

Alexa Ruel

PhD Candidate in Experimental Psycholog

Concordia University, 7141 Sherbrooke St. West, H4B 1R6, QC, Canada

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Summary

- PhD Candidate in Experimental Psychology at Concordia University
- Research interests: Decision-Making Strategies, Cognitive control, Computational Modelling, Electroencephalography
- · Other interests: Science Communication, Women in STEM and Yoga

Education

Concordia University

Montreal, Canada

DOCTOR OF PHILOSOPHY IN EXPERIMENTAL PSYCHOLOGY 2018-Present

Concordia UniversityMontreal, CanadaMASTER OF ARTS, EXPERIMENTAL PSYCHOLOGY2016-2018

McGill University

Montreal, Canada
Bachelor of Arts, Psychology

2012-2016

Awards and Grants

Total value: \$87 000

Postgraduate Scholarship NSERC

IN RECOGNITION OF: DOCTORAL STUDENTS' ACADEMIC SUCCESS AND RESEARCH POTENTIAL. 2020-2023

• Value: \$63 000

Faculty of Arts and Science Graduate Fellowship

IN RECOGNITION OF: ACADEMIC SUCCESS AND RESEARCH POTENTIAL.

• Value: \$6 000

Concordia University 2016, 2017, 2018 & 2019

Publications

Ruel, A., Devine, S., Eppinger, B. (Submitted). Resource-rational approach to meta-control problems across the lifespan. *Wiley Interdisciplinary Reviews Cognitive Science*.

Ruel, A., Bolenz, F., Li, S-C., Eppinger, B. (in prep). Age differences in model-based decision-making under varying demands on the representation of state spaces.

Ruel, A., Chiarella, S.S., Crivello, C., Poulin-Dubois, D. (2020) Concurrent Validity of the Modified Checklist for Autism in Toddlers (M-CHAT): Socio-cognitive and Verbal Skills in 18-Month-Old Infants. *Journal of Autism and Developmental Disorders*, 1-17.

Poulin-Dubois, D., Hastings, P.D., Chiarella, S.S., Geangu, E., Hauf, P. **Ruel, A.**, Johnson, A. (2018). The eyes know it: Toddlers' visual scanning of sad faces is predicted by their theory of mind skills. *PLOS ONE*, 13(12), e0208524.

Burnside, K., **Ruel, A.**, Azar, N., Poulin-Dubois, D. (2017). Implicit False Belief Accross the Lifespan: Non-replication of an Anticipatory Looking Paradigm. *Cognitive Development*, 46, 4-11.

Conference Presentations

PUBLISHED ABSTRACTS

Ruel A., Bolenz, F., Li, S-C., Eppinger, B. (2019, July). Adult Age Differences in Dynamics of Model-based Decisionmaking. Poster session presented at RLDM, Montreal, QC.

CONFERENCE TALKS

Sean Devine, Cassandra Neumann, & Alexa Ruel. Life of the mind: Judgment and decision making in human ageing. Speech given at First Annual CRDH Webinar Series, Montreal, Canada, April 2020.

