





















# **EDUCATION**

# PhD, Quantitative Methods, Psychology (in progress)

E(2025)

York University, Toronto, Ontario Supervisor: Dr. Robert A. Cribbie

Dissertation (working title): A Bayesian Solution to a Frequentist Problem: Revisiting the Multiplicity Problem with Bayesian

Hierarchical Modelling

2021 MA, Psychology

Toronto Metropolitan University, Toronto, Ontario

Supervisor: Dr. Alyssa Counsell

Thesis: Equivalence testing for multiple regression

### **BSc, Specialized Honours, Psychology**

2016

York University, Toronto, Ontario Supervisor: Dr. Gary R. Turner

Thesis: The effects of cardio-respiratory fitness, physical activity, and sex differences

on brain structure and executive functioning in older adults

• Graduated Summa Cum Laude

### AWARDS, HONOURS, AND SCHOLARSHIPS

Joseph-Armand Bombardier Canada Graduate Scholarship, SSHRC, Doctoral	\$105,000	2021-2024
Academic Excellence Fund (York University)	\$150	2023
Faculty of Health's Graduate Student Conference Travel Award (York University)	\$500	2023
Michael Friendly Award for Quantitative Methodology Research (York University)	\$200	2022
Mirka Ondrack Award for Outstanding Contributions to the Statistical Consulting Service	NA	2022
Academic Excellence Fund (York University)	\$1,000	2022
Faculty of Health's Graduate Student Conference Travel Award (York University)	\$1,000	2022
Jim Rankin Award for Best Student Presentation in Psychology of Data Visualization (York University)	\$100	2022
Canadian Psychological Association's Scientific Affairs Committee Student Research Grant	\$1,500	2022
Student Travel Award, Quantitative Methods Section of the Canadian Psychological Association	\$100	2021
Ontario Graduate Scholarship (TMU; declined)	\$15,000	2021-2022
Toronto Metropolitan Graduate Scholarship (TMU)	\$15,000	2020-2021
Joseph-Armand Bombardier Canada Graduate Scholarship, SSHRC, Master's (TMU)	\$17,500	2019-2020
Joseph-Armand Bombardier Canada Graduate Scholarship, SSHRC, Master's (York University; declined)	\$17,500	2019-2020
Ontario Graduate Scholarship, Master's (York University; declined)	\$15,000	2019-2020
Dean's Honour Roll Membership with Distinction (York University)	NA	2012-2016
Continuing Student Scholarship (York University)	\$1,000	2012, 2014
Dr. Percy and Bernice Singer Award (York University)	\$1,000	2013

### PEER-REVIEWED PUBLICATIONS (n = 7)

- **Alter, U.,** & Counsell, A. (2023). Determining Negligible Association in Regression. *The Quantitative Methods in Psychology*. 19(1): 59-83. <a href="https://doi.org/10.20982/tqmp.19.1.p059">https://doi.org/10.20982/tqmp.19.1.p059</a>
- D'Amico, D., **Alter, U.**, & Fiocco, A. (2023). Cumulative stress exposure and cognitive function among older adults: The moderating role of a healthy lifestyle. *The Journals of Gerontology: Series B (Psychological Sciences)*. Advance online publication. <a href="https://doi.org/10.1093/geronb/gbad116">https://doi.org/10.1093/geronb/gbad116</a>
- Di Bartolomeo, A. A., **Alter, U.**, Olson, D. A., Cooper, M. B., Boritz, T., & Westra, H. A. (2023). *Predicting Resistance Management Skill from Psychotherapy Experience, Intellectual Humility and Emotion Regulation*. [in press]. Psychotherapy Research. <a href="https://doi.org/10.1080/10503307.2023.2280240">https://doi.org/10.1080/10503307.2023.2280240</a>
- Terry, J., Ross, R. M., Nagy, T., Salgado, M., Garrido-Vásquez, P., Sarfo, J. O., ... **Alter, U.**, ... Field, A. P. (2023). Data from an International Multi-Centre Study of Statistics and Mathematics Anxieties and Related Variables in University Students (the SMARVUS Dataset). *Journal of Open Psychology Data 11*: 8, 1–25. <a href="https://doi.org/10.5334/jopd.80">https://doi.org/10.5334/jopd.80</a>
- Spreng, R. N., Setton, R., **Alter, U.**, Cassidy, B. N., Darboh, B., DuPre, E., Kantarovich, K., Lockrow, A. W., Mwilambwe-Tshilobo, L., Luh, W., Kundu, P., & Turner, G. R. (2022). Neurocognitive aging data release with behavioral, structural and multi-echo functional MRI measures. *Scientific Data*, *9*(1), 119. <a href="https://doi.org/10.1038/s41597-022-01231-7">https://doi.org/10.1038/s41597-022-01231-7</a>
- Farmus, L., Beribisky, N., Martinez Gutierrez, N., **Alter, U.**, Panzarella, E., & Cribbie, R. A. (2022). Effect Size Reporting and Interpretation in Social Personality Research. *Current Psychology*. <a href="https://doi.org/10.1007/s12144-021-02621-7">https://doi.org/10.1007/s12144-021-02621-7</a>
- Beribisky, N., **Alter, U.**, & Cribbie, R. A. (2021). A multi-faceted mess: A review of statistical power analysis in psychology journal articles. *Meta-Psychology*. Advanced online publication. <a href="https://doi.org/10.31234/osf.io/3bdfu">https://doi.org/10.31234/osf.io/3bdfu</a>

