

Ryan Webb

PERSONAL INFORMATION	Room 568 - 105 St. George St. Rotman School of Management University of Toronto Toronto, Ontario, M5S 3E6	<i>Phone:</i> (416) 978-4418 <i>E-mail:</i> ryan.webb@utoronto.ca
RESEARCH FIELDS	Neuroeconomics, Discrete Choice Quantitative Methods	
CURRENT POSITIONS	University of Toronto , Toronto, Ontario <i>Associate Professor</i> <i>Director, TD-Management Data and Analytics Lab</i> <i>Rotman School of Management</i>	2021 - Current
PREVIOUS POSITIONS	University of Toronto , Toronto, Ontario <i>Assistant Professor</i> <i>Rotman School of Management</i>	2014 - 2021
	California Institute of Technology , Pasadena, California <i>Visiting Associate</i> <i>Department of Humanities and Social Sciences</i>	2017
	New York University , New York, NY <i>Postdoctoral Fellow at Center for Neuroeconomics</i> <i>Principal Investigator: Paul W. Glimcher</i>	2011 - 2014
	Queen's University , Kingston, Ontario <i>Teaching Fellow</i> <i>Department of Economics</i>	2008 - 2010
	University of British Columbia - Okanagan , Kelowna, British Columbia <i>Lecturer</i> <i>Department of Economics, Philosophy, & Political Science</i>	2006
EDUCATION	Queen's University , Kingston, Ontario, Canada <i>Ph.D., Economics</i> <i>Thesis:</i> Towards a Neural Measure of Value and the Modelling of Choice in Strategic Games <i>Supervisors:</i> Prof. Christopher Ferrall (Dept. of Economics) Prof. Michael C. Dorris (Dept. of Physiology)	2006 - 2011
	<i>Master of Arts, Economics</i> <i>Thesis:</i> Payoff-Dependent Mutation Rates in Two-Person Games: Experimental Evidence <i>Supervisors:</i> Prof. Maxwell Pak (Dept. of Economics)	2005
	University of British Columbia , Vancouver, BC, Canada B.A. with Honours, Economics; June, 2004	

GRANTS AND
AWARDS

2021 Roger Martin Excellence in Research Award - Rotman School of Management
 2021 Teaching Award - Rotman School of Management
 2020 Teaching Award - Rotman School of Management
 2020 Early Career Award - Society for Neuroeconomics
 2019 SSHRC Insight Development Grant - \$74,340, 2 years
 2019 Teaching Award - Rotman School of Management
 2018 Best Poster - International Society for Decision Neuroscience
 2017 Connaught New Researcher Award - University of Toronto
 2015 Teaching Award - Rotman School of Management
 2010 Best Paper - University of Amsterdam Summer School in Neuroeconomics

REFEREED
PUBLICATIONS

Daviet, R., Webb, R. (2023). "A Test of Attribute Normalization via a Double Decoy Effect." *Journal of Mathematical Psychology*, Vol 113.

Chiong, K., Shum, M., Webb, R. and Chen, R. (2023). "Combining Choices and Response Times in the Field: A Drift-Diffusion Model of Mobile Advertisements." *Management Science*.

Landry, P. and Webb, R., (2021). "Pairwise Normalization: A Neuroeconomic Theory of Multi-Attribute Choice." *Journal of Economic Theory*, 193.

Webb, R., Glimcher, P.W., and Louie, K. (2020). "Divisive normalization does influence decisions with multiple alternatives." *Nature Human Behavior*. <https://doi.org/10.1038/s41562-020-00941-5>.

Webb, R., Mehta, N., and Levy, I. (2020). "Assessing Consumer Demand with Noisy Neural Measurements." *Journal of Econometrics*.

Webb, R., Glimcher, P.W., and Louie, K. (2020). "The Normalization of Consumer Valuations: Context-Dependent Preferences from Neurobiological Constraints." *Management Science*.

Kurtz-David, V., Persitz, D., Webb, R. and Levy, D. (2019). "The Neural Computation of Inconsistent Choice Behavior." *Nature Communications*, 10(1):1583.

