



Sean Devine

PHD STUDENT

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

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Summary

- PhD Student at McGill University
- Research interests: Cognitive effort, decision-making, concepts, computational modelling
- Other interests: Meta-science, failure in sciences

Education

McGill University

DOCTOR OF PHILOSOPHY IN EXPERIMENTAL PSYCHOLOGY

Montreal, Canada

2020-Present

Concordia University

MASTER OF EXPERIMENTAL PSYCHOLOGY

Montreal, Canada

2020

Concordia University

BACHELOR OF PSYCHOLOGY

Montreal, Canada

2018

Awards and Grants

Total value: \$143 050

Graduate Excellence Award

IN RECOGNITION OF: ACADEMIC EXCELLENCE AT THE GRADUATE LEVEL.

- Value: \$2 550

McGill University

2020

Bourses de Doctorat en Recherche

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

- Value: \$84 000

FRQNT

2020

Canada Graduate Scholarship-Master's Program

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

- Value: \$17 500

SSHRC

2019

Bourses de Maîtrise en Recherche

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

- Value: \$17 500 [declined]

FRQNT

2019

Graduate Special Entrance Award

IN RECOGNITION OF: INCOMING MASTERS' STUDENTS ENTERING THE PROGRAM WITH FEDERAL OR PROVINCIAL FUNDING.

- Value: \$6 000

Concordia University

2019

Undergraduate Research Award

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

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

NSERC

2018

Undergraduate Research Award

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

- Value: \$5 625

Concordia University

2017

Arts and Science Scholar

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

- Value: NA

Concordia University

2016, 2017, & 2018

Dr. Alex Vincent Scholarship in Psychology

IN RECOGNITION OF: PSYCHOLOGY STUDENTS' ACADEMIC EXCELLENCE AND COMMITMENT TO THE FIELD.

- Value: \$750

Concordia University

2018

Journal Articles

- Ruel, A., **Devine, S.**, Eppinger, B. (2021). Resource-rational approach to meta-control problems across the lifespan. *Wiley Interdiscip Rev Cogn Sci*. doi: 10.1002/wcs.1556.
- Devine, S.** & Otto A.R. (in prep). Making Progress on The Effort Paradox: Does Perceived Progress Moderate Avoidance of Cognitively Demanding Activities? Preregistration at <https://osf.io/gfrsh>
- Devine, S.**, Neumann, C., Levari, D., Wilson, R., Eppinger, B. (Under review). Human Ageing is Associated with More Rigid Concept Spaces. *eLife*. <https://psyarxiv.com/uhcp7/>
- Devine, S.**, Elrich, S., & Eppinger, B. (in prep). Does prevalence-induced concept change affect body image in young women? Registered Report. <https://osf.io/e28nd>
- Devine, S.**, Neumann, C., Otto, A. R., Bolenz, F., Reiter, A., Eppinger, B. (Under Review). Lifespan Age Differences in the Effects of the Opportunity Cost of Time on Cognitive Control. *DCognition*. <https://psyarxiv.com/9m6au/>

Conference Presentations

CONFERENCE PROCEEDINGS AND PUBLISHED ABSTRACTS

- 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. Prevalence-induced concept change in older adults. Accepted at *Cognitive Ageing 2020*, Atlanta, Georgia, USA, 2020.
- Sean Devine**, Florian Bolenz, Joni Shuchat, Ross Otto, & Andrea Reiter. Ageing-related changes in the effects of opportunity costs on cognitive effort. Accepted at *RLDM2019*, Montreal, Canada, July, 2019.
- 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**, 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, 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.

Sean Devine. The prosocial effects of oxytocin on social cognition in a naturalistic setting. Speech given at *PURE (Psychology Undergraduate Research Exposition)*, Montreal, Canada, April 2018.

Research Experience

Otto Lab

McGill University

PHD STUDENT

2020

- Conceived of, designed, and conducted a large-scale, preregistered, online study.
- 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

RESEARCH COORDINATOR

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.

Ellenbogen Developmental Psychopathology and Stress Lab

Concordia University

HONOURS STUDENT AND RESEARCH ASSISTANT

2016-2018

- Directed a team of students to acquire data and presented findings for a pilot study at a regional conference.
- Completed a year-long thesis project.

Led Workshops

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 graduate 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

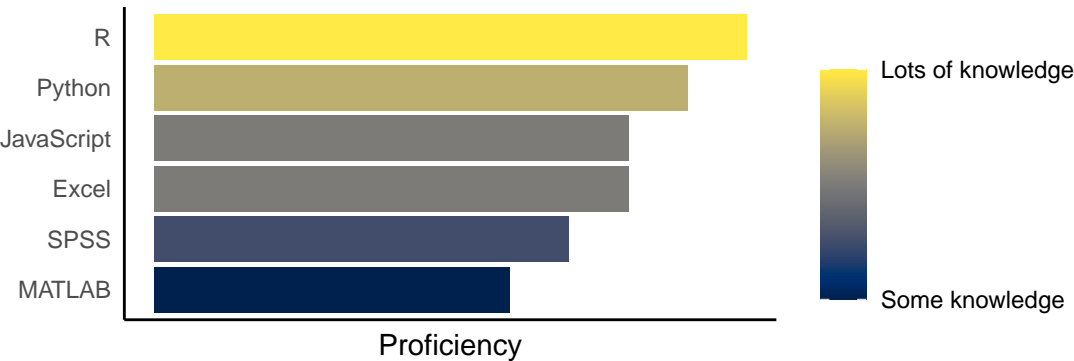
ASSISTANT-ORGANIZER

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

2020

Statistical Analysis I

CONCORDIA UNIVERSITY

2020

EDITORIAL ACTIVITIES — REVIEWER

Cognitive, Affective, & Behavioural Neuroscience

2020

- Fröber & Dreisbach. How Sequentially Changing Reward Prospect Modulates Meta-control: Increasing Reward Prospect Promotes Cognitive Flexibility