#### SUBMITTED MANUSCRIPTS (n = 7)

- Camilleri, C., Alter, U., Cribbie, R. A. (2023). *Identifying Influential Observations in Multiple Regression*. [Manuscript submitted for publication]. Methodology.
- **Alter, U.,** Too, M. A., & Cribbie, R. A. (2023). *Bayesian Estimation of General Linear Models in R: A Hands-On Tutorial with Code*. [Abstract submitted for publication]. Special Issue of the International Journal of Psychology: Tutorials on Quantitative Methods for Applied Psychological Researchers.
- Too, M. A., **Alter, U.**, & Flora, D. B. (2023). *Modelling Count Data in Psychological Research: An Applied Tutorial*. [Abstract submitted for publication]. Special Issue of the International Journal of Psychology: Tutorials on Quantitative Methods for Applied Psychological Researchers.
- Alter, U., Dang, C., Kunicki, Z., & Counsell, A. (2023). How Do Your Students Feel About Statistical Software? A Brief Instructor Tool for Assessing How (SPSS) Software Impacts Learning Statistics. [Revise and resubmit]. Teaching Statistics.
- Truong, M. & **Alter, U.** (2023). *Throwing A Fit: A Novel Method to Properly Evaluate Goodness-of-Fit Between Discrete Distributions*. [Manuscript submitted for publication]. Journal of Categorical Data Analysis.
- D'Amico, D., **Alter, U.**, & Fiocco, A. (2023). *Healthy lifestyle as a moderator of the relationship between psychological distress and cognitive decline among older adults in the NuAge study*. [Manuscript submitted for publication]. Gerontology.
- Lohmann, A., Luijken, K., Alter, U., Claramunt Gonzalez, J., Clouth, F., Fossum, J.L., Hesen, L., Huizing, A., Ketelaar, J., Montoya, A.K., Nab, L., Nijman, R.C.C., Penning de Vries, B.B.L., Tibbe, T.D., Wang, Y.A., Groenwold, R.H.H. (2023). *Replicability of Simulation Studies for the Investigation of Statistical Methods: The RepliSims Project*. [Manuscript submitted for publication]. Royal Society Open Science. <a href="https://replisims.org/">https://replisims.org/</a>

#### **SOFTWARE DEVELOPMENT** (n = 1)

Cribbie, R. A., **Alter, U.**, Beribisky, N., Chalmers, R. P., Counsell, A., Farmus, L., Martinez Gutierrez, N., Ng, V. (2022). negligible: R package for negligible effect/equivalence testing. <a href="https://cran.r-project.org/web/packages/negligible/index.html">https://cran.r-project.org/web/packages/negligible/index.html</a>

