Sarah A. Wu

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Education	**Stanford University**	2020 – Present
	Ph.D. in Psychology	
	Advisor: Tobias Gerstenberg	
	Massachusetts Institute of Technology	2016 – 2020
	B.S. in Mathematics with Computer Science; Brain & Cognitive Sciences	

Experience

Undergraduate Researcher   2019 – 2020
Computational Cognitive Science Group, Brain & Cognitive Sciences, MIT
– Bayesian theory-of-mind and multi-agent reinforcement learning for social cooperation

Undergraduate Researcher   2018
Izquierdo Lab, Psychology, UCLA
– Paradigms for computing uncertainty and volatility in probabilistic learning in rodents

Undergraduate Researcher   2017
Sinha Lab for Vision Research, Brain & Cognitive Sciences, MIT
– Feature saliency and strategies in directed visual search

Honors and Awards

NeurIPS CoopAI Workshop Best Paper Award	2020
CogSci Computational Modeling Prize in Higher Cognition	2020
NSF Graduate Research Fellowship	2020
Phi Beta Kappa	2020
Hans Lukas Teuber Award for Outstanding Academics, MIT	2019, 2020
Amgen National Scholar	2018
Singapore-MIT Undergraduate Research Fellow	2017
U.S. National Physics Team	2016
Singapore International Mathematics Challenge Distinction Award	2016

Publications

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

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). https://doi.org/10.1111/cogs.12934.

Presentations

Sarah A. Wu[*], Rose E. Wang[*], James A. Evans, Joshua B. Tenenbaum, David C. Parkes, and Max Kleiman-Weiner. Too many cooks: Bayesian inference for coordinating multi-agent collaboration. Spotlight talk & poster at the *NeurIPS 2020 Cooperative AI Workshop.*

Sarah A. Wu and Edward Gibson. 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).*

Sarah A. Wu[*], Rose E. Wang[*], James A. Evans, Joshua B. Tenenbaum, David C. Parkes, and Max Kleiman-Weiner. Too many cooks: Coordinating multi-agent collaboration through inverse planning. Talk at the *42nd Annual Meeting of the Cognitive Sciences Society (CogSci).*

Sarah A. Wu, Ben Hayden, Alireza Soltani, and Alicia Izquierdo. Role of Anterior Cingulate Cortex in Evaluating Expected Uncertainty in Complex Learning Environments. Poster at the *2018 Amgen Scholars Symposium.*

Invited Talks	Social and Cognitive Computational Neuroscience Lab, Boston University	2020

Teaching

Instructor, MIT Global Teaching Labs   2019
IIS Curie-Sraffa (STEM high school), Milan, Italy

Teaching Assistant/Fellow, MIT
6.046 Design and Analysis of Algorithms   Spring 2019, Fall 2019, Spring 2020
6.036 Introduction to Machine Learning   Fall 2018
12.000 Solving Complex Problems (Terrascope)   Fall 2017

Lab Assistant, MIT
6.042 Introduction to Discrete Mathematics   Spring 2018

Service and Activites

Mentor   2020 – Present
Future Advancers of Science and Technology
`https://fast.stanford.edu/`

Graduate Representative Committee   2020 – Present
Psychology, Stanford University

Design Editor   2018 – 2020
MIT *Technique* vol. 135, 136
`https://technique.mit.edu/`

Executive Officer   2018 – 2020
MIT Brain & Cognitive Sciences Society