

# Dora Zhao

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## Education

- 2023- PHD in Computer Science, Stanford University, GPA: 4.0/4.0  
Advisors: Michael Bernstein and Diyi Yang
- 2021-2022 MSE in Computer Science, Princeton University, GPA: 4.0/4.0  
Advisors: Olga Russakovsky and Andrés Monroy-Hernández
- 2017-2021 AB in Computer Science (*summa cum laude*), Princeton University, GPA: 3.97/4.0  
Advisor: Olga Russakovsky

## Publications

*\* denotes equal contribution*

### CONFERENCE PAPERS

**Zhao, D.**, Andrews, J., Papakyriakopoulos, O., Xiang, A. “Measuring Diversity in Datasets.” *International Conference on Machine Learning (ICML) Position Paper Track (Oral)*, 2024.

Andrews, J., **Zhao, D.\***, Thong, W.\*, Modas, A.\*, Papakyriakopoulos, O.\*, Nagpal, S.\*, Xiang, A. “Ethical Considerations for Responsible Data Curation.” *Neural Information Processing Systems Datasets and Benchmarks (NeurIPS D&B)* (Oral), 2023.

Ramaswamy, V.V., Lin, P., **Zhao, D.**, Adcock, A., van der Maaten, V., Ghadiyaram, D., Russakovsky, O. “GeoDE: a Geographically Diverse Evaluation Dataset for Object Recognition.” *Neural Information Processing Systems Datasets and Benchmarks (NeurIPS D&B)*, 2023.

**Zhao, D.\***, Meister, N.\*, Wang, A., Ramaswamy, V.V., Fong, R., and Russakovsky, O. “Gender Artifacts in Visual Datasets.” *International Conference on Computer Vision (ICCV)*, 2023.

**Zhao, D.**, Andrews, J., Xiang, A. “Men Also Do Laundry: Multi-Attribute Bias Amplification.” *International Conference on Machine Learning (ICML)*, 2023.

Papakyriakopoulos, O., Choi, A., Thong, W., **Zhao, D.**, Andrews, J., Bourke, R., Xiang, A., Koencke, A. “Augmented Datasheets for Speech Datasets and Ethical Decision-Making.” *ACM Conference on Fairness, Accountability, and Transparency (FAccT)*, 2023.

**Zhao, D.**, Inaba M., and Monroy-Hernández, A. “Understanding Teenage Perceptions and Configurations of Privacy on Instagram.” *Conference on Computer-Supported Cooperative Work & Social Computing (CSCW)*, 2022.

**Zhao, D.**, Wang, A., and Russakovsky, O. “Understanding and Evaluating Racial Biases in Image Captioning.” *International Conference on Computer Vision (ICCV)*, 2021.

## JOURNAL ARTICLES

Wang, A., Liu, A., Zhang, R., Kleiman, A., Kim, L., **Zhao, D.**, Shirai, I., Narayanan, A., and Russakovsky, O. “REVISE: A Tool for Measuring and Mitigating Bias in Visual Datasets.” *International Journal of Computer Vision (IJCV)*, 2022.

## WORKSHOP PAPERS

One of nineteen authors\*. “Anti-Racist HCI: Notes on an Emerging Critical Technical Practice” *alt.chi*, 2022.

## PRE-PRINTS

**Zhao, D.\***, Scheuerman, M., Chitre, P., Andrews, J., Panagiotidou, G., Walker, S., Pine, K., Xiang, A. “A Taxonomy of Challenges to Curating Fair Datasets.” *arXiv*, 2024.

## Presentations and Talks

### Measure Dataset Diversity, Don’t Just Claim It

- Invited talk at Sony AI
- Oral talk at *ICML 2024*

### Multimodal Systems through a Social Lens: Uncovering and Mitigating Biases

- Invited talk at the *CIKM 2023 Multimodal Human Understanding for the Web and Social Media Workshop*

### Understanding Teenage Perceptions and Configurations of Privacy on Instagram

- Part of a panel at *CSCW 2022 Northeast Meetup*

### Understanding and Evaluating Racial Biases in Image Captioning

- Part of an invited talk at *CVPR 2022 AI for Content Creation (AI4CC) Workshop*
- Part of an invited talk at *CVPR 2021 Visual Question Answering (VQA) Workshop*

## Work Experience

July 2022 -  
Aug 2023

### AI Engineer, Sony Research (AI Ethics Team), New York, NY

- Assisted with large-scale data collection for an ethical human-centric dataset by creating toolkits for data quality review
- Developed educational materials on fairness, bias, and privacy concerns in AI made publicly available for users of Sony Semiconductor Solutions Corporation’s edge AI sensing platform, AITRIOS
- Created AI Ethics Checklists and designed a research ethics review process that has been adopted by all flagship projects in Sony AI

May 2021 -  
Aug 2021

### Research Intern, Sony Research (AI Ethics Team), Remote

- Proposed methods for using generative adversarial networks to reduce spurious correlations in image datasets
- Mentors: Alice Xiang, Jerone Andrews

Sept 2017 -  
Dec 2018

### Undergraduate Research Assistant, Stigma and Social Perception Laboratory, Princeton, NJ

- Assisted Professors Nicole Shelton and Stacey Sinclair on audit study exploring the representations of diversity in college admissions materials and mission statements

## Teaching

Spring 2022	<b>Advanced Programming Techniques (COS 333)</b> , <i>Teaching Assistant</i> , Princeton University
Fall 2021	<b>Advanced Programming Techniques (COS 333)</b> , <i>Teaching Assistant</i> , Princeton University
Spring 2021	<b>Computer Vision for Social Good (COS IW 07)</b> , <i>Teaching Assistant</i> , Princeton University
Spring 2021	<b>Fairness in Visual Recognition (COS IW 08)</b> , <i>Teaching Assistant</i> , Princeton University

## Honors and Awards

2024	<b>Brown Institute for Media Innovation Magic Grant</b>
2021	<b>Joseph Clifton Elgin Prize</b> , <i>Award for the senior in School of Engineering and Applied Sciences who has done the most to advance the interests of the School in the community at large</i> , Princeton University
2021	<b>Sigma Xi Book Award for Outstanding Undergraduate Research</b> , Princeton University
2020	<b>Computing Research Association's Outstanding Undergraduate Researcher – Honorable Mention</b>
2020	<b>Accenture Prize in Computer Science</b> , <i>Merit-based award for top 2 seniors in the Princeton Computer Science department</i>

## Professional Service

### Reviewing

CSCW 2024, FAccT 2024, Web 2024, CVPR 2023

## Outreach

2023-Present	<b>Stanford Computing and Society Group</b> , <i>Organizer</i> - Host biweekly speaker seminars on topics related to computing and society
2023-Present	<b>Stanford CS Undergraduate Mentoring Program</b> , <i>Volunteer</i> - Mentor Stanford CS undergraduate students from underrepresented backgrounds
2023-Present	<b>Stanford CS Student-Applicant Support Program</b> , <i>Volunteer</i> - Provide feedback to first-generation, low-income students on their application materials before they formally apply to the Stanford CS PhD program
2022-2023	<b>Clinic to End Tech Abuse</b> , <i>Volunteer</i> - Support survivors of intimate partner violence by helping determine if someone is using technology to harm them and provide assistance with navigating privacy settings
2017-2021	<b>Asian American Student Association (AASA)</b> , <i>Co-President</i> - Led Princeton's largest undergraduate organization and organized both cultural and political events
2018-2019	<b>Carl A. Fields Center</b> , <i>Fellow</i> - Facilitated dialogue about race and identity for students

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