

Ian Dennis Miller

Department of Psychology
Sidney Smith Hall, 4th Floor
100 St. George St.
Toronto, ON M5S 3G3
Canada

Web: <http://imiller.uts.utoronto.ca/>
Email: i.miller@utoronto.ca
Phone: +1 (617) 444 9347

Research Interests

Ian is interested in collective human intelligence. His research uses memes to gain insight into the psychological processes that underlie idea propagation across networks. Ian combines experimental methods with agent-based modeling to simultaneously investigate individuals and populations.

keywords: social psychology, memes, social networks, agent-based modeling, contagion, cognitive science, artificial intelligence.

Education

M.A. Psychology, University of Toronto, 2012.

Thesis Title: The Social Transmission of User-Generated Memes. doi:1807/67214

B.S. Cognitive Science, Carnegie Mellon University, 2003.

Publications

Conference Papers

Miller, I. D. & Cupchik, G. C. (2016a). A Synthetic World Population for Agent-Based Social Simulation. In *Proceedings of the 4th Collective Intelligence Conference*. New York, NY, USA. doi:10.6084/m9.figshare.3427460.v1.

Miller, I. D. & Cupchik, G. C. (2014c). Meme creation and sharing processes: Individuals shaping the masses. In *Proceedings of the 2nd Collective Intelligence Conference*. Cambridge, MA, USA. arXiv: 1406.7579.

Other Publications

Harley, D., Henke, J., Lawrence, S., Miller, I. D., Perciali, I., & Nasatir, D. (2006). *Use and Users of Digital Resources: A Focus on Undergraduate Education in the Humanities and Social Sciences*. Center for Studies in Higher Education. Berkeley, CA, USA. doi:10.6084/m9.figshare.3427445.

Presentations

Talks

Miller, I. D., MacInnis, C. C., & Page-Gould, E. (2017a). Cross-group Interaction and Contact. Presented at the Dynamical Systems preconference at the Society for Personality and Social Psychology. San Antonio, TX, USA.

Miller, I. D. (2016a). Databases and SQL. Presented at the monthly University of Toronto Coders Meeting. Toronto, ON, Canada.

Miller, I. D. (2016b). Networks, Complexity, and Intelligence. Presented at the monthly meeting of the Internet Research Network. Toronto, ON, Canada.

- Miller, I. D. & Cupchik, G. C. (2014a). Disagreement in Online Discussion. Presented at the annual meeting of the Motivation and Emotion Science Summit. Long Beach, CA, USA. doi:10.6084/m9.figshare.3428081.v1.
- Miller, I. D. (2013b). Software Wrote my Thesis and I Wrote the Software. Presented at the bi-monthly meeting of St. George WIDEN. Toronto, ON, Canada. doi:10.6084/m9.figshare.3428162.v1.
- Miller, I. D. (2013a). A Vision of Viral Science. Presented at the monthly meeting of the Graduate Student Seminar Series. Toronto, ON, Canada. doi:10.6084/m9.figshare.3428165.v1.
- Miller, I. D. & Cupchik, G. C. (2013b). The Ends Justify the Memes. Presented at the annual meeting of the Motivation and Emotion Science Summit. Tuscaloosa, AL, USA. doi:10.6084/m9.figshare.3428171.v1.
- Miller, I. D. & Cupchik, G. C. (2012b). Memelab: Can pictures of adorable kittens explain political revolutions? Presented at the bi-monthly meeting of WIDEN UTSC. Toronto, ON, Canada. doi:10.6084/m9.figshare.3428180.v1.
- Miller, I. D. & Cupchik, G. C. (2012a). Memelab. Presented at the Rotman School of Management Creative Destruction Labs Democamp. Toronto, ON, Canada. doi:10.6084/m9.figshare.3428183.v1.

Posters

- Miller, I. D., MacInnis, C. C., & Page-Gould, E. (2017b). Intergroup Contact Effects Produced by Simulated Intergroup Interactions. In 18th Meeting of the Society for Personality and Social Psychology. San Antonio, TX, USA..
- Miller, I. D. & Cupchik, G. C. (2016b). Agent Based Modeling of Emotional Selection in Urban Legends. Presented at the 28th Convention of the Association for Psychological Science. Chicago, IL, USA. doi:10.6084/m9.figshare.3427301.
- Miller, I. D. & Cupchik, G. C. (2014b). Do Earthlings go online for different reasons. Presented at the 15th Meeting of the Society for Personality and Social Psychology. Austin, TX, USA. doi:10.6084/m9.figshare.3426578.v1.
- Miller, I. D. & Cupchik, G. C. (2013a). Memelab: Motivation and viral impact. Presented at the 14th Meeting of the Society for Personality and Social Psychology. New Orleans, LA, USA. doi:10.6084/m9.figshare.3427175.v1.
- Miller, I. D. & Cupchik, G. C. (2012c). Memelab: Longitudinal meme sharing. Presented at the 24th Convention of the Association for Psychological Science. Chicago, IL, USA. doi:10.6084/m9.figshare.3427118.v1.

Awards and Grants

- 2013 Miller, I., Cupchik, G., Dorfman, R. *MITACS Accelerate Grant*. \$15,000.
- 2013 Miller, I. *SGS Conference Grant*. \$550.
- 2012 Miller, I. University of Toronto Master's Thesis Poster Award.
- 2011 Cupchik, G. & Miller, I. *University of Toronto Research Competitiveness Grant*. \$10,000.
- 2011 Miller, I. *Google I/O "Last Call" Conference Award*. \$900.

Academic Service

- 2014 Journal of Social and Personal Relationships; ad hoc reviewer.
- 2013 Association of Psychological Science; poster reviewer.
- 2013 Canadian Psychological Association; poster reviewer.

Teaching

- 2014 *Relationships*. Teaching Assistant for Prof. Gerald Cupchik.
- 2014 *Drugs and the Brain*. Teaching Assistant for Dr. Zachariah Campbell.
- 2013 *Drugs and the Brain*. Teaching Assistant for Prof. Suzanne Erb.
- 2013 *History of Psychology*. Teaching Assistant for Prof. Gerald Cupchik.
- 2012 *History of Psychology*. Teaching Assistant for Prof. Gerald Cupchik.
- 2011 *History of Psychology*. Teaching Assistant for Prof. Gerald Cupchik.

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