#### **PREPRINTS**

Terry, J., Ross, R. M., Nagy, T., Salgado, M., Garrido-Vásquez, P., Sarfo, J. O., ... Alter, U., ... Field, A. P. (2022, October 10). Data from an International Multi-Centre Study of Statistics and Mathematics Anxieties and Related Variables in University Students (the SMARVUS Dataset). PsyArXiv. <a href="https://psyarxiv.com/au9vp/">https://psyarxiv.com/au9vp/</a>

**Alter, U.,** & Counsell, A. (2021). *Determining Negligible Associations in Regression*. PsyArXiv. <a href="https://doi.org/10.17605/osf.io/w96xe">https://doi.org/10.17605/osf.io/w96xe</a>

Farmus, L., Beribisky, N., Martinez Gutierrez, N., Alter, U., Panzarella, E., & Cribbie, R. A. (2020). *Effect Size Reporting and Interpretation in Social Personality Research*. PsyArXiv. <a href="https://doi.org/10.31234/osf.io/nvczj">https://doi.org/10.31234/osf.io/nvczj</a>

Beribisky, N., **Alter, U.,** & Cribbie, R. A. (2019). *A multi-faceted mess: A review of statistical power analysis in psychology journal articles*. PsyArXiv. <a href="https://doi.org/10.31234/osf.io/3bdfu">https://doi.org/10.31234/osf.io/3bdfu</a>

#### **TEACHING EXPERIENCE**

#### **GRADUATE**

# **Teaching Assistant, Multilevel Modeling**

Spring 2023

York University, Toronto, Ontario

### **Course Director, Introduction to R short course (QMWS)**

**Spring 2022** 

York University, Toronto, Ontario

Teaching Assistant, Introduction to Systematic Reviews and Meta-Analysis short course (QMWS) Winter 2022 York University, Toronto, Ontario

### Teaching Assistant, Introduction to R short course (QMWS)

**Fall 2021** 

York University, Toronto, Ontario

### Teaching Assistant, Statistics and Research Design II

Winter 2021

Toronto Metropolitan University, Toronto, Ontario

#### Teaching Assistant, Statistics and Research Design I

Fall 2020

Toronto Metropolitan University, Toronto, Ontario

### **UNDERGRADUATE**

#### Tutorial Lead, Statistical Methods I and II

Fall 2023-Winter 2024

York University, Toronto, Ontario

### Tutorial Lead, Statistical Methods II

Winter 2023

York University, Toronto, Ontario

### Tutorial Lead, Statistical Methods I and II

Fall 2021-Winter 2022

York University, Toronto, Ontario

#### **Teaching Assistant, Fundamentals of Regression short course (QMWS)**

**Fall 2021** 

York University, Toronto, Ontario

#### **Teaching Assistant, Psychology of Sports**

Fall 2019

Toronto Metropolitan University, Toronto, Ontario

#### PROFESSIONAL WORKSHOPS (n = 3)

- Alter, U., & Martinez Gutierrez, N. (2022, June 17-19). *Introduction to R*. [Workshop]. Canadian Psychological Association 83rd Annual National Convention, Calgary, AB, Canada. <a href="https://osf.io/6g4js/">https://osf.io/6g4js/</a>
- Adkins, M. C., **Alter, U.**, Beribisky, N., Chalmers, R. P., & Wang, Y. A. (2021, June 23). *Understanding and Incorporating Data Simulation into the Research Pipeline: A Practical Guide for the Novice Simulator* [workshop]. Society for the improvement of psychological science annual conference, virtual/remote. <a href="https://osf.io/43zfg/">https://osf.io/43zfg/</a>
- Adkins, M. C., **Alter, U.**, Beribisky, N., & Chalmers, R. P. (2021, February 19). *So, you want to be a SimDesign(er)?* [workshop]. ouR coding club workshop series, virtual/remote, <a href="https://osf.io/tc6ga/">https://osf.io/tc6ga/</a>

