Angelina Wang

angelina-wang.github.io
✉ angelina.wang@princeton.edu

Education

2019-	**Ph.D. Computer Science**, Princeton University Advisor: Olga Russakovsky Research Interests: machine learning fairness, algorithmic bias
2015-2019	**B.S. Electrical Engineering and Computer Science**, *Philosophy minor*, UC Berkeley Advisors: Pieter Abbeel, Aviv Tamar Major GPA: 3.96/4.00
Summer 2016	**Pembroke-King's Programme Study Abroad**, *Philosophy*, University of Cambridge

Awards

National Science Foundation Graduate Research Fellowship Program (NSF GRFP)

National Defense Science and Engineering Graduate Fellowship Program (NDSEG) (declined)

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 Phi Beta Kappa (Academic Honor Society)

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

Member of Tau Beta Pi (Engineering Honors Society)

Berkeley EECS Honors Program, concentration in Philosophy

Publications

Directional Bias Amplification
A. Wang, O. Russakovsky. *ICML 2021*

The Limits of Global Inclusion in AI Development
A. Chan*, C. T. Okolo*, Z. Terner*, A. Wang*. *AAAI 2021 Workshop on Reframing Diversity in AI - Spotlight*

Manipulative Tactics are the Norm in Political Emails: Evidence from 100K emails from the 2020 U.S. Election Cycle
A. Mathur, A. Wang, C. Schwemmer, M. Hamin, B. M. Stewart, A. Narayanan. *Draft*

REVISE: A Tool for Measuring and Mitigating Bias in Visual Datasets
A. Wang, A. Narayanan, O. Russakovsky. *ECCV 2020 - Spotlight*

Learning Robotic Manipulation through Visual Planning and Acting
A. Wang, T. Kurutach, K. Liu, P. Abbeel, A. Tamar. *RSS 2019*

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

Work Experience

Summer 2019	**Google**, *Software Engineering Intern*, Mountain View, CA ○ Worked on Google Shopping infrastructure team to build out new features for metric reporting ○ Contributed side project of supplementing filtering by different metrics for fairness evaluation
Jan 2017 - Oct 2018	**Archer (Technology Nonprofit, archerimpact.com)**, *Engineering Lead*, Berkeley, CA ○ Use Node and React to build web app for conducting open source investigations based off user interviews ○ Visualize public data and create adjacency matrix scheme to manipulate entity connections using D3 ○ Present products in D.C. and RightsCon 2018 in Toronto, receiving medal from U.S. Treasury

Summer 2017 **Google**, *Engineering Practicum Intern*, Seattle, WA
- Worked on infrastructure team to improve internal streaming data processing system
- Implemented hot key detection and mitigation to parallelize bottlenecks in the pipeline

Teaching

Spring 2021 **Fairness in Machine Learning (COS 534)**, *Teaching Assistant*, Princeton, NJ

Fall 2020 **Fairness in Visual Recognition (COS IW 08)**, *Teaching Assistant*, Princeton, NJ

Fall 2020 **Computer Vision (COS 429)**, *Teaching Assistant*, Princeton, NJ

July 2020 **AI4ALL**, *Instructor*, Princeton, NJ

July 2018 - **Machine Learning @ Berkeley**, *Education Officer*, Berkeley, CA
May 2019

July 2018 - **Robot Learning Lab Outreach**, *Lead*, Berkeley, CA
May 2019

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

Extracurriculars and Outreach

Out in Tech Mentor - mentor for LGBTQ+ youth

JuST (Technology for a Just Society) - moderate anti-racist reading group discussions

Bias in AI Reading Group Organizer - organize biweekly reading group centered on topics of bias and fairness in machine learning at Princeton University

RISE (Research Inclusion Social Event) - co-organize monthly social event with discussions centered around diversity and inclusion issues in computer science

Society of Women Engineers - mentor for undergraduates

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