Sean Devine

PHD STUDENT

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

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Summary

PhD Student at McGill University

Research interests: Cognitive effort, real-world decision-making (Big Data), statistical modelling

Education

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

Concordia University — Montreal, Canada
Master Of Experimental Psychology — 2020

Concordia University — Montreal, Canada
Bachelor Of Psychology — 2018

Experience

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

- Designed numerous experiments, using Python, JavaScript, and MATLAB (including backend with SQL and Postgres)
- 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 Summer School — 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

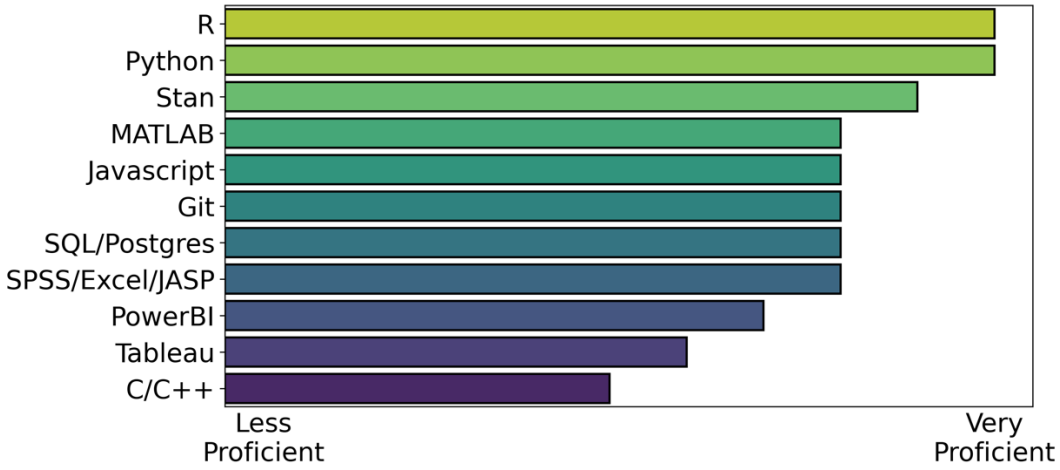
Programming Experiments Online April 2022
Concordia, McGill, and TU Dresden Universities

Python for Psychologists April 2020
Concordia University

Getting Involved in Research February 2020
Concordia University

Professional Skills

Programming Languages



Articles and Conferences

I have authored numerous research articles in 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.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