Mathew Hardy

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Education

Princeton University September 2018 - Present
PhD in Psychology, certificate in Statistics and Machine Learning
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

National Defense Science and Engineering Graduate Fellowship September 2020
Summer School on the Cognitive Foundations of Economic Behavior July 2019
Summer Institute on Bounded Rationality June 2019
Centennial Fellowship in the Natural Sciences September 2018
Milan Surducki Memorial Scholarship September 2014

Journal papers

Krafft, P., Thompson, W., **Hardy, M.**, & Griffiths T.L. (2021). Overcoming individual limitations through distributed computation: Rational information accumulation in multi-generational populations. Submitted for review.

Talks & posters

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.

Papers in prep

Hardy, M., Thompson, W., Krafft, P. & Griffiths T.L. Optimal mitigation of social bias amplification.

Callaway, F., **Hardy, M.** & Griffiths T.L. A resource-rational approach to behavioral nudging.

Hardy, M. & Griffiths T.L. Investigating the role of prior knowledge in risky choice and bandit problems.

Teaching

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

Relevant experience

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, SQL
Software & tools: LATEX, Git, Bash, Stata, Excel
Spoken languages: English, Slovenian