Dora Zhao

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Education

2023-   PHD in Computer Science, Stanford University

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

Meister, N.*, **Zhao, D.***, Wang. A, Ramaswamy, V.V., Fong, R., and Russakovsky, O. "Gender Artifacts in Visual Datasets." In *International Conference on Computer Vision*, 2023.

Zhao, D., Andrews, J., Xiang, A. "Men Also Do Laundry: Multi-Attribute Bias Amplification." In *International Conference on Machine Learning*, 2023.

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." In *ACM Conference on Fairness, Accountability, and Transparency*, 2023.

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

Zhao, D., Wang. A, and Russakovsky, O. "Understanding and Evaluating Racial Biases in Image Captioning." In *International Conference on Computer Vision*, 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." In *International Journal of Computer Vision*, 2022.

Workshop papers

Andrews, J., **Zhao, D.***, Thong, W.*, Modas, A.*, Papakyriakopoulos, O.*, Nagpal, S.*, Xiang, A. "Principlism Guided Responsible Data Curation." In *ICML Data-centric Machine Learning Research (DMLR) Workshop*, 2023.

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

Preprints

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." https://arxiv.org/abs/2301.02560.

Presentations and Talks

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 - Present

AI Engineer, *Sony Research (AI Ethics Team)*, New York, NY
- Propose new metrics for measuring bias amplification in computer vision models
- Assist with large-scale data collection for an ethical human-centric dataset by building the dataset release platform using React, Express, and Firebase

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)**, *Teaching Assistant*, Princeton University
Fall 2021 · **Advanced Programming Techniques (COS 333)**, *Teaching Assistant*, Princeton University
Spring 2021 · **Computer Vision for Social Good (COS IW 07)**, *Teaching Assistant*, Princeton University
Spring 2021 · **Fairness in Visual Recognition (COS IW 08)**, *Teaching Assistant*, Princeton University

Honors and Awards

2021 · **Joseph Clifton Elgin Prize**, 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, *Princeton University*

2021 · **Sigma Xi Book Award for Outstanding Undergraduate Research**, Princeton University

2020 · **Outstanding Undergraduate Researcher – Honorable Mention**, Computing Research Association

2020 · **Accenture Prize in Computer Science**, *Merit-based award for top 2 seniors in the Princeton Computer Science department*, Princeton University

2020 · **Phi Beta Kappa Fall Election**, *Top 2% of graduating class*, Princeton University

2018 · **Shapiro Prize for Academic Excellence**, *Top 2% after freshman year*, Princeton University

Professional Service

Reviewing
CVPR 2023

Outreach

2022-Present   **Clinic to End Tech Abuse**, *Volunteer -* 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)**, *Co-President -* Led Princeton's largest undergraduate organization and organized both cultural and political events

2018-2019   **Carl A. Fields Center**, *Fellow -* Facilitated dialogue about race and identity for students

Last updated: July 19, 2023