

Jane Hutchison

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Education

- Expected
May 2021 **Georgetown University**, Washington, DC
PhD Student in Psychology (Human Development and Public Policy)
Advisors: Dr. Deborah Phillips & Dr. Ian Lyons
- 2018 **Georgetown University**, Washington, DC
Masters of Public Policy (MPP)
Advisor: Adam Thomas
Thesis Title: *The Role of Preschool Math Instruction in the Development of Early Executive Functioning Skills*
- 2015 **The University of Western Ontario**, London, ON
B.A. Honors Specialization in Psychology (Developmental Cognitive Neuroscience)
Advisor: Dr. Daniel Ansari
Thesis Title: *An Investigation of the Neural and Behavioral Correlates Distinguishing Numerical from Non-Numerical Ordering*

Research Experience

- Sept. 2016 – Present **Graduate Research Fellow**, Child Development and Social Policy Lab (Deborah Phillips) & Math Brain Lab (Ian Lyons)
- Sept. 2016 - June 2018 **Graduate Research Fellow**, Development and Research in Early Math Education (DREME) Network
Georgetown University, Washington, D.C
Supervisor: Dr. Deborah Phillips
Responsible for:
- Developing and using a coding scheme intended to capture the parental support of executive functioning skills in preschool children during parent-child free play.
 - Maintaining cross-site communication with others working on the coding project.
 - Participating in biweekly network-wide conference calls.
 - Analyzing data
 - Contributing to and leading research presentations and publications
- May 2015 - Aug 2016 **Full-time Research Assistant**, Numerical Cognition Lab
The University of Western Ontario, London, ON.
Supervisor: Dr. Daniel Ansari
Responsible for:
- Recruiting participants for a developmental neuroimaging study

- Administering standardized tasks to both typically and atypically developing children (ages 6-16)
- Assisting with fMRI research
- fMRI data preprocessing and analysis using Brain Voyager
- Inputting and analyzing behavioral data using SPSS and excel
- Literature reviews

Sept 2014-
May 2015 **Honors Thesis Student**, Numerical Cognition Lab
The University of Western Ontario, London, Ontario
Supervisor: Dr. Daniel Ansari

Responsible for:

- Assisting with an fMRI project investigating the neural correlates of numerical and non-numerical ordering in an adult sample
- Recruiting participants, administering standardized tasks, assisting with fMRI protocol, preprocessing and analyzing data
- Presenting data in a poster format

Achievements, Awards, Scholarships

Nov 2018 Fall 2018 Conference Travel Grant – US\$150

March 2018 Spring 2018 Conference Travel Grant – US\$300

March 2017 Spring 2017 Conference Travel Grant – US\$400

April 2016 Offered Ontario Graduate Scholarship (OGS) – Cd\$15,000

June 2015 The McClelland Award for Best 4th Year Thesis – Cd550\$
Winning Paper: An Investigation of the Neural and Behavioral Correlates Distinguishing Numerical from Non-Numerical Ordinal Processing

June 2015 Gold Medal in Developmental Cognitive Neuroscience for Highest Graduating Average

June 2015 Certificate of Academic Excellence from the Canadian Psychological Association for Undergraduate Honors Thesis

Sept 2015 Overall winner in the Undergraduate Awards in the ‘Education’ category
Winning Paper: Bringing Neuroscience to the Classroom: A Case for the Value of Mind, Brain and Education

2013, 2015 Dean’s Honor List

Peer-Reviewed Publications

Hutchison, J.E., Ansari, D., Zheng, S., De Jesus, S., & Lyons, I.M. (2019). The relation between subitizable symbolic and non-symbolic number processing over the kindergarten school-year. *Developmental Science*, e12884.
<https://doi.org/10.1111/desc.12884>

Matejko, A. A¹., **Hutchison, J. E**¹., & Ansari, D. (2019). Developmental specialization of the left intraparietal sulcus for symbolic ordinal processing. *Cortex*.
[10.1016/j.cortex.2018.11.027](https://doi.org/10.1016/j.cortex.2018.11.027)

Hutchison, J.E., Lyons, I.M., & Ansari, D. (2018). More similar than different: Gender differences in basic numeracy are the exception not the rule. *Child Development*, 1-14.
<https://doi.org/10.1111/cdev.13044>

Presentations

Hutchison, J.E., & Phillips, D. (2019, March). Can Preschool Math Instruction Simultaneously Support the Development of Early Executive Function and Math Skills. Poster presented at the Biennial Meeting for the Society for Research in Child Development, Baltimore, MD, USA.

