

McGill University, 2001 McGill College, H3A 1G1, QC, Canada

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Summary_

- PhD Student at McGill University
- Research interests: Cognitive effort, real-world decision-making, computational modelling
- · Other interests: Meta-science, deep learning

Education

 McGill University
 Montreal, Canada

 Doctor of Philosophy in Experimental Psychology
 2020-Present

Concordia University

Montreal, Canada

MASTER OF EXPERIMENTAL PSYCHOLOGY 2020

Concordia University Montreal, Canada

BACHELOR OF PSYCHOLOGY 2018

Awards and Grants

Total value: \$207 050

Student Ambassador Award NSERC

IN RECOGNITION OF: FUNDING FOR COMMUNITY OUTREACH PROJECT TO PROMOTE SCIENCE AMONG UNDEREPRESENTED

2021

• Value: \$1 000

Postgraduate Scholarship-Doctoral NSERC

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

• Value: \$63 000

Graduate Excellence Award

McGill University

IN RECOGNITION OF: ACADEMIC EXCELLENCE AT THE GRADUATE LEVEL.

• Value: \$2 550

Bourses de Doctorat en Recherche

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

• Value: \$84 000

Canada Graduate Scholarship-Master's Program SSHRC

IN RECOGNITION OF: NEW MASTER'S STUDENTS' ACADEMIC SUCCESS AND RESEARCH POTENTIAL.

• Value: \$17 500

Bourses de Maîtrise en Recherche

IN RECOGNITION OF: NEW MASTERS' STUDENTS' ACADEMIC SUCCESS AND RESEARCH POTENTIAL.

• Value: \$17 500 [declined]

Graduate Special Entrance Award

Concordia University

2019

2018

In Recognition Of: Incoming Masters' students entering the program with federal or provincial funding.

Value: \$6 000

Undergraduate Research Award NSERC

IN RECOGNITION OF: STUDENTS' ACADEMIC SUCCESS AND RESEARCH POTENTIAL.

• Value: \$7 125 (+ 2000 FRQNT supplement)

Undergraduate Research Award Concordia University

In Recognition Of: Students' Academic success and research potential.

• Value: \$5 625

Arts and Science Scholar Concordia University

IN RECOGNITION OF: STUDENTS WITH A GPA IN THE TOP 1% OF THEIR DEPARTMENT.

Value: NA

Dr. Alex Vincent Scholarship in Psychology

Concordia University

2016, 2017, & 2018

In Recognition Of: Psychology students' academic excellence and commitment to the field.

2018

Value: \$750

Research Experience

Otto Lab McGill University

PHD STUDENT 2020

- Conceived of, designed multiple experiments and real-world data analysis projects.
- Assisted other lab members in the design of their studies.

Lifespan Decision-Making Lab

Concordia University

MASTER'S STUDENT 2019-2020

- Conceived of, executed, and analyzed data for a Master's research project and two subsequent follow-up projects.
- Provided technical and statistical assistance to other graduate students and lab members in R, Python, and MATLAB.

Lifespan Decision-Making Lab

Concordia University

2018-2019

- Coordinated four ongoing research projects related to decision-making across the lifespan.
- Compiled and submitted a manuscript to a peer-reviewed journal and presented results at international conferences.

Articles

UNDER REVIEW

RESEARCH COORDINATOR

Devine, S., Vassena, E., & Otto, A. R. (2022). More than a Feeling: Physiological Measures of Affect Index the Integration of Effort Costs and Rewards During Effortful Decision-Making. *Psychological Science*. https://doi.org/10.31234/osf.io/nmwya

Devine, S., Otto, A. R., Uanhoro, J. O., & Flake, J. K (under review). A Tutorial for Quantifying Within- and Between-Participant Variance in Multilevel Logistic Models. *Advances in Methods and Practices in Psychological Science*. https://doi.org/10.31234/osf.io/v68wb

2022

Otto A.R., **Devine, S.**, Bornstein, A.M., & Louie, K. (2022). Context-dependent choice and evaluation in real-world consumer behavior. *Scientific Reports*, *12*, 17744.

Devine, S., Neumann, C., Levari, D., Wilson, R., Eppinger, B. (2022). Human Ageing is Associated with More Rigid Concept Spaces. *Psychonomic, Bulletin, & Review*. https://doi.org/10.3758/s13423-022-02197-8.

