

Angelina Wang

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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

Understanding and Evaluating Racial Biases in Image Captioning

D. Zhao, A. Wang, O. Russakovsky. *ICCV 2021*

Directional Bias Amplification

A. Wang, O. Russakovsky. *ICML 2021*

The Limits of Global Inclusion in AI Development

A. Chan*, C. T. Okolo*, Z. Turner*, 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 2021 **Microsoft**, *Research Intern*, Remote
○ Mentors: Solon Barocas, Hanna Wallach, Lijuan Wang, Zhe Gan

- 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 - **Archer (Technology Nonprofit, archerimpact.com)**, *Engineering Lead*, Berkeley, CA
- Oct 2018
- 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