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
2020-2024
Ph.D. In Experimental Psychology (Cognitive Science)

Concordia University
Montreal, Canada
2020
Master Of Experimental Psychology

Concordia University
Montreal, Canada
2018
Bachelor Of Psychology

Experience

Behavioural Scientist
IntactLab
(Intact Insurance)
2023-Present
Internship

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

- 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.
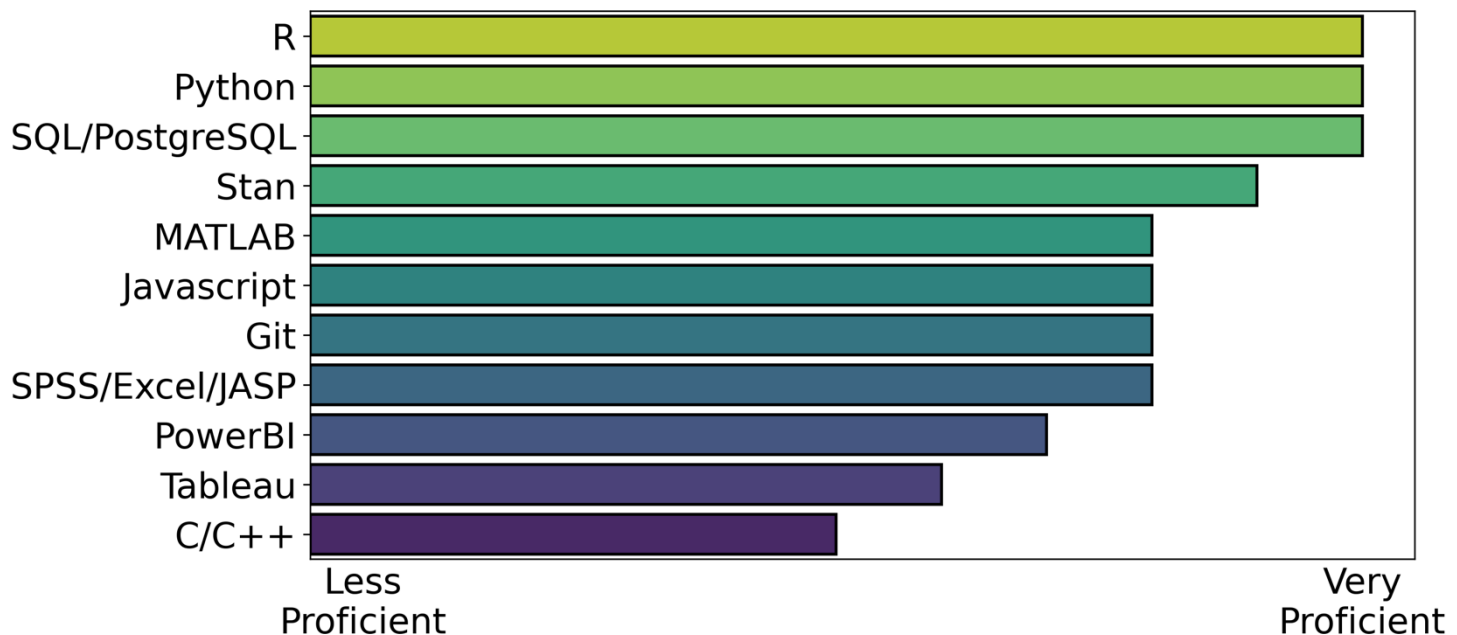
Additional Training

Deep Learning Certification   2021
Neuromatch Academy

Leadership

Led Workshops

Introduction to Data Science   November 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

Experimental Programming 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., Neumann, C., Levari, D., Wilson, R., Eppinger, B. (2022). Human Ageing is Associated with More Rigid Concept Spaces. *Psychonomic, Bulletin, & Review*. https://doi.org/10.3758/s13423-022-02197-8.
- 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