# CONFERENCE PRESENTATIONS AND POSTERS (n = 25)

- D'Amico, D., **Alter, U.**, & Fiocco, A. (2023, October 26-28). *Psychological stress, healthy lifestyle behaviours, and cognitive health among older adults: Findings from two longitudinal cohort studies*. [Presentation accepted]. Canadian Association on Gerontology 53<sup>rd</sup> Annual Scientific and Educational Meeting, Toronto, ON, Canada.
- Luijken, K., Lohmann, A., **Alter, U.**, Claramunt Gonzalez, J., Clouth, F., Fossum, J.L., Hesen, L., Huizing, A., Ketelaar, J., Montoya, A.K., Nab, L., Nijman, R.C.C., Penning de Vries, B.B.L., Tibbe, T.D., Wang, Y.A., Groenwold, R.H.H. (2023, August 27-31). *Replicability of Simulation Studies for the Investigation of Statistical Methods: The RepliSims Project*. [Poster presentation]. 44<sup>th</sup> Annual Conference of the International Society for Clinical Biostatistics, Milan, Italy.
- Martinez Gutierrez, N., DeSouza, J., Beribisky, N., **Alter, U.**, Farmus, L. & Cribbie, R. A. (2023, June 27-29). Evaluating the Multiplicity Control Practices of Psychology Researchers. [Poster presentation]. The Modern Modeling Methods 9<sup>th</sup> Annual Convention, Storrs, CT, United States.
- **Alter, U.** & Chalmers, R. P. (2023, June 27-29). *Item-Weighted Expected a Posteriori Method for Improved Latent Trait Estimation in Item Response Theory*. [Poster presentation]. The Modern Modeling Methods 9<sup>th</sup> Annual Convention, Storrs, CT, United States.
- Alter, U., Crone, G., Camilleri, C., Counsell, A. (2023, June 22-25). *The perceived utility and necessity of statistics training outside of Ph.D. programs*. in A. Counsell (Chair), Attitudes, Barriers, and Training in Open Science Research Practices [Symposium], Canadian Psychological Association 84th Annual National Convention, Toronto, ON, Canada.
- Camilleri, C., Crone, G., **Alter, U.**, Counsell, A. (2023, June 22-25). *Statistics Attitudes, Research Practices, and Barriers to Engaging in Open Science*. in A. Counsell (Chair), Attitudes, Barriers, and Training in Open Science Research Practices [Symposium], Canadian Psychological Association 84th Annual National Convention, Toronto, ON, Canada.
- Alter, U., Friendly, M. (2023, June 22-25). Raising the bar graph: upgrading to interactive dynamic data visualizations in psychology [Conference presentation]. Canadian Psychological Association 84th Annual National Convention, Toronto, ON, Canada.
- Camilleri, C., **Alter, U.**, Cribbie, R. A. (2023, June 22-25). *Identifying Influential Observations in Multiple Regression*. [Poster presentation], Canadian Psychological Association 84th Annual National Convention, Toronto, ON, Canada.
- Beribisky, N., **Alter, U.**, & Cribbie, R. A. (2023, May 3). *The Earth is Not Round, p > .05: Equivalence Testing in Statistics Education*. Researchers of Statistics Education Network Virtual Conference. <a href="https://www.rose-network.org/events/rose-2023">https://www.rose-network.org/events/rose-2023</a>
- Alter, U., & Martinez Gutierrez, N. (2022, June 17-19). *Introduction to R*. [Conference workshop]. Canadian Psychological Association 83rd Annual National Convention, Calgary, AB, Canada. <a href="https://osf.io/6g4js/">https://osf.io/6g4js/</a>
- Martinez Gutierrez, N., **Alter, U.**, Beribisky, N., Farmus, L. & Cribbie, R. A. (2022, June 17-19). *An R Package for Negligible Effect Testing: Graphing a Novel Effect Size Measure*. [Paper within a symposium accepted]. Canadian Psychological Association 83rd Annual National Convention, Calgary, AB, Canada.

