

Robyn E. Wilford

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Department of Psychology | University of Toronto, St. George Campus
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Education

PhD Student	Psychology <i>Research Area:</i> Perception, Cognition, and Cognitive Neuroscience - applying Coordination Dynamics to episodic memory and event perception Department of Psychology <i>University of Toronto, ON, Canada</i>	2022 – present
BSc	Honours Specialization in Developmental Cognitive Neuroscience <i>with distinction</i> Department of Psychology <i>Western University, ON, Canada</i>	2022

Publications

Conference Proceedings

Wilford, R. E., Raja, V., Hershey, M., & Anderson, M. (2022). The Treachery of Images: Objects, Pictures, Words and the Role of Affordances in Similarity Judgements. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 44. Retrieved from <https://escholarship.org/uc/item/9sz5t2gn>

Invited Commentaries

Wilford, R., Ardila-Cifuentes, J., Baggs, E., & Anderson, M. L. (2022, commentary). The stimulus-response crisis. *The Behavioral and brain sciences*, 45, e39. <https://doi.org/10.1017/S0140525X21000285>

Manuscripts in Preparation

Ren, H., **Wilford, R. E.**, Morton, J. B., Liu (in preparation). The relationship between individual differences in shyness and neural response to valenced feedback using a stress-induction paradigm.

Poster Presentations and Talks

- 2022 **Wilford, R.** (2022, July 27-30). *The Treachery of Images: Objects, Pictures, Words and the Role of Affordances in Similarity Judgements* [Poster Presentation] The 44th Annual Meeting of the Cognitive Science Society, Toronto, ON, Canada.
- 2021 **Karen Adolph: Infant Motor Development**
Dialogue co-hosted with Juan Ardila-Cifuentes
Rotman Institute of Philosophy, Western University, ON, Canada
February 5th, 2021
- 2020 **The EMRG Lab: Ecological Psychology Meets Neuroscience.**
(with Vicente Raja, Michael Anderson, and the EMRG Lab).
Neuroscience Research Day 2020. Western University, London, ON, Canada.
February 26th-28th, 2020

Research Experience

- 2022 – present **PhD Student – *The Duncan Lab***
University of Toronto
PI: Dr. Katherine Duncan
- 2022 – present **External Member – *The Eclectic Minds Research Group (EMRG)***
Western University
PI: Dr. Michael L. Anderson
- 2021 – 2022 **Undergraduate Research Assistant; Lead Project Data Analyst – *Cognitive Development and Neuroimaging Laboratory***
Western University
PI: Dr. J. Bruce Morton
- 2019 – 2022 **Undergraduate Research Assistant – *The Eclectic Minds Research Group (EMRG)***
Western University
PI: Dr. Michael L. Anderson
- 2019 **Volunteer Research Assistant – *Infant and Child Development Lab***
Huron College (Western University)
PI: Dr. Christine Tsang

Academic Awards

- 2022 **Chancellor's Prize in Social Science Honors Program**
Faculty of Social Science, Western University, ON, Canada
- top performance in a Social Science honours program

- 2022 **Gold Medal for Psychology Honors Specialization Developmental Cognitive Neuroscience BSc**
Department of Psychology, Western University, ON, Canada
 - highest modular average of the 2022 Psychology Honours Specialization Developmental Cognitive Neuroscience (BSc) Graduates.
- 2022 **W.J. McClelland Award** – CAD \$1,600
Department of Psychology, Western University, ON, Canada
 - top undergraduate psychology honours thesis
- 2019 – 2020/
 2021 – 2022 **Deans Honours List**
Department of Psychology, Western University, ON, Canada

Scholarships and Grants

- 2022 – 2023 **Ontario Graduate Scholarship** – CAD \$15,000
Supervisor: Dr. Katherine Duncan
- 2022 **Doctoral Recruitment Award** – CAD \$7,500
Faculty of Arts and Sciences, University of Toronto, ON, Canada
- 2022 **Psychology Admission Award** – CAD \$2,500
Department of Psychology, University of Toronto, ON, Canada
- 2022 **Clark and Mary J. Wright Scholarship** – CAD \$1,000
Department of Psychology, Western University, ON, Canada
- 2021 **Natural Sciences and Engineering Research Council (NSERC) Undergraduate Student Research Award (USRA)** – CAD \$7,500
Supervisor: Dr. J. Bruce Morton
- 2020 **Mitacs Research Training Award** – CAD \$6,000
Supervisor: Dr. Michael L. Anderson

Senior Undergraduate Honours Thesis

- 2022 **Variation, Exploration, and Selective Stabilization as a Developmental Mechanism: Investigating changes in non-linear variability in the event-scale time series of infant object interactions**
Supervisor: Dr. Michael L. Anderson

Research and Analysis Skills

Research Methods

Neuroimaging Methods:

- functional magnetic resonance imaging (fMRI) – design and analysis
- structural magnetic resonance imaging (sMRI) – basic analysis
- electroencephalography (EEG) – theoretical knowledge

Behavioural Methods:

- similarity judgment methodological paradigm – design and analysis
- observational research design – design and analysis

Analysis/Statistical Methods

- General Linear Model (GLM)
- Bootstrapping methods
- Multidimensional scaling
- Agglomerative hierarchical cluster analysis
- Representational Similarity Analysis (RSA)
- Recurrence Quantification Analysis (RQA)

Programming Languages/Tools

- MATLAB
- Python (including Pytorch and Brian2 toolboxes for artificial neural network building)

Software

- Microsoft Excel
- SPSS (Statistical Package for the Social Sciences)
- SPM12 (Statistical Parametric Mapping)
- MRICron
- WFU Pickatlas

Extracurriculars

2020 – 2021

Journal Club Committee Member

Society of Neuroscience Graduate Students (SONGS)

Western University, ON, Canada

2019 – 2021

Philosophy and Cognitive Science Reading Group Member

Rotman Institute of Philosophy

Western University, ON, Canada