John McDonnell

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C U R R I C U L U M   V I T Æ

EDUCATION

2008-   **Doctoral Candidate, Cognition and Perception Program**
New York University, New York.

2004-2008   **B.A.&Sc., Cognitive Science**
McGill University, Montreal

PEER-REVIEWED PUBLICATIONS

McDonnell, J.V. and Gureckis, T.M. (submitted). "From few to many: Generalizing category labels via semi-supervised learning"

Crump, M., **McDonnell, J.V.**, Gureckis, T.M. (2013). "Evaluating Amazon's Mechanical Turk as a Tool for Experimental Behavioral Research." PLOS ONE.

Pothos, E.M., Perlman, A., Bailey, T.M., Kurtz, K., Hines, P., **McDonnell, J.V.** (2011). "Measuring category intuitiveness in unconstrained categorization tasks." *Cognition*. **121**(1):83-100. doi: 10.1016/j.cognition.2011.06.002

Giordano, B. L., **McDonnell, J.**, McAdams, S. (2010). "Hearing living symbols and nonliving icons: Category specificities in the cognitive processing of environmental sounds." *Brain and Cognition*. **73**(1):7-19. doi:10.1016/j.bandc.2010.01.005

FULL-LENGTH REFEREED CONFERENCE PUBLICATIONS

McDonnell, J.V., Tsividis, P., Rehder, B. (2013). "Reasoning with Inconsistent Causal Beliefs." In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

McDonnell, J.V., Jew, C. A., Gureckis, T. M. (2012). "Sparse category labels obstruct generalization of category membership." In N. Miyake, D. Peebles, & R. P. Cooper (Eds.), *Proceedings of the 34th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

Giordano, B.L., McAdams, S., and **McDonnell, J.** (2007). "Acoustical and conceptual information for the perception of animate and inanimate sound sources." In G.P. Scavone (Ed.), Proceedings of the 13th International Conference on Auditory Display (ICAD2007), 173–180. Montreal, Canada: Schulich School of Music, McGill University.

BOOK CHAPTER

McDonnell, J. V., Gureckis, T. M. (2011). "Adaptive Clustering Models of Categorization." In Pothos and Wills (Eds.), *Formal Approaches in Categorization*. Oxford, UK: Cambridge University Press.

MANUSCRIPTS IN PREPARATION

McDonnell, J.V., Tsividis, P., and Rehder, B. (in prep). "Resolving causal inconsistencies: A normative approach."

McDonnell, J.V., Tomkins, S., and Gureckis, T.M. (in prep). "Semi-supervised learning with ecological stimuli."

PROFESSIONAL PRESENTATIONS

Aug. 2013   "Reasoning with Inconsistent Causal Beliefs" at the 35th Annual Meeting of the Cognitive Science Society, Berlin (w/ Pedro Tsividis and Bob Rehder).

Aug. 2013   "Using Mechanical Turk and PsiTurk for Dynamic Web Experiments" at the 35th Annual Meeting of the Cognitive Science Society, Berlin (w/ Anna Coenen, Jay Martin and Doug Markant).

Nov. 2012   "Learning Categories With and Without Labels" at the 53rd Annual Meeting of the Psychonomic Society, Minneapolis. (w/ Carol A. Jew and Todd M Gureckis).

Aug. 2012   "Labels Obstruct Generalization (Sometimes)" at the 34th Annual Meeting of the Cognitive Science Society, Sapporo (w/ Carol A. Jew and Todd M Gureckis).

POSTERS

Nov. 2012   "Can Internet Data be Trusted? Validating Mechanical Turk for Cognitive Research." at the 53rd Annual Meeting of the Psychonomic Society, Minneapolis. (w/ Matthew Crump and Todd M Gureckis)

Aug. 2012   "Self-Directed Learning of Logical Rules" at the 34th Annual Meeting of the Cognitive Science Society, Sapporo. (w/ Devin Domingo and Todd M Gureckis)

Nov. 2011   "Learning from an Intermittent Teacher" at the 52nd Annual Meeting of the Psychonomic Society, Seattle. (w/ Todd M Gureckis)

Aug. 2011	"Learning from an Intermittent Teacher" at the 33rd Annual Meeting of the Cognitive Science Society, Boston. (w/ Todd M Gureckis)
Jun. 2009	"The Influence of Acquired Perceptual Categories on Trial and Error Learning in Humans" at the Multidisciplinary Symposium for Reinforcement Learning, Montreal. (w/ Todd M Gureckis)

TEACHING EXPERIENCE

Fall 2012	*Role*: TA, Mathematical Tools for Neural and Cognitive Science. *Topics*: Linear algebra and applications. Programming in Matlab. *Professors*: Eero Simoncelli and Larry Maloney.
Fall 2009	*Role*: TA, Lab in Human Cognition. *Topics*: Designing, executing, analyzing, and reporting scientific work. Programming in R. *Professor*: Todd Gureckis.

HONORS AND FELLOWSHIPS

2006	AGA Student Fellowship Award *Competitive funded award for Summer research work.*

PREVIOUS ACADEMIC WORK

2006-2007	Research Assistant, McAdams Lab (Auditory cognition and perception) *Centre for Interdisciplinary Research in Music Media and Technology (CIRMMT), Montreal, Canada*
2005-2006	Summer Research Assistant, Grady Lab (Molecular biology and biochemistry of gastroenterological carcinogenesis) *Fred Hutchinson Cancer Research Center, Seattle*