

# Sean Devine

BEHAVIOURAL SCIENTIST

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Fully Bilingual: English, French

## Summary

Cognitive Scientist (PhD McGill University) and Behavioural Science Fellow at Impact Canada.

## Education

<b>McGill University</b> Ph.D. In Experimental Psychology (Cognitive Science)	Montreal, Canada 2020-2024
<b>Concordia University</b> Master Of Experimental Psychology	Montreal, Canada 2020
<b>Concordia University</b> Bachelor Of Psychology	Montreal, Canada 2018

## Experience

<b>Behavioural Science Fellow</b> <ul style="list-style-type: none"><li>- Developed behavioural science-supported solutions to public health issues facing Canadian citizens</li><li>- Worked closely with the Public Health Agency of Canada to design, test, and implement an intervention aimed at promoting healthy behaviours among Canadians.</li><li>- Consulted on statistics and research-method based training across departments.</li></ul>	Impact Canada Impact and Innovation Unit & Public Health Agency of Canada 2024-Present
<b>Behavioural Scientist</b> Internship <ul style="list-style-type: none"><li>- Developed behavioural interventions to solve both client-facing and employee business problems</li><li>- Leveraged AI (PyTorch, XGBOOST) models for topic modeling, risk prediction, and sentiment analysis</li><li>- Analyzed large data sources to simulate business path success likelihood</li><li>- Designed scientific experiments to test new products and ideas</li><li>- Introduced new statistical techniques (e.g., Bayesian analysis) into industry</li><li>- Developed new analysis pipelines and integrated with existing dashboards (PowerBI)</li></ul>	IntactLab (Intact Insurance) 2023-2024
<b>Otto Lab</b> Ph.D. Student (supervisor: Dr. Ross Otto) <ul style="list-style-type: none"><li>- Designed numerous experiments, using Python, JavaScript, and MATLAB (including backend with SQL and PostgreSQL)</li><li>- Analyzed experimental and large-scale consumer data</li><li>- Fit computational and deep learning models to empirical data</li><li>- Published results in high-impact, peer-reviewed, journals</li><li>- Presented results at multiples international conferences</li><li>- Led multiple workshops, teaching colleagues and students advanced statistical techniques</li></ul>	McGill University 2020-2024
<b>Lifespan Decision-Making Lab</b> Masters Student and Research Coordinator (supervisor: Dr. Ross Otto) <ul style="list-style-type: none"><li>- Designed numerous experiments, using Python, JavaScript, and MATLAB</li><li>- Analyzed experimental data, resulting in the completion of a master's thesis and defence</li><li>- Fit computational models to empirical data</li><li>- Published results in high-impact, peer-reviewed, journals</li><li>- Presented results at multiples international conferences</li><li>- Digitized pre-existing paper-and-pencil experiments, implementing open science best practices</li></ul>	Concordia University 2018-2020

## Other Work and Extracurricular Experience

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### *Teaching Assistantships*

<b>Introduction to Statistics</b> McGill University	2020-2022
<b>Statistics for Experimental Design</b> McGill University	2021
<b>Statistical Analysis I</b> Concordia University	2020

### *Editorial Activities—Reviewer*

I have reviewed articles for the following journals: Perspectives in Psychological Science, Cognitive, Affective, & Behavioural Neuroscience, Cognition, Royal Society for Open Science, Advances in Cognitive Science, and the Journal of Trial and Error.

### *Additional Training*

<b>Deep Learning Certification</b> Neuromatch Academy	2021
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## Leadership

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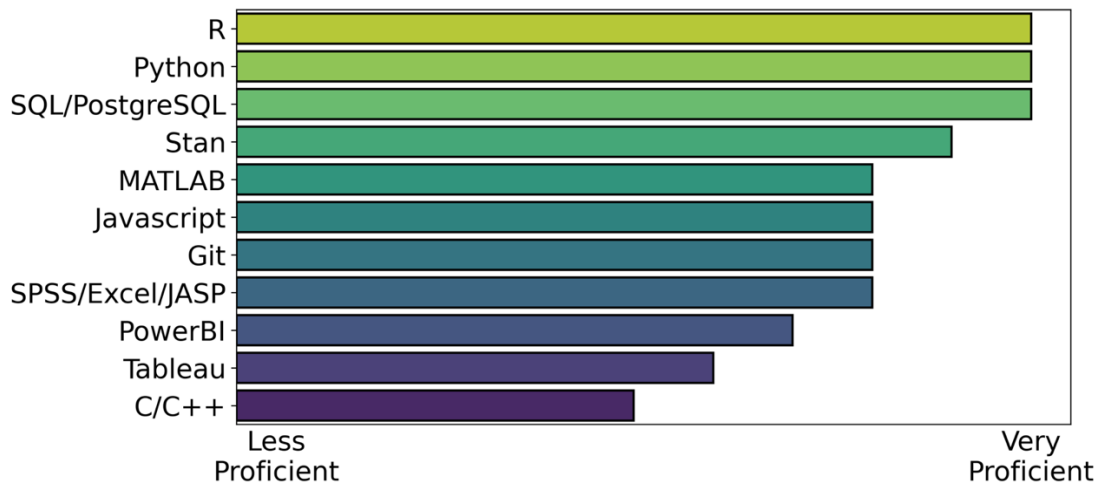
### *Led Workshops*

<b>Introduction to Hierarchical Drift Diffusion Modeling</b> Rabound University	Feb 2024
<b>Introduction to Reinforcement Learning</b> Rabound University	Feb 2024
<b>Bayesian Statistics for A/B Tests</b> IntactLab	Jan 2024
<b>Introduction to Bayesian Statistics</b> IntactLab	June 2023
<b>Introduction to Data Science [Series]</b> McGill University	Nov-Dec 2022
<b>Introduction to Bayesian Statistics</b> Concordia University   <a href="https://shorturl.at/dfsR6">shorturl.at/dfsR6</a>	March 2022
<b>Maximum Likelihood Estimation in R</b> Concordia and McGill Universities   <a href="https://github.com/seandamiandevine/MLEWorkshop">https://github.com/seandamiandevine/MLEWorkshop</a>	October 2022
<b>Multilevel Modeling: Basic and Advanced Topics</b> Concordia and McGill Universities   <a href="https://github.com/seandamiandevine/MLMTutorial_2021">https://github.com/seandamiandevine/MLMTutorial_2021</a>	June-July 2021
<b>Programming Experiments Online</b> Concordia, McGill, and TU Dresden Universities	April 2022
<b>Python for Psychologists</b> Concordia University	April 2020

## Professional Skills

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### Programming Languages



## Articles and Conferences

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I have authored numerous research articles in internationally-recognized peer-reviewed journals and presented at many international conferences. Here is a short list of recently published articles, which I think highlight some of my competencies in data science and science communication. To see the full list, see

[https://seandevine.org/homepage\\_files/cv\\_long.pdf](https://seandevine.org/homepage_files/cv_long.pdf).

- 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>
- 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. <https://www.nature.com/articles/s41598-022-22416-5>
- 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>