

# Kurtland Chua

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## Education

### Ph.D. in Computer Science

2019-Present

Princeton University

### B.S. Electrical Engineering and Computer Sciences

2015-2019

University of California, Berkeley

GPA: 4.00/4.00

*Graduated with Highest Honors*

Relevant Coursework (\* indicates graduate coursework):

High-Dimensional Statistics\*, Deep Reinforcement Learning\*, Theoretical Statistics\*, Differentiable Manifolds\*, Topology and Analysis\*, Machine Learning, Probability/Random Processes, Optimization, Algebraic Topology, Honors Real Analysis, Honors Complex Analysis

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## Research

### Research Intern

06/2019 - 08/2019

Facebook Artificial Intelligence Research

Supervised by Roberto Calandra. Worked towards a method for inferring hierarchies from data for use in downstream long-horizon planning tasks.

### Undergraduate Researcher

09/2016 - 05/2019

Berkeley Artificial Intelligence Research Laboratory

Supervised by Professor Sergey Levine, Roberto Calandra, and Rowan McAllister. Worked on developing data-efficient reinforcement learning algorithms, focusing on deep model-based methods.

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## Publications

**Kurtland Chua**, Rowan McAllister, Roberto Calandra, Sergey Levine. (2018) "Unsupervised Exploration with Deep Model-Based Reinforcement Learning."

*NeurIPS 2018 Workshop on Deep Reinforcement Learning*

**Kurtland Chua**, Roberto Calandra, Rowan McAllister, Sergey Levine. (2018) "Deep Reinforcement Learning in a Handful of Trials Using Probabilistic Dynamics Models."

*Neural Information Processing Systems (NeurIPS) 2018 (Spotlight presentation, ~4% of submitted papers).*

*ICML 2018 Workshop on Planning and Learning (Oral Presentation)*

*ICML 2018 Workshop on Prediction and Generative Modeling in Reinforcement Learning*

*IROS 2018 Workshop on Machine Learning in Robot Motion Planning (Oral Presentation)*

*NIPS 2017 Workshop on Acting and Interacting in the Real World: Challenges in Robot Learning*

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## Talks

"Deep Reinforcement Learning in a Handful of Trials Using Probabilistic Dynamics Models."

*Bay Area Machine Learning Symposium (Baylearn).* October 2018.

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## Teaching

Probability and Random Processes (EECS 126, UC Berkeley)

Fall 2018, Spring 2019

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# Honors

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National Science Foundation Graduate Research Fellowship	April 2019
EECS Major Citation	May 2019
UC Berkeley EECS Honors Program (Concentration in Mathematics)	January 2019
NVIDIA Pioneer Award	December 2018
<ul style="list-style-type: none"><li>Awarded for <i>Deep Reinforcement Learning in a Handful of Trials using Probabilistic Dynamics Models</i> at NeurIPS 2018 (one of eight awards).</li></ul>	
Phi Beta Kappa (Honors Society)	May 2018
<ul style="list-style-type: none"><li>One of twenty-one invited third-year Berkeley students in 2018.</li></ul>	
Quantedge Award for Academic Excellence	March 2018
<ul style="list-style-type: none"><li>Awarded to Berkeley students of senior standing with a 4.0 GPA.</li></ul>	
College of Engineering Dean's Honors List	
<ul style="list-style-type: none"><li>Fall 2015, 2016, 2018; Spring 2016, 2017, 2018.</li></ul>	
Edward Kraft Award for Freshmen	December 2015
<ul style="list-style-type: none"><li>Awarded to first-year students with a 4.0 GPA at the end of their first semester.</li></ul>	