POSTER PRESENTATIONS

- Ruel A., Bolenz, F., Li, S-C., Eppinger, B. (2019, September). Older Adults Demonstrate Model-based Decisionmaking when Task Demands are Reduced. Poster session presented at MCC, Berlin, Germany.
- Ruel, A., Crivello, C., Chiarella, S., Burdman-Villa, J., & Poulin-Dubois, D. (2019, May). Testing the concurrent validity of the modified checklist for autism in toddlers (M-CHAT) in 18-month-olds. Poster session presented at SRCD, Baltimore, MD.
- Delisle, A., Burdman-Villa, J., Ren?, J.L., Ruel, A., & Poulin-Dubois, D. (2019, March). Qui sait quoi? L'apprentissage social selectif est lie aux competences metacognitives et a la theorie de l'esprit chez les enfants d'age prescolaire. Poster session presented at SQRP, Mont-Tremblant, QC.
- Ruel, A., Poulin-Dubois, D. (2018, May). Labels as an invitation to form categories in infancy. Poster session presented at APS Annual Convention, San Francisco, CA.
- Ruel, A., Olineck-Jolin, K., Corbit, J., & Poulin-Dubois, D. (2018, May). Infants' reactions to a social, humanoid robot. Poster session presented at Development 2018, St-Catharine's, ON.
- Ruel, A., & Poulin-Dubois, D. (2018, March). Do words facilitate the formation of categories in infancy? Poster session presented at Montreal Cognitive Science Day, Montr?al, QC.
- Poulin-Dubois, D., Olineck-Jolin, K., Corbit, J., & Ruel, A. (2017, October) Can Infants discern the Goals and Intentions of a Humanoid Robot? Poster session presented at CDS, Portland, OR.
- Ruel, A., Burnside, K., Azar, N. Poulin-Dubois, D. (2017, March). L'attribution implicite de fausses croyances: Une non-r?plication de l'?preuve de regard anticipatoire. Poster session presented at SQRP, Montreal, QC.

Research Experience

Lifespan Decision-Making Lab

Concordia University

2018-present

- · Examine the neural mechanism supporting changes in decision-making strategies across the lifespan
- Set up the EEG lab and teach undergraduate students how to use it.

Cognitive and Language Development Lab

Concordia University

MASTER'S STUDENT

2016-2018

- Examine the impact of language development on category formation in infancy
- Undergraduate Student Supervision

McGill Youth Study Team

McGill University

RESEARCH ASSISTANT

RESEARCH ASSISTANT

2014-2016

- Data Entry and Coding
- Assist in the organization of questionaire measures for administration to first nations children

Centre de Jour en Pedopsychiatrie

Universite de Montreal

Summer 2015

• Film the administration of several tasks and protocols

• Interact with parents and their children

2013-2014

RESEARCH ASSISTANT

- · Interact with parents and their infants & act in the studies.
- · Data entry and coding

Summer Schools

Virtual Summer School in Pattern Recognition in Neuroimaging

University of Vienna

ATTENDEE

· Bayesian Statistics, Calcium Imaging, Causal Inference, Deep Learning, EEG & MEG, fMRI, Machine Learning

Summer School in Social Neuroscience & Neuroeconomics

Duke University

September 2020

ATTENDEE

June 2021

• Decison making, Risk taking, Moral judgements

Extracurricular Involvements

TEACHING EXPERIENCE

Teaching Assistant

RESEARCH METHODS AND DESIGNS
Winter 2018 & 2019

- · Hold weekly classes teaching students material to complement lectures.
- Answer any questions students may have about class material & hang out and grade assignments.

Teaching Assistant

Introduction to Statistics 1 Winter 2018 & 2019

- · Hold weekly classes teaching students material to complement lectures.
- · Answer any questions students may have about class material & hang out and grade assignments.

Student Supervision

HONOURS PROJECT 2018-2019

- · Help the student with the design of their study, testing, data analysis & interpretation
- Correct and evaluate the student's thesis.

LEADERSHIP

Concordia's Cognition Day

Concordia University

STUDENT ORGANIZER

Date TBD

• Event planning, Advertisement and Day-of coordination

Brownbag Meetings on Cognition

Concordia University

COORDINATOR

2019-present

• Organize weekly meetings with faculty and graduate students interested in Cognition

Concordia's Journal of Accessible Psychology (CJAP)

Concordia University 2019-present

• Plan workshops on the topic of science communication, supervise all CJAP team members, supervise yearly online publication

Concordia's Yoga Club Concordia University

YOGA INSTRUCTOR 2019-2020

· Organize bi-weekly yoga classes for graduate and undergraduate students

REVIEWER EXPERIENCE

FOUNDER & EDITOR-IN-CHIEF

Journal of Trial and Error

January 2020

Biological Psychiatry

January 2020

Nature Communications

January 2020

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Cognitive and Affective Behavioral Neuroscience

July 2019

Plos ONE

February 2019

Developmental Science

September 2020