

# ANGELINA WANG

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## EDUCATION

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### University of California, Berkeley

B.S. Electrical Engineering and Computer Science  
Minor in Philosophy

*(anticipated) May 2019*

Major GPA: 3.95

### University of Cambridge

Summer study abroad: Philosophy

*June 2016 - August 2016*

### Honors

Mark D. Weiser Excellence in Computing Scholarship (Merit-based award for 1-2 students in Berkeley EECS)  
Regents and Chancellors' Scholar (top 2% of incoming class)

Member of Eta Kappa Nu (Electrical and Computer Engineering Honors Society)

Member of Tau Beta Pi (Engineering Honors Society)

Berkeley EECS Honors Program

## TECHNICAL SKILLS

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### Computer Languages

Python, C++, C, Java, JavaScript, SQL, HTML, CSS, Swift

### Software & Tools

PyTorch, TensorFlow, Git, Unix, LaTeX, Vim, ROS (Robot Operating System)

## EXPERIENCE

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### BAIR (Berkeley Artificial Intelligence Research) Lab

*Undergraduate Researcher*

August 2017 - Present

*Berkeley, CA*

- Work in Pieter Abbeel's Robot Learning Lab with postdoc Aviv Tamar on building interpretable machine learning algorithms

### Human Rights Investigation Lab of Berkeley Law School

*Technical Investigator*

August 2018 - Present

*Berkeley, CA*

- Develop hate speech monitoring dashboards across platforms for teams on the ground in Sub-Saharan Africa
- Assist in content analysis of bot tweets targeting women's reproductive rights activists
- (Continuation of Archer work)

### Archer (Technology Nonprofit, [archerimpact.com](http://archerimpact.com))

*Engineering Lead*

January 2017 - October 2018

*Berkeley, CA*

- Use Node and React to build a web application based off responses to extensive user interviews that allows for an entirely new way to conduct open source investigations
- Visualize public data and create adjacency matrix scheme to manipulate entity connections using D3
- Presented products to government officials in Washington D.C. and at RightsCon 2018 in Toronto

### Google, Inc.

*Engineering Practicum Intern*

May 2017 - August 2017

*Seattle, WA*

- Worked on infrastructure team to improve Streaming Flume, the internal streaming data processing system
- Implemented hot key detection and mitigation to parallelize bottlenecks in the pipeline
- Created a protocol buffer communication channel for key heat information between manager and worker nodes

## PUBLICATIONS

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**Learning Robotic Manipulation through Visual Planning and Acting** ICRA 2019 (in review)  
*A. Wang, T. Kurutach, A. Tamar, P. Abbeel*

- Propose a self-supervised, data-driven approach to planning robotic manipulation on deformable objects
- Using a Causal InfoGAN model to generate a visual plan, we use a PR2 to execute actions with a learned inverse control model
- 4 NeurIPS (NIPS) 2018 workshop appearances: oral presentation at Modeling the Physical World (5% acceptance), Deep RL (9% acceptance), poster presentations at Causal Learning, Infer2Control

**Safer Classification by Synthesis** NIPS 2017 Aligned AI Workshop  
*W. Wang, A. Wang, A. Tamar, X. Chen, P. Abbeel*

- Propose a new computer vision method to perform image classification using generative models
- By learning distribution of known data, can threshold out-of-distribution images to perform novelty detection

## TEACHING

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**Machine Learning @ Berkeley** July 2018 - Present  
*Education Officer* Berkeley, CA

- Teach, develop content for, and create homeworks for introductory 2-unit deep learning course of 200 students
- Prepare and host workshops and coding demonstrations for the general community

**Robot Learning Lab Outreach** July 2018 - Present  
*Lead* Berkeley, CA

- Give robot demonstrations, content presentations, and lab tours to different groups visiting

**Introduction to Machine Learning (CS189/289A)** January 2018 - May 2018  
*Academic Intern* Berkeley, CA

- Help to write and debug homework problems and solutions for class of over 300 students

**Eta Kappa Nu** January 2017 - May 2017  
*Tutor* Berkeley, CA

- Assist students 1-on-1 in understanding content and homework from technical courses

## EXTRACURRICULARS

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**Juggling** - favorite patterns: Jim's 3 count, Madness Mildness, Factory

**Volleyball** - position: outside hitter

**Challah for Hunger** - served as executive board member of community service organization