

# 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	2021, 2022
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	2019, 2020
Amgen National Scholar	2018

## Publications

---

**Sarah A. Wu** and Tobias Gerstenberg (in prep). The role of counterfactual reasoning in responsibility judgments.

### *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*.

## 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

---

- |   |      |
|---|------|
| Visual Intelligence Lab, UCLA                                       | 2022 |
| Social and Cognitive Computational Neuroscience Lab, Boston College | 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 |
|---|------|

## Professional Service & Activities

---

### *Reviewing*

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

### *Department & University Service*

- |  |             |
|--|-------------|
| Stanford Psychology Diversity Committee            | 2022 –      |
| Stanford Psychology FriSem Seminar Organizer       | 2022 –      |
| Stanford Psychology Faculty Meeting Representative | 2020 – 2022 |
| MIT Educational Counselor                          | 2020 –      |

### *Outreach*

- |   |             |
|---|-------------|
| Stanford Future Advancers of Science & Technology ( <a href="https://fast.stanford.edu/">https://fast.stanford.edu/</a> ) |             |
| Chief Program Officer   | 2022 –      |
| Director of Mentor Recruitment  | 2021 – 2022 |
| Mentor  | 2020 –      |