

# Alexander Li

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## Education

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### Carnegie Mellon University

PHD IN MACHINE LEARNING

Pittsburgh, PA

Aug. 2020

### University of California, Berkeley

4TH YEAR M.S. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, CLASS OF 2020

Berkeley, CA

Aug. 2019 - May 2020

B.S. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, CLASS OF 2019, HIGHEST HONORS

Aug. 2016 - May 2019

- GPA: 4.00
- Graduate Coursework: Computer Vision (A+), Deep Reinforcement Learning (A), Deep Unsupervised Learning (A+), Theoretical Statistics (A), Natural Language Processing (S), Machine Learning for Biology (S)
- Relevant Undergraduate Coursework: Machine Learning (A+), Artificial Intelligence (A+), Algorithms (A+), Probability/Stochastic Processes (A+), Convex Optimization (A+), Operating Systems (A), Internet Architecture (A+), Data Structures (A+), Machine Structures (A+)

## Experience

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### Berkeley Artificial Intelligence Research Lab

RESEARCHER

Berkeley, CA

Jan. 2018 - May 2020

- Advised by Professor Pieter Abbeel and Lerrel Pinto
- Research focus: deep reinforcement learning and deep unsupervised learning. Currently working on hierarchical and multitask algorithms.

### UC Berkeley

STUDENT INSTRUCTOR: CS 294-158, *Graduate Deep Unsupervised Learning*

Berkeley, CA

Spring 2020

- Class covers theory and applications of likelihood-based models, implicit models, and representation learning.

STUDENT INSTRUCTOR (HEAD OF CONTENT): EECS 126, *Probability and Random Processes*

Fall 2019

- Gave lectures and created new homeworks, discussions, labs, and exams, while teaching and holding office hours for a class of 200 students.

STUDENT INSTRUCTOR: CS 188, *Introduction to Artificial Intelligence*

Fall 2018, Spring 2019

- Taught 2 discussions of 30 students each, held office hours, and developed projects and exams for a class of 750 students.

### Machine Learning at Berkeley

PROJECT MANAGER, AUTOQUAD

Berkeley, CA

Jan. 2018 - May 2018

- Led team of six members to improve the performance of long-term route planning for autonomous quadcopter drones.
- Designed computer vision and reinforcement learning algorithms to train drones to follow specified targets.

MACHINE LEARNING ENGINEER, WISH INC.

Aug. 2017 - Dec. 2017

- Developed computer vision algorithms to score user-uploaded images at production-level timescales using bounding box neural nets.

## Research

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### PROJECTS & PUBLICATIONS

- 2020 **Generalized Hindsight for Reinforcement Learning**, A. Li, L. Pinto, and P. Abbeel. *NeurIPS* 2020.
- 2019 **Sub-policy Adaptation for Hierarchical Reinforcement Learning**, A. Li\*, C. Florensa\*, I. Clavera, and P. Abbeel. *ICLR* 2020
- 2019 **Autoregressive Models: What Are They Good For?**, M. Dalal\*, A. Li\*, R. Taori\*.
  - Class project for Deep Unsupervised Learning, presented at NeurIPS 2019 Workshop on Information Theory and Machine Learning.
- 2015 **Sunspot Rotation and the M-Class Flare in Solar Active Region NOAA 11158**, A. Li and Y. Liu in *Solar Physics* 2015.

## Honors & Awards

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- 2020 **National Science Foundation Graduate Research Fellowship**
- 2019 **1st Place**, Citadel San Francisco Invitational Data Open, best out of 40 teams and 300 applicants.
- 2019 **Sole 2019 Recipient**, Mark D. Weiser Excellence in Computing Scholarship at UC Berkeley
- 2018 **Accel Scholar**, Selected for cohort of 25 students for achievement in technology and entrepreneurship.
- 2017 **Cal Alumni Association Leadership Award**, Recognizes Berkeley undergraduates for initiative-driven leadership.
- 2016 **Regents' and Chancellor's Scholar**, Awarded to top <2% of entering undergraduate students at UC Berkeley