- **Alter, U.,** Farmus, L., & Counsell, A. (2021, June 7-25). *A psychometric evaluation of the statistical software experiences scale.* [Poster presentation]. Association for Psychological Science 2021 Virtual Convention.
- Dang, C., Alter, U., Kunicki, Z., & Counsell, A. (2021, June 7-25). Attitudes toward spss scale: a psychometric evaluation to help facilitate student learning. [Poster presentation]. Association for Psychological Science 2021 Virtual Convention.
- Alter, U., & Counsell, A. (2021, June 7-11). Equivalence testing for multiple regression. [Poster presentation]. Canadian Psychological Association 82nd Annual National Convention, virtual conference.
- Counsell, A., Kunicki, Z., & **Alter, U.** (2020, June 25-26). *Hypothesis testing is not enough! Revamping the undergraduate statistics course curricula in psychology.* [Conference session]. A Meeting of Methodologies: Advancing Methods Development, Application, and Teaching in Psychology, the Behavioural, and Social Sciences 1st Annual International Convention, Burnaby, BC, Canada, <a href="http://www.sfu.ca/content/dam/sfu/psychology/research/mml/AMOM">http://www.sfu.ca/content/dam/sfu/psychology/research/mml/AMOM</a> 2020 program.pdf
- Kunicki, Z., Counsell, A., & **Alter, U.** (2020, June 25-26). *The only constant is change: How do we encourage the use of recommended statistical methods as they become available?* [Conference session]. A Meeting of Methodologies: Advancing Methods Development, Application, and Teaching in Psychology, the Behavioural, and Social Sciences 1st Annual International Convention, Burnaby, BC, Canada, <a href="http://www.sfu.ca/content/dam/sfu/psychology/research/mml/AMOM">http://www.sfu.ca/content/dam/sfu/psychology/research/mml/AMOM</a> 2020 program.pdf
- Alter, U., & Counsell, A. (2020, May 27-30). *Equivalence testing for multiple regression*. [Poster presentation]. Canadian Psychological Association 81st Annual National Convention, Montréal, QC, Canada. (Conference cancelled due to COVID-19)
- Counsell, A., Campbell, L., **Alter, U.**, & Adkins, M. (2020, June 21-23). *Increasing awareness and adoption of Open Science practices*. [Conference session]. Society for the Improvement of Psychological Science 5th Annual International Meeting, Victoria, BC, Canada, <a href="https://www.improvingpsych.org/SIPS2020/">https://www.improvingpsych.org/SIPS2020/</a> (Conference cancelled due to COVID-19)
- Chiacchia, D. J., **Alter, U.**, & Cribbie, R. A. (2021, July 18-23). *The prevalence and magnitude of misleading visualizations in social and personality psychology*. [Poster presentation]. 32nd International Congress of Psychology, Prague, Czech Republic.
- Beribisky, N., Panzarella, E., Martinez Gutierrez, N., Farmus, L., **Alter, U.**, & Cribbie, R. A. (2020, May 27-30). Comparing effect size reporting and interpretation practices across social-personality journals. [Poster presentation]. Canadian Psychological Association 81st Annual National Convention, Montréal, QC, Canada, <a href="https://eventmobi.com/cpa2020/agenda/0000000-0000-0000-0000-4147454e4441/d835677a-efb3-4d3a-bfcb-7a8d024c38c2">https://eventmobi.com/cpa2020/agenda/00000000-0000-0000-0000-4147454e4441/d835677a-efb3-4d3a-bfcb-7a8d024c38c2</a>
- Beribisky, N., **Alter, U.**, & Cribbie, R. A. (2019, May 31-June 2). A review of traditional a-priori power analysis. In R. Cribbie (Chair), Modern Issues in Transitioning from NHST to Estimation-Based Statistics, [Symposium], Canadian Psychological Association 80th Annual National Convention, Halifax, NS, Canada. https://cpa.ca/docs/File/Convention/2019/CPA-2019-Full Program Abstracts-DIGITAL FINAL.pdf
- Beribisky, N., Alter, U., & Cribbie, R. A. (2018, May 24-27). A review of statistical power analysis in psychology journal articles. [Poster presentation] Association for Psychological Science Annual Convention, San Francisco, CA, United States.
- Alter, U., van den Brink, C., & Turner, G. R. (2016, May 12). Sex differences in the influence of aspects of physical health on neurocognitive aging. [Poster presentation]. YU-CARE & Canadian Association on Gerontology-Student Connection Symposium: Multidisciplinary Perspectives in Aging Research, Toronto, ON, Canada, <a href="https://yucare.info.yorku.ca/files/2016/05/Conference">https://yucare.info.yorku.ca/files/2016/05/Conference</a> Program May12 2016.pdf?x95179

