Irena Gao

i-gao.github.io \cdot irena@cs.stanford.edu

Education

Ph.D. in Computer Science , <i>Stanford University</i> . Rotation advisors: Carlos Guestrin	2023–present
M.S. in Statistics, Stanford University. GPA: 4.03	2021 - 2023
B.S. in Computer Science with Honors and Distinction , <i>Stanford University.</i> GPA: 4.06 Thesis advisor: Percy Liang	2018-2023
Work Experience	

Research Intern, **Microsoft Research** Supervisor: Marco Tulio Ribeiro

Publications

* denotes equal contribution.

 Anas Awadalla*, Irena Gao*, Joshua Gardner, Jack Hessel, Yusuf Hanafy, Wanrong Zhu, Kalyani Marathe, Yonatan Bitton, Samir Gadre, Shiori Sagawa, Jenia Jitsev, Simon Kornblith, Pang Wei Koh, Gabriel Ilharco, Mitchell Wortsman, and Ludwig Schmidt. Openflamingo: An open-source framework for training large autoregressive vision-language models, 2023.

2022

- [2] Irena Gao, Gabriel Ilharco, Scott Lundberg, and Marco Tulio Ribeiro. Adaptive testing of computer vision models. In *International Conference on Computer Vision*, 2023. Oral presentation (top 5.9% of accepted papers).
- [3] Irena Gao*, Shiori Sagawa*, Pang Wei Koh, Tatsunori Hashimoto, and Percy Liang. Out-of-domain robustness via targeted augmentations. In *International Conference on Machine Learning*, 2023
- [4] Nicholas Carlini, Milad Nasr, Christopher A Choquette-Choo, Matthew Jagielski, Irena Gao, Anas Awadalla, Pang Wei Koh, Daphne Ippolito, Katherine Lee, Florian Tramer, and Ludwig Schmidt. Are aligned neural networks adversarially aligned? In Neural Information Processing Systems, 2023.
- [5] Zixian Ma*, Jerry Hong*, Mustafa Omer Gul*, Mona Gandhi, Irena Gao, and Ranjay Krishna. Crepe: Can vision-language foundation models reason compositionally? In *Conference on Computer Vision and Pattern Recognition*, 2023. Highlight (top 10% of accepted papers).
- [6] Shiori Sagawa*, Pang Wei Koh*, Tony Lee*, Irena Gao*, Sang Michael Xie, Kendrick Shen, Ananya Kumar, Weihua Hu, Michihiro Yasunaga, Henrik Marklund, Sara Beery, Etienne David, Ian Stavness, Wei Guo, Jure Leskovec, Kate Saenko, Tatsunori Hashimoto, Sergey Levine, Chelsea Finn, and Percy Liang. Extending the wilds benchmark for unsupervised adaptation. In International Conference on Learning Representations, 2022. Oral presentation.
- [7] Pang Wei Koh*, Shiori Sagawa*, Sang Michael Xie, Marvin Zhang, Akshay Balsubramani, Weihua Hu, Michihiro Yasunaga, Richard Lanas Phillips, Irena Gao, Tony Lee, Etienne David, Ian Stavness, Wei Guo, Berton Earnshaw, Imran Haque, Sara Beery, Jure Leskovec, Anshul Kundaje, Emma Pierson, Sergey Levine, Chelsea Finn, and Percy Liang. Wilds: A benchmark of in-the-wild distribution shifts. In *International Conference on Machine Learning*, pp. 5637–5664. PMLR, 2021. Oral presentation.
- [8] Mark E Whiting, Irena Gao*, Michelle Xing*, N'godjigui Junior Diarrassouba*, Tonya Nguyen*, and Michael S Bernstein. Parallel worlds: Repeated initializations of the same team to improve team viability. proceedings of the ACM on Human-Computer Interaction, 4(CSCW1):1–22, 2020.

Service

Conferences and workshops	
Reviewer, NeurIPS Workshop on Distribution Shifts	2023
Reviewer, NeurIPS	2023
Reviewer, CVPR	2023
Reviewer, ICML Principles of Distribution Shifts Workshop	2022
Reviewer, NeurIPS Workshop on Distribution Shifts	2022
Reviewer, NeurIPS Workshop on Distribution Shifts	2021
Community	

Mentor, Stanford CS Mentoring Program	2023
Mentor, Women's Community Center STEM Mentorship Program	2023

Teaching

Course Assistant, CS221: Artificial Intelligence: Principles and Techniques	2023
Course Assistant, CS224N: Natural Language Processing with Deep Learning	2023
Course Assistant, CS221: Artificial Intelligence: Principles and Techniques	2022
Section Leader, CS106A/B: Programming Methods & Abstractions	2019 - 2020