

**CURRICULUM VITAE**  
**H. Moriah Sokolowski**  
 Department of Psychology  
 The University of Western Ontario

**Address:** Department of Psychology  
 Western University  
 Westminster Hall, Room 215  
 361 Windermere Road  
 London, ON  
 N6A 3K7

**Education:**

2015-2019 PhD in Developmental Psychology (in progress) at Western University  
 2013-2015 Masters of Science in Developmental Psychology at Western University  
**Sokolowski, H. M.** (2015, July) Common and distinct brain regions support numerical and non-numerical magnitude processing: A functional neuroimaging meta-analysis. (Master's dissertation). University of Western Ontario, London Ontario.  
 2009-2013 Bachelors of Science (Honors) Specialization in Psychology at Western University  
**Sokolowski, H. M.** (2012) Training of early numeracy skills in preschool and kindergarten: An iPad training study. (Honours Bachelor's dissertation). University of Western Ontario, London Ontario.

**Refereed Publications:**

**Sokolowski, H. M.**, Hawes, Z., Leibovitch, T., & Ansari, D. (In Preparation) A novel enumeration stroop paradigm reveals the relation between symbolic and nonsymbolic numbers.  
**Sokolowski, H. M.**, Hawes, Z., Lyons, I. M. (In Preparation) What explains sex differences in math anxiety? A closer look at the role of spatial processing.  
**Sokolowski, H. M.**, Ansari, D. (In Preparation) Math Anxiety: How it develops, what it does to the brain, and what to do about it. *Frontiers for Young Minds*.  
**Sokolowski, H. M.**, Fias, C., Onyoe, A, & Ansari, D. (In Press) Are numbers grounded in a general magnitude processing system? A functional neuroimaging meta-analysis. *Neuropsychologia*.  
**Sokolowski, H. M.**, Fias, W., Mousa, A, & Ansari, D. (2016) Common and distinct brain regions support symbolic and nonsymbolic numerical magnitude processing in humans: A functional neuroimaging meta-analysis. *Neuroimage*.  
**Sokolowski H. M.**, Vasquez, O. E., Unternaehrer, E., Sokolowski, D. J., Biergans, S. D., Atkinson, L., Gonzalez, A., Silveira, P. P., Levitan, R., O'Donnell, K. J., Steiner, M. Kennedy, J. Meany, M. J., Fleming, A. S., Sokolowski, M. B. on behalf of the MAVAN and Toronto Longitudinal Cohort research teams. (2016) The Drosophila foraging gene human orthologue PRKG1 predicts individual differences in the effects of early adversity on maternal sensitivity. *Cognitive Development*.

- Sokolowski, H.M.** & Ansari, D. (2016) Symbolic and nonsymbolic representation of number in the human parietal cortex: a review of the state-of-the art, outstanding questions and future directions. *Continuous Issues in Numerical Cognition*, San Diego, CA: Elsevier.
- Sokolowski, H. M.**, & Necka, E. A. (2016) Remediating math anxiety through cognitive training: Potential roles for math ability and social context. *Journal of Neuroscience*. Journal Club Article. 36(5), 1439-1441.
- Necka, E. A., **Sokolowski, H. M.**, Lyons, I.M. (2015) The role of self-math overlap in understanding math anxiety and the relation between math anxiety and performance. *Journal of Neuroscience*. *Frontiers in Psychology - Cognition*. 6, 1542. DOI: 10.3389/fpsyg.2015.01543
- Sokolowski, H. M.**, Clouston, B. J., Gill, G., Kim, C. & Worgan, R. (2013) Grass type, vegetation cover, and predation affect abundance of *Microtus californicus* and *Thomomys bottae* in coastal Mediterranean ecosystem. *Immediate Science Ecology*. 2: 11-7. DOI: 10.7332/ise2013.2.2.dsc.
- Menon, M., Quilty, L. C., Zawadzki, J. A., Woodward, T. S., **Sokolowski, H. M.**, Boon, H. S. & Wong, A. H. (2013). The role of cognitive biases and personality variables in subclinical delusional ideation. *Cognitive Neuropsychiatry*. 18(3):208-218. DOI: 10.1080/13546805.2012.692873.
- Zawadzki, J. A., Woodward, T. S., **Sokolowski, H. M.**, Boon, H. S., Wong, A. H., & Menon, M. (2012). Cognitive factors associated with subclinical delusional ideation in the general population. *Psychiatry Research*. *Psychiatry Research*. 197(3):345-349. DOI: 10.1016/j.psychres.2012.01.004.

#### **Additional Publications:**

- Sokolowski, H. M.** (2014) Child and brain development program meeting: Brain development, cognition and education. Report for the 30<sup>th</sup> program meeting for the Canadian Institute for Advanced Research. London, UK.

