

Ham Huang

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Curriculum Vitæ¹

Education

- 2023-Now **Ph.D. Psychology**, Computational Cognitive Science of Collaboration.
Advisors: Prof. Natalia Vélez, Prof. Thomas Griffiths
Princeton University.
- 2016-2020 **B.A. Philosophy, Minor in Logic**, Both GPA: 3.95/4.
B.A. Applied Mathematics, *Cluster in Computational Statistics*, GPA: 4/4.
B.A. Psychology, *Highest Honors*, GPA: 4/4.
Thesis: *A role for working memory in shaping the action policy for reinforcement learning*
Thesis Advisor: Prof. Anne G.E. Collins, Dr. Samuel D. McDougle
University of California, Berkeley, *Highest Distinction*, Cumulative GPA: 3.95/4.
- Summer Schools
- 2022 **Sloan-Nomis Summer School on the Cognitive Foundations of Economic Behavior.**
- 2022 **The Computational Summer School on Modeling Social and Collective Behavior.**

Publications

- Ham, H.**, Zhao, B., Griffiths, T. L., & Vélez, N. (2025). Teaching and learning reusable abstractions. *Cognitive Science*.
- Ham, H.** & Jenkins, A. C. (2025). Social inequity disrupts reward-based learning. *Communications Psychology*.
- Ham, H.**, McDougle, S. D., & Collins, A. G. E. (2025). Dual effects of dual-tasking on instrumental learning. *Cognition*.
- Defendini, A., **Ham, H.**, & Jenkins, A. C. (Under Review). Contributions of the medial prefrontal cortex and right temporoparietal junction to inferences about others' stable and transient beliefs and preferences. *Journal of Cognitive Neuroscience*.
- Plate, R. C., **Ham, H.**, & Jenkins, A. C. (2023). When uncertainty in social contexts increases exploration and decreases obtained rewards. *Journal of Experimental Psychology: General*.
- Ham, H.** & Jenkins, A. C. (2023). A computational model of lexical false memory based on semantic distance from word embeddings. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 45.

¹Current as of February, 23, 2025. Publish as Huang Ham. * indicates equal contribution.

- Ham, H.**, Grahek, I., Bustamante, L., Daw, N., Caplin, A., & Musslick, S. (2022). Leveraging psychometrics of rational inattention to estimate individual differences in the capacity for cognitive control. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 44.
- Ham, H.***, Cedegao, Z.*, & Holliday, W. H. (2021). Does amy know ben knows you know your cards? a computational model of higher-order epistemic reasoning. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 43.

Presentations

Collaborative encoding of visual working memory.

- 13/08/2025 ○ Talk given at [Computational Cognitive Neuroscience Conference](#), Amsterdam, Netherlands
- 01/08/2025 ○ Poster presented at [Annual Conference of the Cognitive Science Society](#), San Francisco, CA

A computational model of lexical false memory based on semantic distance from word embeddings.

- 28/07/2023 Talk given at [Annual Conference of the Cognitive Science Society](#), Sydney, Australia

Effects of social context on reward-based learning.

- 01/10/2022 Poster presented at [The Society for Neuroeconomics Conference](#), Arlington, VA

Leveraging psychometrics of rational inattention to estimate individual differences in the capacity for cognitive control.

- 19/05/2022 ○ Talk given at [Control Processes Conference](#), Online
- 10/06/2022 ○ Poster presented at [The Multi-disciplinary Conference on Reinforcement Learning and Decision Making](#), Brown University

Social Context Shapes Value Representation during Learning.

- 06/08/2021 ○ Talk given at [International Interdisciplinary Computational Cognitive Science Summer School](#), Online
- 23/09/2021 ○ Talk given at [Computational Cognition Workshop](#), Online

Does Amy Know Ben Knows You Know Your Cards? A Computational Model of Higher-Order Epistemic Reasoning.

- 29/07/2021 Poster presented at [Annual Conference of the Cognitive Science Society](#), Online

Working Memory Shapes State-Space for Policy Formation in Reinforcement Learning.

- 30/07/2020 Poster presented at [Annual Conference of the Cognitive Science Society](#), Online

Professional Services

Review

- 2025 **Computational Cognitive Neuroscience Conference**, *Reviewed 3 papers.*
- 2025 **Cognitive Science Society Annual Meeting**, *Reviewed 4 papers.*
- 2024 **Cognitive Science Society Annual Meeting**, *Reviewed 1 paper.*
- 2023 **Cognitive Science Society Annual Meeting**, *Reviewed 1 paper.*
- 2022 **Cognitive Science Society Annual Meeting**, *Reviewed 2 papers.*

Volunteering

- 2023 **Cognitive Science Society Annual Meeting**, *Onsite Session Assistant.*
- 2022 **Cognitive Science Society Annual Meeting**, *Online Technical Chair.*

Awards and Fundings

2025 **Graduate School Teaching Award**, *Princeton University*.

2023 **Centennial Fellowship in the Natural Sciences and Engineering**, *Princeton University*.

Teaching/Mentoring Experience

Teaching Assistant

2024 Fall **The Cognitive Neuroscience of Selective Attention**, *Prof. Timothy Buschman*,
Eval: 4.69/5.

Students Mentorship

2025 **Yuanning (Helen) Hui**, *Rematch summer RA*, Princeton.

2024 - 2025 **Miles Sugarman**, *Psychology thesis student*, Princeton.

2023 **Ray Liu**, *Jenkins Lab Undergraduate*, UPenn.

2019-2020 **Kian Golestaneh, Megha Krishnan, Pearl Lee, Ailinh Nguyen, Robin Stewart, Jocelyn Xie**, *Undergraduate Lab for Cognitive Science and Psychology*, UC Berkeley.