Phillips, D., **Hutchison, J.E.**, Castle, S., Schochet, O., Johnson, A. (2019, March). Patterns of Enrollment, Migration, and Classroom Experiences Across 3 and 4-year-old Publicly-Funded Preschool. Oral presentation at the Biennial Meeting for the Society for Research in Child Development, Baltimore, MD, USA.

Partika, A., Johnson, A., Schochet, **Hutchison, J.E.**, Dericks, A., Castle, S. (2019, March). Effects of Preschool Classroom Supports on the Language Skills of Dual Language Learners. Oral presentation at the Biennial Meeting for the Society for Research in Child Development, Baltimore, MD. USA.

Hutchison, J.E., & Phillips, D. (2018, November). The role of preschool math instruction in the development of early executive functioning and math skills. Poster presented at the Association for Public Policy Analysis & Management Fall Research Conference, Washington, DC, USA.

Hutchison, J.E., Longo, F., & Phillips, D. (2018, June). Parental support of executive functioning during parent-child free play: An exploratory study. Poster Presentation and the National Research Conference on Early Childhood. Washington DC, USA.

Hutchison, J.E., Ansari, D., Zheng, S., De Jesus, S., & Lyons, I.M. (2018, April). The relation between subitizable symbolic and non-symbolic number processing over the kindergarten school-year. Oral presentation at the Mathematical Cognition and Learning Society Conference, Oxford, U.K.

Hutchison, J., Longo, F., & Phillips, D. (2018, March). Parental support of executive functioning during parent-child free play: An exploratory study. Eastern Psychological Association, Philadelphia PA, USA.

¹ Indicates co-first authors

Hutchison, J., Lyons, I.M., & Ansari, D. (2017, April). Sex Differences in basic numerical processing in elementary school children. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Austin TX, USA.

Matejko, A.M, **Hutchison, J.**, & Ansari, D. (2017, April). Developmental changes in the neural correlates of processing numerical order: an fMRI study. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Austin, TX, USA.

Clements, L., Chan, J., **Hutchison, J.**, Prager, E., Mazzocco, M., Phillips, D., & Dearing, E. (2017, April). Direction language during parent-child activities as executive function support. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Austin, TX, USA.

Hutchison, J. (2015, November). Bringing Neuroscience to the Classroom: A case for the value of mind, brain and education. Presented at the Undergraduate Awards Global Summit. Dublin, Ireland.

Hutchison, J. (2015, March). An Investigation of the Neural and Behavioral Correlates Distinguishing Numerical from Non-Numerical Ordinal Processing. Presented at the University of Western Ontario Undergraduate Poster Day.

Non-Peer Reviewed Works

Hutchison, J.E (2018). Boys and girls are equally equipped to succeed in math. Blog Post. *Psychology Today*.

Hutchison, J.E. & Phillips, D. (2018). Executive functions: Supporting foundational skills for early math learning. Blog Post. *Development and Research in Early Math Education*.

Phillips, D., Johnson, A., Weiland, C., **Hutchison, J.E.** (2017). Public preschool in a more diverse America: Implications for next-generation evaluation research. *Poverty Solutions at the University of Michigan Working Paper Series #2-17*.

Hutchison, J.E (2015). Bringing neuroscience to the classroom: A case for the value of mind, brain and education. *The Undergraduate Journal: A Collection of Winning Entries from 2015*, 7, 109-116.

Teaching Experience

Spring 2019 **Instructor**, Georgetown University Psychology Department
Course: Empirical Questions in Early Childhood Education

Fall 2018 **Teaching Fellow**, Georgetown University Psychology Department
Course: Research Methods and Statistics

Professional Affiliations

Society for Research in Child Development
American Association for the Advancement of Science

Development and Research in Early Math Education Network
The Mathematical Cognition and Learning Society
Association for Public Policy Analysis and Management

Scientific Computing Skills

Experience with STATA, SPSS, Excel, E-Prime and Brain Voyager

Languages

Fluent in English

French Bilingual Certificate