#### **Scholarships & Awards:**

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| 2015-2018 | NSERC Alexander Graham Bell Canada Graduate Scholarship (CGS-D) (\$105 000) |
| 2016-2017 | Doctoral Excellence Research Award (\$10 000)                               |
| 2016-2017 | Western Graduate Research Scholarship (\$5900)                              |
| 2015-2016 | Western Graduate Research Scholarship (\$8000)                              |
| 2014-2015 | Western Graduate Research Scholarship (\$10 000)                            |
| 2013-2014 | NSERC Alexander Graham Bell Canada Graduate Scholarship (CGS-M) (\$17,500)  |
| 2013-2014 | Western Graduate Research Scholarship (\$1500)                              |
| 2013      | Clark and Mary J. Wright Scholarship (\$1000)                               |
| 2010-2013 | Deans Honour List   |
| 2012      | Institute of Medical Sciences Best Poster Presentation Award (\$50)         |
| 2012      | Summer Undergraduate Research Scholarship (\$2400)                          |
| 2011      | Summer Undergraduate Research Scholarship (\$2400)                          |
| 2010      | Summer Undergraduate Research Scholarship (\$2400)                          |

2009-2010 University of Western Ontario Entrance Scholarship (\$2000)  
 2009 David Oucherlony Leadership Award (\$50)

### **Academic Positions:**

Winter 2015 Teaching Assistant for Psychology 3480G – Research in Developmental  
 Fall 2014 Psychology  
 Fall 2014 Teaching Assistant for Psychology 2042A- Exceptional Children: Behaviour  
 Winter 2014 Disorders  
 Teaching Assistant for Psychology 2043A- Exceptional Children:  
 Developmental Disorders  
 Teaching Assistant for Psychology 3480G – Research in Developmental  
 Psychology  
 Fall 2013 Teaching Assistant for Psychology 2042A- Exceptional Children: Behaviour  
 Fall 2013 Disorders  
 Teaching Assistant for Psychology 2043A- Exceptional Children:  
 Developmental Disorders  
 Summer 2013 Research Assistant in Maternal Behavioural Neuroscience Laboratory at the  
 University of Toronto Mississauga with Dr. Alison Fleming  
 Winter 2013 Research Assistant in the Numerical Cognition Laboratory at the University  
 of Western Ontario with Dr. Daniel Ansari  
 Summer 2012 Research Assistant in Maternal Behavioural Neuroscience Laboratory at the  
 University of Toronto Mississauga with Dr. Alison Fleming  
 Summer 2011 Research Assistant in Maternal Behavioural Neuroscience Laboratory at the  
 University of Toronto Mississauga with Dr. Alison Fleming  
 2010-2011 Research Assistant in the Cerebral Systems Laboratory, Department of  
 Physiology and Pharmacology and Department of Psychology at the  
 University of Western Ontario with Dr. S. Lomber  
 Summer 2010 Research Assistant in the Molecular Neuroscience of Schizophrenia  
 Laboratory at the Center for Addiction and Mental Health, Department of  
 Psychiatry, Department of Pharmacology, with Dr. Albert Wong  
 2009-2010 Research Assistant in the Insect Cold Tolerance Laboratory, Department of  
 Biology, University of Western Ontario with Dr. Brent Sinclair

### **Poster Presentations:**

**Sokolowski. H. M.** & Ansari, D. (2016, June) Developmental changes in the neural correlates of number processing: A functional neuroimaging meta-analysis. Poster at the EARLI-SIG 22 “Neuroscience and Education”, Amsterdam, Netherlands.

**Sokolowski. H. M.**, Fias, W., & Ansari, D. (2015, October) Common and distinct brain regions support symbolic and nonsymbolic numerical magnitude processing: A functional neuroimaging meta-analysis. Poster at the Education and Neuroscience Symposium, Hannover, Germany.

**Sokolowski. H. M.**, Fias, W., & Ansari, D. (2015, September) Common and distinct brain regions support symbolic and nonsymbolic numerical magnitude processing: A functional neuroimaging meta-analysis. Poster at the Inaugural Brain and Mind Institute Symposium, University of Western Ontario, London, ON.

