

Mathew Hardy

matthardy.org ■ mdhardy@princeton.edu ■ +1-978-201-2602

Education	Princeton University	September 2018 - Summer 2023 (expected)
	PhD in Psychology Advisors: Thomas L. Griffiths and Jonathan D. Cohen	
	University of Toronto	August 2017
	Honours Bachelor of Science with High Distinction Majors in Economics and Statistics, minor in Mathematics	
Fellowships & awards	DoD NDSEG Fellowship	September 2020 - present
	Program on the Cognitive Foundations of Economic Behavior	July 2019
	Summer Institute on Bounded Rationality	June 2019
	Centennial Fellowship in the Natural Sciences	September 2018
Journal articles	Hardy, M.* , Thompson, W.*, Krafft, P. & Griffiths T.L. (under revision). Bias amplification in experimental social networks is reduced by resampling.	
	Callaway, F.*, Hardy, M.* & Griffiths T.L. (under revision). Optimal nudging for cognitively bounded agents: A framework for modeling, predicting, and controlling the effects of choice architectures.	
	Vélez, N., Christian, B., Hardy, M. , Bill D. Thompson, W., & Griffiths, T.L. (in press). How do humans overcome individual computational limitations by working together? <i>Cognitive Science</i> .	
	Hardy, M.* , Krafft, P.*, Thompson, W., & Griffiths T.L. (2022). Overcoming individual limitations through distributed computation: Rational information accumulation in multi-generational populations. <i>Topics in Cognitive Science</i> .	
Articles in prep	Hardy, M. , Hofman, J., Zhang, S., Hullman, J. & Goldstein, D. How useful is the wrong model? Improving out-of-domain prediction using local models.	
	Dubey, R., Hardy, M. , Bhui, R. & Griffiths T.L. Using AI-Generated art to increase support for green infrastructure projects.	
	Garcia-Bernardo, J., Neu, Z., Hardy, M. , Santoro, A., Krafft, P.M., Morgan, A., Alorić, A. & Griffiths T.L. Collective processing of long-form text in multi-generational social networks.	

Talks & posters **Hardy, M.** (2022). Optimal nudging for cognitively bounded agents. Invited talk at the Concepts and Categories Seminar, New York University.

Garcia-Bernardo, J., Neu, Z., **Hardy, M.**, Santoro, A., Krafft, P.M., Morgan, A., Alorić, A. & Griffiths T.L. (2022). Collective information processing of long-form text in multi-generational social networks: An experimental investigation using Amazon Mechanical Turk. Poster presented at the Conference on Complex Systems CCS2022, Palma de Mallorca, Spain.

Hardy, M. (2022). Experimental evidence for bias amplification in social networks and a Bayesian solution. Invited talk at the University of California, Berkeley.

Hardy, M., Thompson, W., Krafft, P. & Griffiths T.L. (2020). Population-level amplification of perceptual bias. Talk presented at the 42nd Annual Conference of the Cognitive Science Society, virtual.

Hardy, M., Thompson, W., Krafft, P. & Griffiths T.L. (2020). Population-level amplification of perceptual bias. Poster presented at the 6th International Conference on Computational Social Science, virtual.

Callaway, F., **Hardy, M.** & Griffiths T.L. (2020). Optimal nudging. Poster presented at the 42nd Annual Conference of the Cognitive Science Society, virtual.

Hardy, M., Thompson, W., Krafft, P. & Griffiths T.L. (2019). Population-level amplification and suppression of individual biases. Talk presented at the 1st Symposium on Biases in Human Computation and Crowdsourcing, Sheffield, UK.

Hardy, M., Callaway, F. & Griffiths T.L. (2019). Optimal nudging. Poster presented at the Multi-disciplinary Conference on Reinforcement Learning and Decision Making, Montreal, Canada.

Hardy, M. & Griffiths T.L. (2019). Demonstrating the importance of prior knowledge in risky choice. Poster presented at the 41st Annual Conference of the Cognitive Science Society, Montreal, Canada.

Teaching	PSY 251 - Quantitative Methods Assistant Instructor Princeton University	Spring 2020 & 2021
Service and outreach	Co-organizer Learning in networks conference Princeton, NJ	April 2023 (expected)

	Psychology Graduate Student Committee Member 2020-2021 Professional Development Subcommittee Princeton University
	Mentor and Tutor 2015-2018 Working Women Community Centre Toronto, Canada
Industry experience	Research Intern June - September 2022 Microsoft Research, Computational social science group Interned with Dan Goldstein and Jake Hofman
	Data Science Intern June - August 2018 Via Transportation
	Research Assistant August - December 2017 University of Toronto, Department of Psychology Professor Susanne Ferber
	Research Assistant May - September 2015 & 2016 Massachusetts Institute of Technology, Department of Economics Professors Jerry Hausman and Whitney Newey
Selected skills	<i>Programming:</i> Python, R, Javascript, Stan, HTML, CSS, Julia, MATLAB <i>Software & tools:</i> LATEX, Git, Bash, Excel <i>Spoken languages:</i> English, Slovenian