

# Sarah A. Wu she/her

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## Education

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Stanford University Ph.D. in Psychology Advisor: Tobias Gerstenberg	2020 – 2026
Diverse Intelligences Summer Institute	2021
Massachusetts Institute of Technology B.S. in Mathematics with Computer Science; Brain & Cognitive Sciences	2016 – 2020

## Experience

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Research Scientist Intern, Human-Centered AI Research, Apple	Summer 2024
PhD Research Intern, Mosaic, Allen Institute for Artificial Intelligence Mentors: Sydney Levine, Xiang Ren	Summer 2023

## Honors & Awards

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Hsieh Family Fellow, Stanford Interdisciplinary Graduate Fellowship (SIGF)	2023 – 2026
Norman H. Anderson Research Fund, Stanford Psychology	2023
Stanford Institute for Research in the Social Sciences Grant	2022
Stanford Institute for Research in the Social Sciences Grant	2021
Best Paper Award, NeurIPS Cooperative AI Workshop	2020
Computational Modeling Prize in Higher Cognition, Cognitive Science Society	2020
NSF Graduate Research Fellowship (GRFP)	2020 – 2023
Phi Beta Kappa	2020

## Publications

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### *Journal Articles*

**Sarah A. Wu** and Tobias Gerstenberg (2023). If not me, then who? Responsibility and replacement. *Cognition*, 242, 105646.

**Sarah A. Wu**<sup>\*</sup>, Rose E. Wang<sup>\*</sup>, 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), 414-432.

**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), e12934.

### *Book Chapters*

Rose E. Wang<sup>\*</sup>, **Sarah A. Wu**<sup>\*</sup>, 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*, pp. 152-170. Oxford University Press.

### *Peer-reviewed Conference Proceedings*

Emily Jin, Zhuoyi Huang, Jan-Philipp Fränken, Weiyu Liu, Hannah Cha, Erik Brockbank, **Sarah A. Wu**, Ruohan Zhang, Jiajun Wu, and Tobias Gerstenberg (2024). MARPLE: A Benchmark for Long-Horizon Inference. *Advances in Neural Information Processing Systems*.

**Sarah A. Wu**, Xiang Ren, Tobias Gerstenberg, Yejin Choi, and Sydney Levine (2024). Resource-rational moral judgment. *Proceedings of the 46th Annual Conference of the Cognitive Science Society*.

**Sarah A. Wu\***, Erik Brockbank\*, Hannah Cha, Jan-Philipp Fränken, Emily Jin, Zhuoyi Huang, Weiyu Liu, Ruohan Zhang, Jiajun Wu, and Tobias Gerstenberg (2024). Whodunnit? Inferring what happened from multimodal evidence. *Proceedings of the 46th Annual Conference of the Cognitive Science Society*.

**Sarah A. Wu**, Shruti Sridhar, and Tobias Gerstenberg (2023). A computational model of responsibility from counterfactual simulations and intention inferences. *Proceedings of the 45th Annual Conference of the Cognitive Science Society*.

**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*.

### Invited Presentations

Workshop on Genericity, Stability, and Structural Interactions, Cal State East Bay “Counterfactuals and responsibility”	2024
Experimental Jurisprudence Workshop, University of Michigan Law School “Responsibility, replaceability, and reasonableness”	2022

### Conference Presentations

Poster at CogSci 2024: “Whodunnit? Inferring what happened from multimodal evidence”
Poster at CogSci 2024: “Resource-rational moral judgment”
Talk at SPP 2024: “Resource-rational moral judgment”
Poster at CogSci 2023: “A computational model of responsibility from counterfactual simulations and intention inferences”
Poster at CogSci 2022: “That was close! A counterfactual simulation model of causal judgments about social agents”
Talk at (E)SPP 2022: “That was close! A counterfactual simulation model of causal judgments about social agents”
Poster at CogSci 2021: “The role of counterfactual reasoning in responsibility judgments”
Talk at SPP 2021: “The role of counterfactual reasoning in responsibility judgments”
Spotlight talk at NeurIPS 2020 Cooperative AI Workshop: “Too many cooks: Bayesian inference for coordinating multi-agent collaboration”
Talk at AMLaP 2020: “Word order predicts cross-linguistic differences in the production of redundant color and number modifiers”
Talk at CogSci 2020: “Too many cooks: Coordinating multi-agent collaboration through inverse planning”
Talk at AAMAS 2020: “Too many cooks: Coordinating multi-agent collaboration through inverse planning”

### Teaching

TA for Stanford PSYCH 205 Foundations of Cognition	Spring 2023
TA for Stanford PSYCH 251 Experimental Methods	Fall 2021, Fall 2022, Fall 2023
TA for Stanford PSYCH 252 Statistical Methods for Social & Behavioral Sciences	Winter 2022
TA for Stanford SYMSYS 1 Minds and Machines	Summer 2021
TA for MIT 6.046 Design and Analysis of Algorithms	Spring 2019, Fall 2019, Spring 2020
TA for MIT 6.036 Introduction to Machine Learning	Fall 2018
Instructor at IIS Curie-Sraffa High School, Milan, Italy	Winter 2019

## Mentoring

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Chuqi Hu (Master's student, 2024 – )  
Verona Teo (predoctoral researcher, 2024 – )  
Siyang Zhang (research assistant, 2022 – 2023)  
Gabe Gaw (undergraduate, 2022 – 2023)  
Shruti Sridhar (undergraduate, 2021 – 2024)

## Professional Service

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Reviewer for Cognitive Science Society Conference (CogSci)	2021 – 2025
Reviewer for Journal of Experimental Psychology: Learning, Memory, and Cognition	2024
Reviewer for Association for the Advancement of Artificial Intelligence (AAAI) Workshops	2024
Reviewer for International Conference on Machine Learning (ICML) Workshops	2023 – 2024
Organizer of ICML “Counterfactuals in Minds and Machines” Workshop	2023
Reviewer for Neural Information Processing Systems (NeurIPS) Workshops	2022 – 2023

## University Service & Outreach

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Stanford Psychology Admissions Reader	2024 –
Stanford Psychology Advising Coach	2023 –
Stanford Psychology Faculty Meeting Representative	2020 – 2022
MIT Educational Counselor	2020 – 2025
Stanford Future Advancers of Science & Technology ( <a href="https://fast.stanford.edu/">https://fast.stanford.edu/</a> )	2020 –
President	2023 – 2024
Chief Program Officer	2022 – 2023
Director of Mentor Recruitment	2021 – 2022