Sean Devine

PHD CANDIDATE

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Fully Bilingual: English, French

Summary

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

Education

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

Experience

Behavioural Scientist — IntactLab
Internship — (Intact Insurance) — 2023-Present

- Assisted in the development of behavioural interventions to improve profitability
- Leveraged AI models for client profiling, risk assessment, and sentiment analysis
- Analyzed data to test intervention efficacy
- Designed A-B tests
- Led workshops to improve statistical knowledge in industry

Otto Lab — McGill University
Ph.D. Student (supervisor: Dr. Ross Otto) — 2020-Present

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

- 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

Introduction to Statistics	2020-2022
McGill University	
Statistics for Experimental Design	*2021*
McGill University	
Statistical Analysis I	*2020*
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.
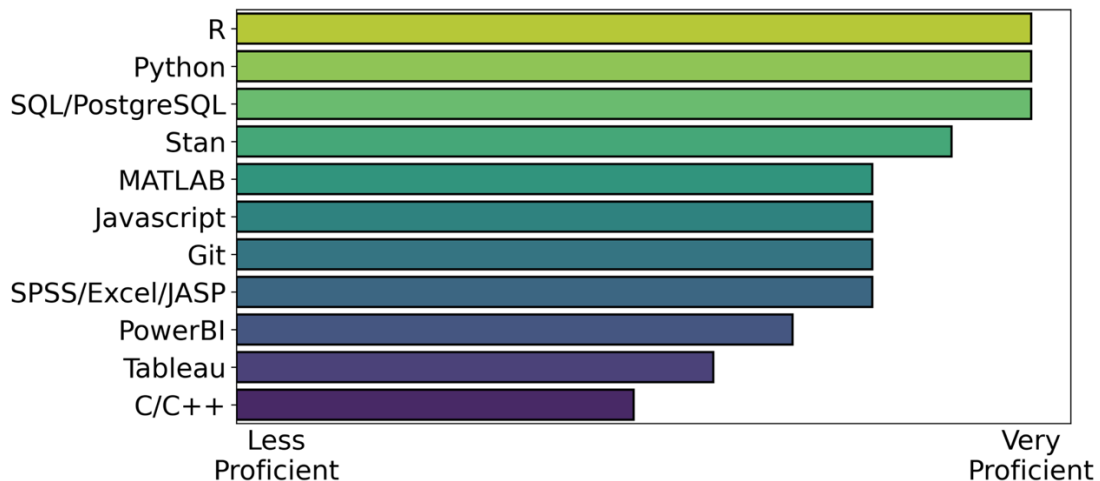
Additional Training

Deep Learning Certification   2021
Neuromatch Academy

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 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.

- 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