Sean Devine

BEHAVIOURAL DATA SCIENTIST

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

P: +1 819 319 1564 | email: seandamiandevine@gmail.com | web: seandevine.org | github: seandamiandevine Fully Bilingual: English, French

Summary_

PhD Student in Cognitive Science at McGill University and Behavioural Scientist at Intact Insurance

Education

McGill University Montreal, Canada 2020-2024 Ph.D. In Experimental Psychology (Cognitive Science)

Montreal, Canada Concordia University Master Of Experimental Psychology

Concordia University Montreal, Canada Bachelor Of Psychology

Experience.

IntactLab **Behavioural Scientist** Internship (Intact Insurance)

- Developed behavioural interventions to solve both client-facing and employee business problems 2023-Present

- Leveraged AI (PyTorch, XGBOOST) models for topic modeling, risk prediction, and sentiment analysis

- Analyzed large data sources to simulate business path success likelihood

- Designed scientific experiments to test new products and ideas

- Introduced new statistical techniques (e.g., Bayesian analysis) into industry

- Developed new analysis pipelines and integrated with existing dashboards (PowerBI)

McGill University Otto Lab 2020-Present

Ph.D. Student (supervisor: Dr. Ross Otto)

- Designed numerous experiments, using Python, JavaScript, and MATLAB (including backend with SQL and PostgreSQL)

- Analyzed experimental and large-scale consumer data
- Fit computational and deep learning models to empirical data
- Published results in high-impact, peer-reviewed, journals
- Presented results at multiples international conferences
- Led multiple workshops, teaching colleagues and students advanced statistical techniques

Lifespan Decision-Making Lab

Masters Student and Research Coordinator (supervisor: Dr. Ross Otto) 2018-2020

Concordia University

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- Designed numerous experiments, using Python, JavaScript, and MATLAB
- Analyzed experimental data, resulting in the completion of a master's thesis and defence
- Fit computational models to empirical data
- Published results in high-impact, peer-reviewed, journals
- Presented results at multiples international conferences
- Digitized pre-existing paper-and-pencil experiments, implementing open science best practices

Other Work and Extracurricular Experience

Teaching Assistantships

2020-2022 Introduction to Statistics

McGill University

2021 Statistics for Experimental Design

McGill University

2020 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.

SEAN DEVINE · CURRICULUM VITAE FEB 2024

April 2020

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Deep Learning Certification

Neuromatch Academy

Leadership

Led Workshops

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

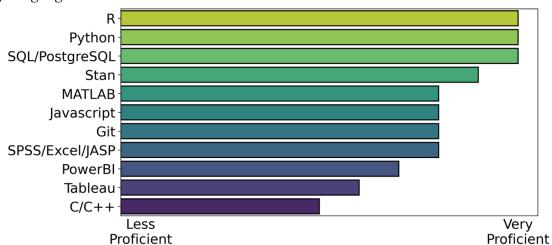
Professional Skills

Python for Psychologists

Concordia University

Concordia, McGill, and TU Dresden Universities

Programming Languages



Articles and Conferences_

FEB 2024

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.

- 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