Alter, U., & Turner, G. R. (2016, May 6). The effects of cardio-respiratory fitness, physical activity, and sex differences on brain structure and executive functioning in older adults. [Conference session]. The Annual Ontario Psychology Undergraduate Thesis Conference at Wilfrid Laurier University, Waterloo, ON, Canada.

### INVITED TALKS (n = 9)

- Beribisky, N., **Alter, U.**, & Cribbie, R. A. (2023, May 3). *The Earth is Not Round, p > .05: Equivalence Testing in Statistics Education*. Researchers of Statistics Education Network Virtual Conference. <a href="https://www.rose-network.org/events/rose-2023">https://www.rose-network.org/events/rose-2023</a>
- Cribbie, R. A., Camilleri, C., & **Alter, U.** (2023, March 27). *Identifying Influential Observations in Multiple Regression*. [Paper presentation]. Quantitative Methods Area Forum, York University, Toronto, ON, Canada.
- **Alter, U.** & Friendly, M. (2023, January 23). *Raising the bar graph: incorporating interactive dynamic data visualizations in psychology.* [Paper presentation]. Quantitative Methods Area Forum, York University, Toronto, ON, Canada.
- **Alter, U.** & Counsell, A. (2021, October 18). *Equivalence testing for multiple regression*. [Paper presentation]. Quantitative Methods Area Forum, York University, Toronto, ON, Canada.
- Alter, U., (2021, July 5). Considerations for Applying and Choosing a Canadian Graduate Program in Psychology. [10-min talk]. Borderline Personality Disorder Clinic's Lunch & Learn Series, Centre for Addiction and Mental Health (CAMH), Toronto, ON, Canada.
- Alter, U. & Counsell, A. (2020, October 6). *Identifying the Reasons Behind Poor Research Practices Among Canadian*Psychology Researchers and the Effects of Voluntary Training on Adherence to Methodological Recommendations. [Area talk]. Social Area Meeting of the Psychology Department, Toronto Metropolitan University, Toronto, ON, Canada.
- Alter, U. & Counsell, A. (2020, March 1). Evaluating Equivalence Testing Methods for Identifying Practically Negligible Predictors in Multiple Regression. [Area talk]. Social Area Meeting of the Psychology Department, Toronto Metropolitan University, Toronto, ON, Canada.
- Cribbie, R. A., Panzarella, E., Farmus, L., Martinez Gutierrez, N., Beribisky, N., & **Alter, U.** (2020, February 24). *Effect Size Reporting in Social-Personality Research: The Good, the Bad, and the Ugly.* [Paper presentation]. Quantitative Methods Area Forum, York University, Toronto, ON, Canada.
- **Alter, U.,** van den Brink, C., & Turner, G. R. (2016, April). Sex differences in the influence of aspects of physical health on neurocognitive aging. [10-min talk]. The Undergraduate Psychology Thesis Presentation Conference at York University, Toronto, ON, Canada.

### MANUSCRIPTS IN PREPARATION (n = 6)

- Too, M., Alter, U., Cheng, J. T. (in prep.). Humility Facilitates Status Acquisition: Evidence from Ad Hoc and Naturalistic Groups. Target outlet: TBD.
- Alter, U. & Chalmers, R. P. (in prep.). Item-Weighted Expected a Posteriori Method for Improved Latent Trait Estimation in Item Response Theory. Target outlet: TBD
- **Alter, U.,** Camilleri, C., Crone, G., & Counsell, A. (in prep). The relationship between statistics attitudes and questionable research practices. Target outlet: TBD
- LaBrish, C., Alter, U., Kleindienst, N., Blacher, A., & McMain, S. (in prep.). IRT analysis of the borderline symptom list 23 (BSL-23) in both German and Canadian samples. Target outlet: TBD
- LaBrish, C., Alter, U., & McMain, S. (in prep.). Psychometric evaluation of the difficulty in emotion regulation (DERS) among patients suffering from borderline personality disorder (BPD). Target outlet: TBD
- Crone, G., **Alter, U.**, & Counsell, A. (in prep). Resources and barriers related to voluntary statistics training and tools for psychology researchers. Target outlet: Canadian Psychology

