Sarah A. Wu

sarahawu@stanford.edu · https://sarahawu.github.io/

Education

Stanford University 2020 –
Ph.D. in Psychology
Advisor: Tobias Gerstenberg

Diverse Intelligences Summer Institute 2021

Massachusetts Institute of Technology 2016 – 2020
B.S. in Mathematics with Computer Science; Brain & Cognitive Sciences

Honors & Awards

Stanford Institute for Research in the Social Sciences Grant 2022, 2021
Best Paper Award, NeurIPS Cooperative AI Workshop 2020
Computational Modeling Prize in Higher Cognition, Cognitive Science Society 2020
NSF Graduate Research Fellowship 2020
Phi Beta Kappa 2020
MIT Hans Lukas Teuber Award for Outstanding Academics 2020, 2019
Amgen National Scholar 2018

Publications

Sarah A. Wu and Tobias Gerstenberg (in prep). If not me, then who? Responsibility and replacement.

Journal Articles

Sarah A. Wu*, Rose E. Wang*, James A. Evans, Joshua B. Tenenbaum, David C. Parkes, and Max Kleiman-Weiner (2021). Too many cooks: Bayesian inference for coordinating multi-agent collaboration. *Topics in Cognitive Science*, 13(2).

Sarah A. Wu and Edward Gibson (2021). Word order predicts cross-linguistic differences in the production of redundant color and number modifiers. *Cognitive Science*, 45(1).

Book Chapters

Rose E. Wang*, **Sarah A. Wu***, James A. Evans, Joshua B. Tenenbaum, David C. Parkes, and Max Kleiman-Weiner (2021). Too many cooks: Bayesian inference for coordinating multi-agent collaboration. In S. Muggleton and N. Charter (Ed.), *Human-like Machine Intelligence*. Oxford University Press.

Peer-reviewed Conference Proceedings

Sarah A. Wu, Shruti Sridhar, and Tobias Gerstenberg (2022). That was close! A counterfactual simulation model of causal judgments about decisions. *Proceedings of the 44th Annual Conference of the Cognitive Science Society.*

Sarah A. Wu*, Rose E. Wang*, James A. Evans, Joshua B. Tenenbaum, David C. Parkes, and Max Kleiman-Weiner (2020). Too many cooks: Coordinating multi-agent collaboration through inverse planning. *Proceedings of the 42nd Annual Conference of the Cognitive Science Society.*

Conference Presentations

"That was close! A counterfactual simulation model of causal judgments about social agents"
Talk at the 48th Annual Meeting of the Society for Psychology and Philosophy ((E)SPP), 2022
Poster at the 44th Annual Meeting of the Cognitive Science Society (CogSci), 2022
Poster at the Robotics: Science and Systems (RSS) Social Intelligence in Humans and Robots Workshop, 2022

"The role of counterfactual reasoning in responsibility judgments"
Talk at the 47th Annual Meeting of the Society for Psychology and Philosophy (SPP), 2021

Poster at the 43rd Annual Meeting of the Cognitive Science Society (CogSci), 2021

"Too many cooks: Bayesian inference for coordinating multi-agent collaboration"
Spotlight talk & poster at the NeurIPS Cooperative AI Workshop, 2020

"Word order predicts cross-linguistic differences in the production of redundant color and number modifiers"
Talk at the 26th Architectures and Mechanisms for Language Processing (AMLaP), 2020

"Too many cooks: Coordinating multi-agent collaboration through inverse planning"
Talk at the 42nd Annual Meeting of the Cognitive Science Society (CogSci), 2020
Talk at the International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), 2020

"Role of Anterior Cingulate Cortex in Evaluating Expected Uncertainty in Complex Learning Environments"
Poster at the Amgen National Scholars Symposium, 2018

Invited Presentations

Computational Vision and Learning Lab, UCLA	Oct. 2022
Experimental Jurisprudence Workshop, Michigan Law School	Oct. 2022
Visual Intelligence Lab, UCLA	Jul. 2022
Social and Cognitive Computational Neuroscience Lab, Boston College	Sep. 2020

Teaching

Teaching Assistant

Stanford PSYCH 252 Statistical Methods for Social & Behavioral Sciences	Winter 2022
Stanford PSYCH 251 Experimental Methods	Fall 2022, Fall 2021
Stanford SYMSYS 1 Minds and Machines	Summer 2021
MIT 6.046 Design and Analysis of Algorithms	Spring 2020, Fall 2019, Spring 2019
MIT 6.036 Introduction to Machine Learning	Fall 2018
MIT 12.000 Solving Complex Problems (Terrascope)	Fall 2017

Instructor

IIS Curie-Sraffa High School, Milan, Italy (through MIT Global Teaching Labs)	2019

Mentoring

Shruti Sridhar (undergraduate, 2021 –), Gabe Gaw (undergraduate, 2022 –), Siying Zhang (research assistant, 2022 –)

Professional Service & Activities

Reviewing

NeurIPS 2022 Neuro Causal and Symbolic AI Workshop, CogSci 2022, CogSci 2021

Department & University Service

Stanford Psychology FriSem Seminar Organizer	2022 –
Stanford Psychology Faculty Meeting Representative	2020 – 2022
MIT Educational Counselor	2020 –

DEI & Outreach

Stanford Psychology Diversity Committee	2022 –
Stanford Future Advancers of Science & Technology (`https://fast.stanford.edu/`)	
Chief Program Officer	2022 –
Director of Mentor Recruitment	2021 – 2022
Mentor	2020 –