Smith, S., Krajbich, I., Webb, R. (2019). "Estimating the dynamic role of attention via random utility." *Journal of Economic Science Association*, 3(1):97.

Webb, R. (2019). The (Neural) Dynamics of Stochastic Choice. *Management Science*, 65(1):230–255.

Webb, R., Levy, I., Lazzaro, S.C., Rutledge, R.B., Glimcher, P.W. (2019). Neural Random Utility: Relating Cardinal Neural Observables to Stochastic Choice Behaviour. *Journal of Neuroscience, Economics, and Psychology*, 12(1):45–72.

Louie, K., Glimcher, P.W., Webb, R. (2015). Adaptive neural coding: from biological to behavioral decision-making. *Current Opinion in Behavioral Science*, Vol. 5, 91–99.

Telpaz, A., Webb, R. Levy, D. (2015). Using EEG measurements to predict consumers' future choices. *Journal of Marketing Research*, Vol. 52, No. 4, 511–529.

Louie, K., LoFaro, T., Webb, R., Glimcher, P.W. (2014). Dynamic divisive normalization predicts time-varying value coding in decision-related circuits. *Journal of Neuroscience*, Vol. 34, No. 48, pp. 16046–16057.

LoFaro, T., Louie, K., Webb, R., Glimcher, P.W. (2014). The temporal dynamics of cortical normalization models of decision-making. *Letters in Biomathematics*, Vol. 1, pp. 209–220.

Thevarajah, D.* , Webb, R.* , Ferrall, C., and Dorris, M.C. (2010). Modelling the Value of Strategic Actions in the Superior Colliculus. *Frontiers in Behavioral Neuroscience*, Vol 3., No. 57, pp. 1–14.

BOOK CHAPTERS Camerer, C. F., Landry, P., and Webb, R. (forthcoming). "The NeuroEconomics of Habit" In A. Kirman, M. Tedeschi (eds), *The State of Mind in Economics* (Oxford University Press).

WORKING PAPERS Camerer, C., Landry, P., Osbourne, M., Webb, R., Zhao, C. "A Neuro-Autopilot Theory of Habit: Evidence from Canned Tuna."

Cross, L. Webb, R., Griggs, W., O'Doherty, John P. "Examining the prefrontal cortex gradient in complexity and attribute representation during bundle valuation", In Preparation.

Hoelzemann, J., Webb, R., Xie, E. "Non-Parametric Identification and Testing of Quantal Response Equilibrium."

Izaakson, L., Yoo, M., Webb, R., Krajchich, I., Levy, D. "Not only contrast: an assimilation effect of context on value-based decisions."

CONFERENCE AND SEMINAR PRESENTATIONS	2023	University of Michigan, Tel Aviv University, University of Pennsylvania (Wharton), McGill University
	2022	Chicago Booth, University of Zurich, Virtual Quant Marketing Seminar, Society for Neuroeconomics Annual Meeting
	2019	Berkeley (Haas), Penn (Wharton), Carnegie Mellon, Paris School of Economics - Roy Seminar, Erasmus, LMU Munich, Virginia Tech, McGill, Sloan-Nomis Workshop on the Cognitive Foundations of Economic Behavior, 11th Triennial Choice Symposium, 3rd Conference on Structural Dynamic Models (U Chicago), Economic Science Association (N.Am.) Choice Process Workshop
	2018	Sloan-Nomis Workshop on Attention and Choice (NYU), Society for Neuroeconomics, Foundations of Utility and Risk, Economic Science Association (Berlin), Sloan-Nomis Workshop on the Cognitive Foundations of Economic Behavior
	2017	Stanford GSB, CalTech, University of Zurich, Simon Fraser University, Maastricht University, Cosyne, Interdisciplinary Symposium on Decision Neuroscience (Stanford), Marketing Science (USC), Barcelona GSE Summer Forum, Brookings Institute Conference in Honor of Nobel Laureate Daniel McFadden (USC)
	2016	McGill, 10th Triennial Choice Symposium, Society for Neuroeconomics, Economics Science Association (N.Am.)
	2015	Paris School of Economics, Ohio State University, University of Toronto - Psychology, Canadian Economics Association, Marketing Science, French Experimental Economics Association, Economic Science Association (N.A.)
	2014	Northwestern University, University of New South Wales, Maastricht University, Simon Fraser University, Aix Marseille University, Université Catholique de Louvain, University of Melbourne, University of Toronto, The 16th Conference of the Foundations of Utility and Risk, Canadian Economics Association
	2013	Harvard University, Society for Neuroeconomics, Canadian Economics Association