- Sokolowski, H. M.**, Fias, W., & Ansari, D. (2015, May) Are numbers specialized or grounded in a generalized for magnitude representation: A functional neuroimaging meta-analysis. Poster at the NIH Math Conference, St. Louis, Missouri, USA.
- Sokolowski, H. M.**, Fias, W., & Ansari, D. (2014, January) Are numbers specialized or grounded in a general magnitude system? A quantitative meta-analysis. Poster at the LOVE conference, Niagara Falls, Ontario Canada.
- Matejko, A., **Sokolowski, H. M.**, & Ansari, D. (2013, April). Early numeracy skills in preschool and kindergarten children: an iPad pilot study. Poster at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA, USA.
- Sokolowski, H. M.**, Matejko, A., & Ansari, D. (2013, April) Training of early numeracy skills in preschool and kindergarten: An iPad training study. Poster presented at the University of Western Ontario Honours Thesis Poster Day, London Ontario.
- Matejko, A., Erdeg, B., Lefcoe, A., **Sokolowski, H. M.**, & Ansari, D. (2012, September). Training early numeracy skills in Kindergarten children: and iPad pilot study. Poster presented at the Connought Global Challenge Symposium, Institute for Human Development, Toronto, Ontario. **\*Award Winning Poster**
- Browne, D.T., Agrati, D., Akbari, E., de Medeiros, C., **Sokolowski, H.M.**, Sokolowski, M.B., Kennedy, J., Meaney, M., Steiner, M & Fleming, A.S. (2012, September) Maternal anxiety from pregnancy to two years post-partum: Examining the interactive roles of 5-HTTLPR and early child trauma. Presented at Connaught Global Challenge International Symposium, Institute for Human Development, Toronto Ontario.
- Sokolowski, H.M.**, Mileva-Seitz V., Kennedy, J.L., Meaney, M. J. Sokolowski, M. B., & Fleming, A. S. (2012, August) Corticotrophin Releasing Hormone Receptor 1 (CRHR1), life events and maternal behavior: A MAVAN Project. Presented at the University of Toronto Institute of Medical Sciences Research Day, Toronto Ontario. **\*Award Winning Poster**
- Wonch, K.E., Steiner, M, de Medeiros, C.B., Barrett, J.A., **Sokolowski, HM.**, Fleming, A.S. & Hall, G. (2012) The neural correlates of responsiveness to infant cues in mothers with and without postpartum depression. University of Toronto, Psychology. Presented at McMaster Brain and Body Conference, Hamilton, Ontario.
- Zawadzki, J.A., Menon, M., Quilty, L.C., Woodward, T.S., **Sokolowski, H.M.**, Boon, H.S. & Wong, A.H.C. (2012, July) Predictors of Sub-clinical delusional ideation in the general population. Center for Addiction and Mental Health. Presented at the Gordon Conference on the neurobiology of cognition, Lucca (Barga), Italy.
- Sokolowski, H.M.**, Wonch, K., De Medeiros, D., Barrett, J., Hall, G., Steiner, M. & Fleming, A.S. (2011, August) fMRI activation patterns in new mothers suffering from post-partum depression in response to infant pictures. Presented at the University of Toronto Institute of Medical Sciences Research Day, Toronto Ontario.
- Sokolowski, H.M.**, John Zawadzki, Heather Boon, Mahesh Menon and Albert H. C. Wong (2010, August) Cognitive factors associated with belief formation in the general population. Presented at the University of Toronto Institute of Medical Sciences Research Day, Toronto Ontario.

#### **Oral Presentations:**

- Sokolowski, H. M.** & Ansari, D. (2016, April) Developmental changes in the neural correlates of symbolic number processing: A functional neuroimaging meta-analysis. Oral

Presentation at the “Typical and atypical development of numerical cognition: evidence from brain and behaviour”, Jerusalem, Israel.

- Sokolowski, H. M.** (2015) Common and distinct brain regions support numerical and non-numerical magnitude processing: A functional neuroimaging meta-analysis. Developmental Brown Bag, University of Western Ontario, Canada.
- Sokolowski, H. M.** (2015, October) Symbolic and nonsymbolic numbers in the brain: A neuroimaging meta-analysis. High School Outreach Talk, London, ON.
- Sokolowski, H. M.** (2014) Are numbers specialized or grounded in a generalized magnitude system? A functional neuroimaging meta-analysis. Developmental Brown Bag, University of Western Ontario, Canada.
- Sokolowski, H. M.** (2014) Language Development. Guest Lecture in Course 2043A Exceptional Child: Developmental Disorders, University of Western Ontario, London Ontario.
- Sokolowski, H. M., Ansari, D.** (2013, September) A theory of magnitude. Lab Retreat Presentation, Bayfield, Ontario.
- Sokolowski, H. M., Sokolowski, M. B. & Fleming, A.** (2013, December) Gene-Environment Interplay: A MAVAN Study, University of Toronto.
- Sokolowski, H. M., Ansari, D.** (2013) A theory of magnitude. Developmental Brownbag London, Ontario.
- Sokolowski, H. M.** (2013) A theory of magnitude. Developmental Brown Bag, University of Western Ontario, Canada.
- Sokolowski, H. M.** (2013) The development of early numeracy. Guest Lecture in Course 2043A Exceptional Child: Developmental Disorders, University of Western Ontario, London Ontario.
- Sokolowski, H.M., & Matejko, A.** (2012) Early development of numeracy skills through technology. Presentation for teachers at London District School Board Professional Development Day.

### **Academic Activities**

- Assistant to Conference Organizer of the International Mind, Brain and Education Conference, September 2016, Toronto Ontario.
- Co-Organizer of the Developmental Brown Bag Series 2015/16 in the Department of Developmental Psychology at The University of Western Ontario, Canada.

### **Ad Hoc Reviews**

#### *Journal Articles*

- Frontiers for Young Minds (Science Mentor)
- British Journal of Educational Psychology
- Developmental Cognitive Neuroscience
- Language Learning and Development
- Psychonomic Bulletin & Review

### **Advanced Courses/Workshops**

- Statistical Horizons, Structural Equation Modeling. (July 11-15, 2016). Chicago, Illinois.