

# Kevin Lu

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## Education

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### University of California, Berkeley

B.S. in Electrical Engineering and Computer Sciences, GPA: 3.95/4.00

Aug 2018 - Aug 2021

## Experience

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### Facebook Artificial Intelligence Research

AI Resident | Advisors: Amy Zhang, Yuandong Tian

Aug 2021 - Sept 2022

Working on reinforcement learning in a one-year industry student researcher position.

### Robot Learning Lab

Undergraduate Researcher | Advisors: Igor Mordatch, Pieter Abbeel

June 2019 - Aug 2021

Worked on universal models and general approaches for reinforcement learning and sequential modeling.

### Hearst Lab

Undergraduate Researcher | Advisors: Katie Stasaski, Marti Hearst

Sept 2018 - Mar 2019

Worked in an engineering role on an automated tutoring project leveraging language models and online data collection.

## Publications

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### "Decision Transformer: Reinforcement Learning via Sequence Modeling."

L. Chen\*, K. Lu\*, A. Rajeswaran, K. Lee, A. Grover, M. Laskin, P. Abbeel, A. Srinivas<sup>†</sup>, I. Mordatch<sup>†</sup>.  
arXiv preprint 2021.

### "Pretrained Transformers as Universal Computation Engines."

K. Lu, A. Grover, P. Abbeel, I. Mordatch.  
arXiv preprint 2021.

### "Reset-Free Lifelong Learning with Skill-Space Planning."

K. Lu, A. Grover, P. Abbeel, I. Mordatch.

International Conference on Learning Representations, 2021. Contributed talk at NeurIPS 2020 Deep RL Workshop.

### "Efficient Empowerment Estimation for Unsupervised Stabilization."

R. Zhao, K. Lu, P. Abbeel, S. Tiomkin.

International Conference on Learning Representations, 2021.

### "Adaptive Online Planning for Continual Lifelong Learning."

K. Lu, I. Mordatch, P. Abbeel.

Contributed talk at NeurIPS 2019 Deep RL Workshop.

\* denotes equal contribution. <sup>†</sup> denotes equal advising.

## Teaching

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### University of California, Berkeley

Head Teaching Assistant, Probability and Random Processes (EECS 126)

Aug 2020 - May 2021

Head TA for UC Berkeley's upper division probability course, responsible for organizing course and content creation.

Teaching Assistant, Probability and Random Processes (EECS 126)

Aug 2019 - May 2020

TA for UC Berkeley's upper division probability course, responsible for teaching discussion and grading.

**Reader, Discrete Math and Probability (CS 70)**

Grading assistant for UC Berkeley's introductory discrete math and probability course.

Jan 2019 - May 2019

## Academic Activities

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**Conference Reviewer:** NeurIPS, ICLR

## Invited Talks

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<b>Intel AI Labs:</b> "Decision Transformer: Reinforcement Learning via Sequence Modeling."	July 2021
<b>Eindhoven RL Seminar:</b> "Decision Transformer: Reinforcement Learning via Sequence Modeling."	July 2021
<b>IBM:</b> "Pretrained Transformers as Universal Computation Engines."	Apr 2021
<b>Facebook AI Research:</b> "Pretrained Transformers as Universal Computation Engines."	Apr 2021
<b>Berkeley Vision Group:</b> "Pretrained Transformers as Universal Computation Engines."	Apr 2021
<b>Cohere:</b> "Pretrained Transformers as Universal Computation Engines."	Mar 2021

## Selected Coursework

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**CS 294:** Deep Unsupervised Learning  
**CS 288:** Natural Language Processing  
**CS 287:** Advanced Robotics  
**EE 290:** Theory of Bandits and Reinforcement Learning  
**EE 290:** Population Games  
**Stat 240:** Robust and Nonparametric Statistics  
**Stat 210A:** Theoretical Statistics  
**CS 189:** Machine Learning  
**CS 188:** Artificial Intelligence  
**EECS 127:** Convex Optimization  
**EECS 126:** Probability and Random Processes