

MAIREAD SHAW

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EDUCATION

Ph.D. Quantitative Psychology

September 2020 – Present

Supervisor: Dr. Jessica Flake
McGill University, Montreal, QC

Bachelor of Science in Psychology, with distinction

May 2019

McGill University, Montreal, QC

SCHOLARLY WORKS

Articles

Shaw, M., Rights, J.D., Sterba, S.K., & Flake, J.K. (2022). r2mlm: An R package for computing effect sizes in multilevel models. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-022-01841-4>

Sun, S., **Shaw, M.**, Moodie, E., Ruths, D. (2022). The epidemiological impact of the Canadian COVID Alert App. *Canadian Journal of Public Health*, 113, 519-527. <https://doi.org/10.17269/s41997-022-00632-w>

Flake, J. K., Luong, R., & **Shaw, M.** (2022). [Addressing a crisis of generalizability with large-scale construct validation](https://doi.org/10.1017/S0140525X21000376). *Behavioral and Brain Sciences*, 45, e14. <https://doi.org/10.1017/S0140525X21000376>

Shaw, M., Cloos, L.J.R., Luong, R., Elbaz, S., & Flake, J.K. (2020). [Measurement practices in large-scale replications: Insights from Many Labs 2](http://dx.doi.org/10.1037/cap0000220). *Canadian Psychology/Psychologie canadienne*, 61(4), 289-298. <http://dx.doi.org/10.1037/cap0000220>

OSF materials: <https://osf.io/v4wth/>

Teaching Resources

Shaw, M. & Flake, J.K. (2023). Multilevel Measurement Models [Digital ITEMS Module 34]. *Educational Measurement: Issues and Practice*.

Shaw, M. & Flake, J.K. *Introduction to Multilevel Modelling*, 2022. www.learn-mlms.com

Software

Shaw, M., Rights, J.D., Sterba, S.K., & Flake, J.K. (2020). r2mlm: R-Squared Measures for Multilevel Models. R package version 0.3.5. <https://CRAN.R-project.org/package=r2mlm>

Workshops

Shaw, M. (2023, March). *Effect Sizes in Multilevel Models* [Workshop]. Quantitative Psychology Methodologies Workshop, Montreal, QC, Canada.

Shaw, M., & Flake, J.K. (2022, June). *Understanding, calculating, and interpreting R-squared in multilevel models* [Conference workshop]. Canadian Psychological Association Conference, Calgary, AB, Canada.

Shaw, M. (2022, March). *Understanding, calculating, and interpreting R-squared in multilevel models* [Workshop]. McGill University Daily Diary Research Methods Group, Montreal, QC, Canada.

Poster Presentations

Shaw, M., & Flake, J.K. (2022, July). *Understanding, calculating, and interpreting R-squared effect size measures in multilevel models* [Poster session]. International Meeting of the Psychometric Society, Bologna, Italy.

Shaw, M., & Elgar, F.J. (2019, April). *Is hunger a hidden determinant of adolescent health? Evidence from the Canadian Health Behaviour in School-aged Children Study* [Poster session]. McGill University Psychology Undergraduate Research Day, Montreal, QC, Canada.

Monson, E., Morvannou, A., Arsenault, N., **Shaw, M.**, & Kairouz, S. (2019, May). *Are General and Activity-Specific Problem Gambling Severity Index (PGSI) Scores Consistent?* [Poster session]. Canadian Psychological Association Conference, Halifax, NS, Canada.

AWARDS & DISTINCTIONS

SSHRC Canada Graduate Scholarship – Doctoral (\$105,000)	2022-2025
Fonds de Recherche du Québec – Nature et technologies B1X (\$35,000)	2020-2022
Best Student Presentation, Canadian Psychological Association Conference	2022
Graduate Research Enhancement and Travel Award (\$750)	2022
Association for Psychological Science Small Grant for Teaching Project (\$4,917.20)	2021
Trottier Fellowship (\$5,000)	2020-2021
Canadian Psychological Association Best Article Award (\$1,000)	2021
Psychology Undergraduate Research Award (\$7,000)	2019
Tomlinson Engagement Awardee for Mentoring (\$300)	2018
Sceptre Investment Counsel Limited Scholarship (\$2,000)	2016-2017
Dean’s Honour List	2014-2016

TEACHING

Workshops

Understanding, Calculating, and Interpreting R-squared in Multilevel Models	Summer 2022
<ul style="list-style-type: none"> • Collaborator: Dr. Jessica Flake 	

Graduate Teaching Assistant

Introduction to Statistics	Fall 2023
Multilevel Modelling	Winter 2023
Introduction to Statistics	Winter 2022

Co-instructor, Multilevel Modelling	Winter 2021
Tutorial Development	
Comprehensive Multilevel Modeling Materials for Students and Instructors	Fall 2021
<ul style="list-style-type: none"> • Collaborator: Dr. Jessica Flake 	
Multilevel Modelling Data Analysis Demonstrations	Winter 2020
<ul style="list-style-type: none"> • Supervisor: Dr. Jessica Flake 	
Introductory Guide to Bash	Summer 2017
<ul style="list-style-type: none"> • Supervisor: Dr. Joseph Vybihal 	
Abnormal Psychology Summary Project	Fall 2016
<ul style="list-style-type: none"> • Supervisor: Amanda Ravary (teaching assistant) 	
Undergraduate Teaching Assistant	
Cognitive Development, McGill University	Fall 2018
<ul style="list-style-type: none"> • Instructor: Dr. Kristine Onishi 	

JOURNAL REVIEWS

Advances in Methods and Practices in Psychological Science
 Auditory Perception
 Motivation Science
 Psychological Science Accelerator

SERVICE

Member: Graduate Association for Students in Psychology	Fall 2020 – Fall 2022
Speaker: Panel for Prospective Graduate Students	Fall 2020

CERTIFICATIONS & SKILLS

Programming: R, Python, Git, LaTeX, Bokeh, Unix, Bash, JavaScript, HTML, CSS

Computing: AWS, Travis CI

Software: RStudio, SPSS, JASP

Ethics: Tri-Council Policy Statement Course on Research Ethics (TCPS 2: CORE)

Languages: English (native), French (intermediate)

Additional Certifications: YMCA Personal Trainer, CPR-C

RELEVANT COURSEWORK

- Introduction to Psychological Statistics
- Statistics for Experimental Design
- Computational Psychology
- Research Methods in Social Psychology
- Correlational Techniques
- Multilevel Modelling
- Foundations of Programming
- Introduction to Software Systems
- Introduction to Computer Science
- Introduction to Data Science
- Advanced Statistics 1
- Advanced Statistics 2
- Structural Equation Modelling
- Measurement Theory
- Quantitative Analysis
- Item Response Theory
- Introduction to Machine Learning
- Statistical Foundations for Research in Quantitative Psychology