

## Mathew Hardy

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<b>Education</b>	<b>Princeton University</b>	September 2018 - Summer 2023 (expected)
	PhD in Psychology Advisors: Thomas L. Griffiths and Jonathan D. Cohen	
	<b>University of Toronto</b>	August 2017
	Honours Bachelor of Science with High Distinction Majors in Economics and Statistics, minor in Mathematics	
<b>Fellowships &amp; awards</b>	DoD NDSEG Fellowship	September 2020
	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
<b>Journal articles</b>	<b>Hardy, M.*</b> , Thompson, W.*, Krafft, P. & Griffiths T.L. (2022). Bias amplification in experimental social networks is reduced by resampling. Under review.	
	Callaway, F.*, <b>Hardy, M.*</b> & Griffiths T.L. (2022). Optimal nudging for cognitively bounded agents: A framework for modeling, predicting, and controlling the effects of choice architectures. Under review.	
	<b>Hardy, M.*</b> , Krafft, P.*, Thompson, W., & Griffiths T.L. (2022). Overcoming individual limitations through distributed computation: Rational information accumulation in multi-generational populations. Topics in Cognitive Science.	
<b>Talks &amp; posters</b>	Garcia-Bernardo, J., Neu, Z., <b>Hardy, M.</b> , 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 to be presented at the Conference on Complex Systems CCS2022, Palma de Mallorca, Spain.	
	<b>Hardy, M.</b> (2022). “Experimental evidence for bias amplification in social networks and a Bayesian solution.” University of California, Berkeley.	
	<b>Hardy, M.</b> , 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.	
	<b>Hardy, M.</b> , 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.

**Working papers** **Hardy, M.**, Hofman, J. & Goldstein, D. How useful is the wrong model? Improving out-of-sample prediction using within-sample modeling.

Garcia-Bernardo, J., Neu, Z., **Hardy, M.**, Santoro, A., Krafft, P.M., Morgan, A., Alorić, A. & Griffiths T.L. Collective information processing of long-form text in multi-generational social networks.

**Teaching** **PSY 251 - Quantitative Methods** Spring 2020 & 2021  
Assistant Instructor  
Princeton University

**Relevant 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

**Skills** *Programming:* Python, R, Stan, Javascript, HTML, CSS, Julia, MATLAB  
*Software & tools:* LATEX, Git, Bash, Stata, Excel  
*Spoken languages:* English, Slovenian