Devine, S., Germain, N., Ehrlich, S., & Eppinger, B. (2022). Changes in the Prevalence of Thin Bodies Bias Young Women's Judgments About Body Size. *Psychological Science*, 33(8), 1212-1225. https://doi.org/10.1177/09567976221082941

Devine, S., & Otto, A. R. (2022). Information about task progress modulates cognitive demand avoidance. *Cognition*, 225, 105107. https://doi.org/10.1016/j.cognition.2022.105107

2021

Devine, S., Neumann, C., Otto, A. R., Bolenz, F., Reiter, A., Eppinger, B. (2021). Lifespan Age Differences in the Effects of the Opportunity Cost of Time on Cognitive Control. *Cognition*, *216*, 104863. https://doi.org/10.1016/j.cognition.2021.104863.

Ruel, A., **Devine, S.**, & Eppinger, B. (2021). Resource-rational approach to meta-control problems across the lifespan. *Wiley Interdisciplinary Reviews: Cognitive Science, 12*(5), e1556. https://doi.org/10.1002/wcs.1556

Conference Presentations

CONFERENCE PROCEEDINGS AND PUBLISHED ABSTRACTS

- **Sean Devine** & A. Ross Otto. Making Progress on the Effort Paradox: Information about task progress modulates cognitive demand avoidance. (2021). In *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society*.
- **Sean Devine**, Cassandra Neumann, David E. Levari, Robert Wilson, & Ben Eppinger. (2020). Prevalence-induced concept change in older adults. In *Proceedings of the 42nd Annual Meeting of the Cognitive Science Society*. Montreal, CA. [Contributed Talk].
- **Sean Devine**, Cassandra Neumann, David E. Levari, Robert Wilson, & Ben Eppinger. (2020). Prevalence-induced concept change in older adults. Accepted at *Cognitive Ageing 2020*, Atlanta, Georgia, USA.
- **Sean Devine**, Florian Bolenz, Joni Shuchat, Ross Otto, & Andrea Reiter. Ageing-related changes in the effects of opportunity costs on cognitive effort (2019). In *The Multidisciplinary Conference on Reinforcement Learning and Decision Making 2019*. Montreal, QC, Canada.
- Ben Eppinger, **Sean Devine**, Florian Bolenz, Joni Shuchat, Ross Otto, & Andrea Reiter. Ageing-related changes in the effects of opportunity costs on cognitive effort. Accepted at *FENS2018*, Berlin, Germany, July 2018.

POSTER PRESENTATIONS

- **Sean Devine**, Mathieu Roy, Ulrik Beierholm, A. Ross Otto. Proximity to Appetitive and Aversive Goals Jointly Determines Parameters of Effortful Control Exertion. Presented at the *3rd Workshop on Mental Effort*. Providence, RI, USA, 2022.
- **Sean Devine**, Anya Skatova, James Goulding, A. Ross Otto. Decoy Effects in a Massive Real-World Retail Dataset. Presented at *The Society for Judgment and Decision Making Annual Meeting 2022*. San Deigo, CA, USA, 2022.
- **Sean Devine**, Eliana Vasenna, Emma Kiedyk, A. Ross Otto. Physiological Measures of Affective Valence and Arousal Index Effort Costs During Decision-Making. Presented at *The Multi-disciplinary Conference on Reinforcement Learning and Decision Making 2022*. Providence, RI, USA, 2022.
- Alexa Nordine, **Sean Devine**, Emma Kiedyk, A. Ross Otto. Physiological Measurements of Emotion in Risky Decision-Making: Examining EMG and SCR Responses to Choice Outcome. Presented at *CPA's 83rd Annual National Convention*. Calgary, AB, Canada, 2022.
- A. Ross Otto, **Sean Devine**, Aaron M. Bornstein, & Kenway Louie. Context-dependent choice and evaluation in real-world consumer behavior. Presented at the *Society for Neuroeconomics Annual Meeting 2021*. Online, 2021.
- **Sean Devine** & A. Ross Otto. Making Progress on the Effort Paradox: Information about task progress modulates cognitive demand avoidance. Presented at *CogSci2021*, Montreal, Canada, 2021.
- **Sean Devine**, Nathalie Germaine, Stefan Erhlich, & Ben Eppinger. Changes in The Prevalence Of Thin Bodies Biases Young Women's Judgements about Body Size. Presented at *Canadian Society for Brain*, *Behaviour and Cognitive Science: Annual Meeting 2021*, Montreal, Canada, 2021.
- **Sean Devine** & A. Ross Otto. Making Progress on the Effor&t Paradox: Information about task progress modulates cognitive demand avoidance. Presented at *Canadian Society for Brain, Behaviour and Cognitive Science: Annual Meeting 2021*, Montreal, Canada, 2021.
- **Sean Devine**, Cassandra Neumann, David E. Levari, Robert Wilson, & Ben Eppinger. Prevalence-induced concept change in older adults. Accepted at *Cognitive Ageing 2020*, Atlanta, Georgia, USA, 2020.
- **Sean Devine**, Cassandra Neumann, David E. Levari, Robert Wilson, & Ben Eppinger. Prevalence-induced Concept Change in Older Adults. Presented at the Annual *CRDH Conference 2020*, Montreal, Canada, January, 2020.
- **Sean Devine**, Florian Bolenz, Joni Shuchat, Ross Otto, & Andrea Reiter. Ageing-related changes in the effects of opportunity costs on cognitive effort. Presented at *RLDM2019*, Montreal, Canada, July 2019.
- **Sean Devine**, Florian Bolenz, Joni Shuchat, Ross Otto, & Andrea Reiter. Ageing-related changes in the effects of opportunity costs on cognitive effort. Presented at the Annual *CRDH conference 2020*, Montreal, Canada, February