Updated: November 2023 U. Alter | 7 of 11

#### ACADEMIC AND RESEARCH EXPERIENCE

Junior Statistician 2021 - Present

Borderline Personality Disorder Clinic, Centre for Addiction and Mental Health (CAMH), Toronto, ON

- Conducted statistical and data analyses
- Conveyed and reported analyses results and interpretations in preparation of manuscripts

Research Associate 2018 - Present

Robust Statistics Lab, York University, Toronto ON

- Assisted in planning novel research investigations
- Participated in data collection and systematic reviews
- Synthesized large bodies of data and collaborated on analyses and interpretations of results
- Created recommendations for best research and statistical practices
- Designed statistical functions and R packages

Practicum Student 2020 - 2021

Borderline Personality Disorder Clinic, Centre for Addiction and Mental Health (CAMH), Toronto, ON

- Conducted literature reviews for ongoing projects
- Performed statistical and data analysis for validating psychometric measures

Research Associate 2019 - 2021

Psychology and Statistics Education Research (PASER) lab, Toronto Metropolitan University, Toronto, ON

- Conducted literature reviews, data collection and analyses, and worked on multiple projects
- Wrote statistical functions for R users
- Assisted with planning studies in equivalence testing and sample size calculations

Joint Lab Manager 2016 - 2018

Cognitive Neuroscience & Neurointervention (C.N.N.) Lab and

Cognition & Aging Neuroscience (C.A.N.) Lab, York University, Toronto, ON

- Took part in heading an international, multi-site cognitive and neuroimaging collaboration study (Goal-D)
- Directed data collection of several simultaneously ongoing lab studies
- Led a team of 6 graduate students, 3 undergraduate students, 2 staff positions, and numerous volunteers
- Coordinated staff and participant scheduling
- Recruited and screened incoming lab candidates, and trained volunteers and staff on lab protocols
- Managed lab servers and oversaw all incoming and outgoing communications of the lab
- Oversaw data processing: Behavioural, neuropsychological, MRI, and fMRI database management and analysis

Research Assistant 2017 - 2018

Cognition & Aging Neuroscience (C.A.N.) Lab, York University, Toronto, ON

- Administered and scored various cognitive tests and measures
- Managed participant pool recruitment, communication, progress tracking, and ongoing tech support for a neurofeedback pilot study

Research Associate 2014 - 2018

Cognitive Neuroscience and Neuro-intervention (C.N.N.) Lab, York University, Toronto, ON

- Administered various neuropsychological tests and measures
- Scored psychological and cognitive measures, and processed data which enabled ongoing publications
- Conducted data and statistical analysis on large-scale datasets of behavioural measures, neuropsychological tests, and MRI/fMRI imaging

### **AD HOC REVIEWER**

- Journal of Statistics and Data Science Education
- Canadian Psychological Association, Quantitative Methods Section (Convention abstract submissions)

#### **ACADEMIC SERVICE**

#### **EXTERNAL**

### Equity, Diversity, and Inclusion (EDI) Committee Member

2023 - Present

Researchers of Statistics Education Network (RoSE)

- Responsible for actioning RoSE EDI strategy and initiatives, working closely with the EDI Co-Director
- Working with other RoSE committee members to ensure all aspects of RoSE are equitable, diverse, and inclusive at the practical level and implementing change (e.g., making sure there are no barriers to attending events, ensuring marketing materials are accessible, advising research teams on language of demographic questions etc.)
- Scope to focus on a particular demographic (e.g., be the EDI rep for LGBTQIA2S+, race/ethnicity, etc.)
- Other ad-hoc tasks relating to EDI for the RoSE Network

#### **Conference Permanent Committee Member**

2023 - Present

Researchers of Statistics Education Network (RoSE)

• Assisted Committee Chairs with the organization, running, and hosting of RoSE conferences on an ongoing basis

#### **Cofounder and Coordinator**

2020 - 2023

ouR Coding Club!

