## Sean Devine

BEHAVIOURAL DATA SCIENTIST
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## Summary

Cognitive Scientist (PhD McGill University) and Behavioural Scientist

## Education

| McGill University <br> Ph.D. In Experimental Psychology (Cognitive Science) | Montreal, Canada 2020-2024 |
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| Concordia University <br> Master Of Experimental Psychology | Montreal, Canada 2020 |
| Concordia University <br> Bachelor Of Psychology | Montreal, Canada 2018 |
| Experience |  |
| Behavioural Scientist <br> Internship <br> - Developed behavioural interventions to solve both client-facing and employee business problems <br> - Leveraged AI (PyTorch, XGBOOST) models for topic modeling, risk prediction, and sentiment analysis <br> - Analyzed large data sources to simulate business path success likelihood <br> - Designed scientific experiments to test new products and ideas <br> - Introduced new statistical techniques (e.g., Bayesian analysis) into industry <br> - Developed new analysis pipelines and integrated with existing dashboards (PowerBI) | IntactLab (Intact Insurance) $2023-2024$ |
| Otto Lab <br> Ph.D. Student (supervisor: Dr. Ross Otto) <br> - Designed numerous experiments, using Python, JavaScript, and MATLAB (including backend with SQL and PostgreSQL) <br> - Analyzed experimental and large-scale consumer data <br> - Fit computational and deep learning models to empirical data <br> - Published results in high-impact, peer-reviewed, journals <br> - Presented results at multiples international conferences <br> - Led multiple workshops, teaching colleagues and students advanced statistical techniques | McGill University 2020-2024 |
| Lifespan Decision-Making Lab <br> Masters Student and Research Coordinator (supervisor: Dr. Ross Otto) <br> - Designed numerous experiments, using Python, JavaScript, and MATLAB <br> - Analyzed experimental data, resulting in the completion of a master's thesis and defence <br> - Fit computational models to empirical data <br> - Published results in high-impact, peer-reviewed, journals <br> - Presented results at multiples international conferences <br> - Digitized pre-existing paper-and-pencil experiments, implementing open science best practices | Concordia University 2018-2020 |

## Other Work and Extracurricular Experience

## Teaching Assistantships

Introduction to Statistics
McGill University
Statistics for Experimental Design
McGill University
Statistical Analysis I
Concordia University

## 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.

## Leadership

## Led Workshops

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

## Professional Skills

Programming Languages


## Articles and Conferences

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.

[^0]
[^0]:    - 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