2019. Winner of the best undergraduate poster presentation award (value: \$100).

Sean Devine, Florian Bolenz, Joni Shuchat, Ross Otto, & Andrea Reiter. Ageing- related changes in the effects of opportunity costs on cognitive effort Presented at the *6th FLUX Conference*, Berlin, Germany, August 2018.

Ben Eppinger, **Sean Devine**, Florian Bolenz, Joni Shuchat, Ross Otto, & Andrea Reiter. Ageing-related changes in the effects of opportunity costs on cognitive effort. Presented at the *11th FENS (Forum of Neuroscience)*, Berlin, Germany, August 2018.

CONFERENCE TALKS

Sean Devine, Mathieu Roy, Ulrik Beierholm, A. Ross Otto. Proximity to Appetitive and Aversive Goals Jointly Determines Parameters of Effortful Control Exertion. Presented at *Society for Neuroscience Meeting 2022*. San Diego, CA, USA, 2022.

Sean Devine, A. Ross Otto, Aaron M. Bornstein, & Kenway Louie. Context-dependent choice and evaluation in real-world consumer behavior. Talk given at *Math Psych 2021*, online. July 2021.

Sean Devine, Cassandra Neumann, David E. Levari, Robert Wilson, & Ben Eppinger. Prevalence-induced concept change in older adults. Speech given at *CogSci2020*, Toronto, Canada, July 2020. [Online due to COVID].

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.

Led Workshops

Introduction to Bayesian Statistics

CONCORDIA March 2022

Maximum Likelihood Estimation in R

Concordia and McGill October 2021

Multilevel Modeling: Basic and Advanced Topics

Concordia, McGill, and TU Dresden

June-July 2021

Programming Experiments Online Using jsPsych

Concordia University & TU Dresden, [ONLINE]

April 2020

Python for Psychologists

CONCORDIA UNIVERSITY, [ONLINE]

April 2020

Getting Involved in Research for Psychology

Concordia University, Montreal, Canada February 2020

Designing Psychological Experiments Using PsychoPy

Concordia University, Montreal Canada October 2019

Leadership

Journal of Trial and Error

EDITOR OF PSYCHOLOGY 2019-Present

- Edit for an international journal that aims to close the gap between what is research and what is published by highlighting important scientific
 failures.
- Write and contribute to editorials on the role of failure in psychological science.

MAPS Committee at Concordia

Senior Officer 2019-2020

- · Senior organizer for a Concordia student committee that transmits knowledge from gragudate to undergraduate students.
- Presented numerous workshops (see 'Workshops')

Concordia Journal of Accessible Psychology

EDITOR 2019-2020

Review and edit submissions to a student-run journal that aims to promote easily accessible psychological research from Concordia University
to the public.

· Promote the journal internally within Concordia University

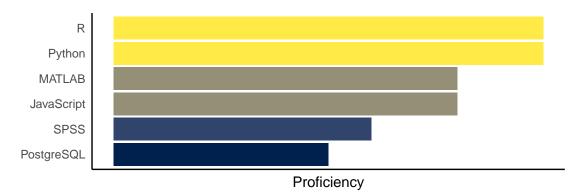
Science of Learning Symposium, Berlin, Germany

ASSISTANT-ORGANIZER 2018

- Assisted in planning and organization of an international symposium on recent neuroscientific, developmental, and social advancements in learning science.
- Helped compile a post-symposium synopsis.

Other Professional Skills

PROGRAMMING LANGUAGES



Other Work and Extracurricular Experience

TA Positions

Introduction to Statistics

McGILL UNIVERSITY 2021

Introduction to Statistics

introduction to Statistics

McGill University 2020

Statistical Analysis I

CONCORDIA UNIVERSITY 2020

EDITORIAL ACTIVITIES — REVIEWER

Cognition 2022

Royal Society for Open Science

2022

Advances in Cognitive Science

Cognitive, Affective, & Behavioural Neuroscience

Additional Training

Deep Learning Summer School

Neuromatch Academy 2021

2022