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| 2012 | University of Zurich, Maastricht University, Economic Science Association (International), Society for Neuroeconomics, Society for Neuroscience, Economic Science Association (N.Am.) |
| 2011 | University of Victoria, Economic Science Association (N.Am.), Canadian Economics Association, Society for Neuroeconomics (poster) |
| 2010 | New York University, Canadian Economics Association, Society for Neuroeconomics (poster) |
| 2009 | Canadian Economics Association |

PUBLIC LECTURES	<p>“Consumer Choices: Predicting the Unpredictable”. University of Toronto President’s Circle. October 23, 2019</p>
MEDIA COVERAGE	<p>UofT Magazine, Winter (2018), <u>(Mind Games) Why Do We Make Bad Shopping Decisions?</u></p> <p>Rotman Insights (2018), <u>A Closer Look Into the Mind of the Consumer</u></p> <p>The Atlantic, August (2016), <u>What a Bad Decision Looks Like in the Brain?</u></p>
TEACHING	<ul style="list-style-type: none"> • University of Toronto <ul style="list-style-type: none"> – RSM 8512 - Predictive Analytics (Course Developer) – RSM 313 - Foundations of AI for Management (Course Developer) – RSM 250 - Introduction to Marketing • Queen’s University <ul style="list-style-type: none"> – ECON 212 - Intermediate Microeconomics • University of British Columbia - Okanagan <ul style="list-style-type: none"> – ECON 204 - Intermediate Microeconomics • PhD Students Supervised <ul style="list-style-type: none"> – Erhao Xie, 2017. Placement: Economist at Bank of Canada. – Remi Daviet, 2018. Placement: Assistant Professor of Marketing at Wisconsin-Madison.
SERVICE	<ul style="list-style-type: none"> • Rotman School of Management <ul style="list-style-type: none"> – Director, TD-Management Data and Analytics Lab 2021-Current – Rotman Executive Council, Elected Voting Member 2019-2021 – Marketing Area Seminar, Organizer, 2016-2020 – Behavioural Lab Advisory Committee, Member, 2016-2020 – PhD Entrance Committee, Marketing Area, 2015-2020 – PhD Thesis Committee, Ying Bao, 2019 • Faculty of Arts and Sciences <ul style="list-style-type: none"> – PhD Thesis Committee, Erhao Xie, 2017. – PhD Thesis Committee, Remi Daviet, 2018. Placement: Assistant Professor of Marketing at Wisconsin-Madison. – PhD Thesis Committee, Mohsen Foroughifar, 2022. • Field <ul style="list-style-type: none"> – Editorial Board of PNASnexus – Guest Editor for the Proceedings of the National Academy of Sciences – Peer reviewer (past 5 years): <ul style="list-style-type: none"> * Proceedings of the National Academy of Sciences * Science Advances * Quarterly Journal of Economics, * Journal of Political Economy, * Management Science,

- * Marketing Science,
- * Journal of European Economic Association,
- * Journal of Economic Behavior and Organization,
- * Journal of Economic Theory,
- * Journal of Economic Psychology
- * Journal of Economic Science Association,
- * Journal of Mathematical Psychology,
- * Journal of Consumer Psychology,
- * Journal of Consumer Research,
- * Organizational Behaviour and Decision Processes,
- * eLife,
- * PLOS Computational Biology,
- * PLOS1
- * National Science Foundation (US),
- * Israel Science Foundation,
- Co-chair for the Interdisciplinary Symposium for Decision Neuroscience (June 2021)
- Co-chair for the Symposium on Consumer Neuroscience (2017, held at Rotman School of Management, University of Toronto)