

SAMANTHA GUALTIERI

Experience

Postdoctoral Fellow, Dept. of Psychology

2019 – present

University of Toronto, Toronto, Ontario

Advisor: Amy Finn, PhD

Education

PhD, Developmental Psychology

2014 – 2019

University of Waterloo, Waterloo, Ontario

Advisor: Stephanie Denison, PhD

Dissertation: *Young Children's Ability to Integrate Social and Numerical Information: The Origins of Base-rate Neglect*

BA (Hons.), Psychology

2010 – 2014

Laurentian University, Barrie, Ontario

Publications

- Gualtieri, S.,** & Denison, S. (2020). Examining developmental change in children's information use. In S. Denison., M. Mack, Y. Xu, & B.C. Armstrong (Eds.), *Proceedings of the 42nd Annual Conference of the Cognitive Science Society* (pp. 2173-2178).
- Gualtieri, S.,** Buchsbaum, D., & Denison, S. (2020). Exploring information use in children's decision-making: Base-rate neglect and trust in testimony. *Journal of Experimental Psychology: General*, 149(8), 1527–1536. <https://doi.org/10.1037/xge0000726>
- Gualtieri, S.,** & Denison, S. (2019). A comprehensive examination of preschoolers' probabilistic reasoning abilities. In A.K. Goel, C.M. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (pp. 380-386).
- Gualtieri, S.,** & Denison, S. (2018). The development of the representativeness heuristic in young children. *Journal of Experimental Child Psychology*, 174, 60-74. <https://doi.org/10.1016/j.jecp.2018.05.006>
- Gualtieri, S.** & Denison, S. (2016). The development of heuristics in children: Base-rate neglect and representativeness. In Papafragou, A., Grodner, D., Mirman, D., & Trueswell, J.C. (Eds.) *Proceedings of the 38th Annual Conference of the Cognitive Science Society* (pp. 2117-2122).

Presentations

Talks

- Gualtieri, S.,** & Denison, S. (April, 2021). Examining development in children's social inferences. Paper presented at the biennial meeting of the Society for Research in Child Development.
- Denison, S., & **Gualtieri, S.** Probabilistic inference in infancy and early childhood. (July, 2020). Paper presented at the 42nd annual meeting of the Cognitive Science Society, Toronto, ON.

- Gualtieri, S., & Denison, S.** (July, 2019). A comprehensive examination of preschoolers' probabilistic reasoning abilities. Paper presented at the 41st Annual Conference of the Cognitive Science Society, Montréal, QB.
- Gualtieri, S., & Denison, S.** (June, 2019). Development in information integration and base rate neglect. Paper presented at the annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Waterloo, ON.
- Attisano, E., **Gualtieri, S., & Denison, S.** (March, 2019). Exploring young children's ability to integrate reliability with probability. Paper presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
- Gualtieri, S., Buchsbaum, D., & Denison, S.** (May, 2018). A bias for testimony: Children neglect base-rates in favour of witness testimony. Paper presented at the Canadian Developmental Psychology Conference, St. Catharines, ON.
- Gualtieri, S. & Denison, S.** (July, 2016). The development of heuristics in children: Base-rate neglect and representativeness. Paper presented at the 38th annual meeting of the Cognitive Science Society, Philadelphia, PA.
- Posters**
- Gualtieri, S.,** Otsubo, K., Gilboa, A., Barensse, M., & Finn, A. S. (April, 2021). When children see the world differently: Examining children's experience of visual illusions. Poster presented at the biennial meeting of the Society for Research in Child Development.
- Gualtieri, S., & Denison, S.** (July, 2020). Examining developmental change in children's information use. Poster presented at the the 42nd annual meeting of the Cognitive Science Society, Toronto, ON.
- Gualtieri, S.,** McAuley, T., & Denison, S. (March, 2019). The role of task demands and individual differences in preschooler's probabilistic reasoning. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
- Gualtieri, S., & Denison, S.** (March, 2019). Pragmatic influences on 4- and 6-year-olds' use of base-rates. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
- Gualtieri, S., & Denison, S.** (November, 2018). Examining individual differences in the development of probabilistic decision-making. Poster presented at the 59th Psychonomic Society Annual Meeting, New Orleans, LA.
- Gualtieri, S., & Denison, S.** (April, 2017). Do young children consider accuracy when integrating testimony and base-rate information? Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.
- Gualtieri, S.,** Nightingale, B. A., McAuley, T., & Denison, S. (April, 2017). Examining 3- and 4-year-olds' probabilistic reasoning abilities in a novel choice task. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.
- Gualtieri, S., & Denison, S.** (October, 2015). Exploring preschoolers' use of representativeness in a classic base-rate problem. Poster presented at the ninth biennial meeting of the Cognitive Development Society, Columbus, OH.

Gaultieri, S., Bonawitz, E., & Denison, S. (July, 2015). Do infants compare ratios or use simpler heuristics in probabilistic inference? Poster presented at the 37th annual meeting of the Cognitive Science Society, Pasadena, CA.

Non-Peer-Reviewed Talks

Gaultieri, S. (November, 2019). Exploring young children’s ability to integrate information: The origins of base-rate neglect. Presentation for the Developmental Interest Group, University of Toronto, Toronto, ON.

Gaultieri, S. (three times, 2015-2018). Presentation for the Developmental Seminar Series, University of Waterloo, Waterloo, ON.

Gaultieri, S. (September, 2016). A developmental investigation of the classic taxi-cab problem. Presentation for the Computational Cognitive Development Lab, University of Toronto, Toronto, ON.

Symposium Organizer

Heuristics and biases in young children’s social judgment and decision-making. Canadian Developmental Psychology Conference, St. Catharines, ON.

Honours and Awards

Graduate Student Travel Award Society for Research in Child Development	2019
Doctoral Thesis Completion Award University of Waterloo	2019
Student Travel Award Canadian Developmental Psychology Conference	2018
Provost Doctoral Entrance Award for Women University of Waterloo	2014
Academic Excellence Scholarship Laurentian University	2010 – 2014

Supervision

Mentoring

University of Waterloo	Co-lead self-study course on R for undergraduates and graduate students	Fall 2018
University of Waterloo	Graduate student mentor, Psychology department	2015-2018

Undergraduate Honours Thesis

Madeline Crichton	The role of executive functioning in preschoolers' probabilistic reasoning <i>Department of Psychology Honors Thesis Award</i> <i>Canadian Psychological Association Certificate of Academic Excellence</i>	2018
Emily Chan	Children's use of causal information in classic base rate neglect problems	2017

Media Coverage

"The development of the representativeness heuristic in young children"

Featured on CBC Radio Kitchener/Waterloo, and CBC Radio London

Science Daily: Younger children tend to make more informed decisions (July 19, 2018)

NeuroLogica Blog: Developing cognitive biases in young children (July 19, 2018)

PsychCentral: Younger kids may make better decisions than older ones (July 23, 2018)