERSITY OF CALIFORNIA, BERKELEY | Undergraduate Student Instructor
Jan 2019 – Present | Berkeley, CA

- Teaching assistant for EECS 126 Probability and Random Processes (Fall 2019, Spring 2020)
- Teaching discussion section, holding office hours/HW parties, grading exams/homework, and other course-related activities
- Also (Spring 2019): reader (grading homeworks, holding office hours/homework parties) for CS 70 Discrete Math and Probability, CS 70 CSM mentor teaching section twice/week, and a CS 70 tutor as part of CS 370

PERSONAL PROJECTS

POPULATION-BASED SPECIALIZATION MODEL TRAINING
Nov-Dec 2019 | Python | CS 287 Class Project
Developed new method leading to improved dynamics model learning for RL.

ESPORTS ANALYSIS
Oct 2019 | Python
Analyzed/visualized 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 historical stats from the World Cup and created predictive models.

MOVIE RECOMMENDER
May 2018 | C++
Implemented k-nearest-neighbors algorithm for movie recommendation.

MISCELLANEOUS

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

HONORS & AWARDS

- Eta Kappa Nu (Honors Society) 2019
  Top third of students with junior standing
- Codeforces, Expert Rating 2019
  Competitive programming platform
- Kraft Award for Freshmen 2018
  Awarded to ~4% of UC Berkeley freshmen
- USACO, Platinum Rank 2017
  Highest rank of USA Computing Olympiad
- Future Business Leaders of America, #2 in US for Cyber Security 2017
  Placed 2nd out of 200 national qualifiers