

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

- [C10] **Zhao, D.***, Scheuerman, M.*, Chitre, P., Andrews, J., Panagiotidou, G., Walker, S., Pine, K., Xiang, A. “A Taxonomy of Challenges to Curating Fair Datasets.” *NeurIPS Datasets and Benchmarks (NeurIPS D&B) (Oral)*, 2024.
- [C9] Hirota, Y., Andrews, J., **Zhao, D.**, Papakyriakopoulos, O., Modas, A., Nakashima, Y., Xiang, A. “Resampled Datasets Are Not Enough: Mitigating Societal Bias Beyond Single Attributes.” *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2024.
- [C8] **Zhao, D.**, Andrews, J., Papakyriakopoulos, O., Xiang, A. “Position: Measure Dataset Diversity, Don’t Just Claim It.” *International Conference on Machine Learning (ICML)*, 2024.
Best Paper Award
- [C7] 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.
- [C6] 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.
- [C5] **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.
- [C4] **Zhao, D.**, Andrews, J., Xiang, A. “Men Also Do Laundry: Multi-Attribute Bias Amplification.” *International Conference on Machine Learning (ICML)*, 2023.
- [C3] Papakyriakopoulos, O., Choi, A., Thong, W., **Zhao, D.**, Andrews, J., Bourke, R., Xiang, A., Koenecke, A. “Augmented Datasheets for Speech Datasets and Ethical Decision-Making.” *ACM Conference on Fairness, Accountability, and Transparency (FAccT)*, 2023.

- [C2] **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.
- [Ci] **Zhao, D.**, Wang, A., and Russakovsky, O. “Understanding and Evaluating Racial Biases in Image Captioning.” *International Conference on Computer Vision (ICCV)*, 2021.

JOURNAL ARTICLES

- [J1] 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

- [W1] One of nineteen authors*. “Anti-Racist HCI: Notes on an Emerging Critical Technical Practice” *alt.chi*, 2022.

Presentations and Talks

Measure Dataset Diversity, Don’t Just Claim It

- Invited talk at Sony AI
- Oral talk at *ICML 2024* — Data & Society Session

Multimodal Systems through a Social Lens: Uncovering and Mitigating Biases

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

Honors and Awards

2024	Best Paper at ICML 2024 <i>For “Position: Measure Dataset Diversity, Don’t Just Claim It”</i>
2024	Brown Institute for Media Innovation Magic Grant <i>Awarded \$60k for research on the spiral of silence on social media</i>
2021	Joseph Clifton Elgin Prize <i>Award for the senior in Princeton University’s School of Engineering and Applied Sciences who has done the most to advance the interests of the School in the community at large</i>
2021	Sigma Xi Book Award for Outstanding Undergraduate Research
2020	Computing Research Association’s Outstanding Undergraduate Researcher – Honorable Mention
2020	Accenture Prize in Computer Science <i>Merit-based award for top 2 seniors in the Princeton Computer Science department</i>

Professional Service

Program Committee: FAccT 2024

Reviewing: CSCW 2024, CVPR 2023, WRD24 @ CVPR 2024, CEGIS @ ECCV 2024, Web 2024

Outreach

2024-Present	Stanford Human-Computer Interaction Seminar , <i>Organizer</i> - Help organize weekly seminar series on topics related to HCI
2023-2024	Stanford Computing and Society Group , <i>Organizer</i> - Host biweekly speaker seminars on topics related to computing and society
2023-Present	Stanford CS Undergraduate Mentoring Program , <i>Volunteer</i> - Mentor Stanford CS undergraduate students from underrepresented backgrounds
2023-Present	Stanford CS Student-Applicant Support Program , <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	Clinic to End Tech Abuse , <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	Asian American Student Association (AASA) , <i>Co-President</i> - Led Princeton’s largest undergraduate organization and organized both cultural and political events
2018-2019	Carl A. Fields Center , <i>Fellow</i> - Facilitated dialogue about race and identity for students

Mentoring

2024-Present	Renn Su, <i>Stanford CS Undergrad</i> , project on ranking social media feed based on values
2024-Present	Akaash Kolluri, <i>Stanford CS Undergrad</i> , project on ranking social media feed based on values
2024-Present	Yutong Zhang, <i>Stanford CS MS</i> , project on social implications of character-based chatbots

Last updated: September 27, 2024