- ouR coding club is a free, low-risk, social, and supportive environment for students and researchers at any level who wish to learn and share R code, a popular syntax-based statistical software
- ouR coding club teaches and emphasizes open science and transparent research practices above all
- Sessions include tackling and sharing technical issues and questions, learning from one another, and different workshops

#### **Student Representative, Quantitative Methods Executive Committee**

2020 - 2022

Quantitative Methods Section of the Canadian Psychological Association (CPA)

- Disseminated information to student members regarding activities of the section
- Represented student members by bringing important student issues to the attention of the Executive Committee
- Performed duties assigned by the Chairperson or requested by the Executive Committee or the general membership

#### **Social Media and Outreach Committee**

2021 - 2022

Society for the Improvement of Psychological Science (SIPS)

• Served as a committee member

### CPA Student Representative (Graduate Program) at York University

**2021 - Present** 

Canadian Psychological Association (CPA)

Promoted the services and benefits that the CPA offers to students in psychology graduate programs

### Methodology and Statistics Advisor

2020 - 2021

Free Our Knowledge Platform

- Assisted in preparing the methodological and statistical plan for several studies
- Participated in several pre-registration projects

# **CPA Student Representative (Graduate Program) at Toronto Metropolitan University**

2020 - 2021

Canadian Psychological Association (CPA)

• Promoted the services and benefits that the CPA offers to students in psychology graduate programs

#### **DEPARTMENTAL**

### Treasurer, Psychology Graduate Student Association (PGSA)

**2021 - Present** 

Department of Psychology, York University, Toronto, ON

- Prepared the budget for the Graduate Student Association
- Maintained accurate banking and accounting records and disbursements of PGSA funds
- Acted as the PGSA cheque-signing authority for funding requests and fundraising efforts

# Graduate Student Representative, Tenure and Promotion Adjudication Committee

2023

Department of Psychology, York University, Toronto, ON

# **Undergraduate Thesis Poster Competition Judge, Specialized Honours Program**

2023

Department of Psychology, York University, Toronto, ON

#### Cohort Representative, Graduate Student Anti-Racism Initiative (GSARI)

2020 - 2021

Department of Psychology, Toronto Metropolitan University, Toronto, ON

- Communicated cohort needs and concerns to the executive team
- Relayed policy decisions and updates to all cohort members

### Surveying Subgroup Member, Equity, Diversity, and Inclusion (EDI) Task Force

2020

Department of Psychology, Toronto Metropolitan University, Toronto, ON

- Assisted in surveying department faculty
- Conducted qualitative data analyses and visualizations
- Prepared and communicated results for presentation

**YU-CARE Committee** 2016 - 2017

York University Centre for Aging Research and Education (YU-CARE), York University, Toronto, ON

- Served as a committee member
- Assisted in organizing annual Aging Symposiums at York University

### STATISTICAL CONSULTING

Statistical Consultant 2021 - Present

Statistical Consulting Service (SCS), York University, Toronto, ON

### PROFESSIONAL ASSOCIATION MEMBERSHIP

Association for Psychological Science (Student Member)

Canadian Psychological Association (Quantitative Methods; Student Affiliate)

Society for Improving Psychological Sciences (Student Member)

Statistical Society of Canada (Student Member)

#### PROGRAMMING LANGUAGES

R

Python

### **MARKUP LANGUAGES**

LaTeX

HTML (basic skills)

CSS (basic skills)

### ANALYTICAL SOFTWARE, PACKAGE MANAGEMENT, RENDERING, OR SOURCE-CODE EDITORS

RStudio/Posit/Quarto

Anaconda

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Jupyter notebook

Visual Studio Code

**SPSS** 

**JASP** 

Git/GitHub/GitKraken/GitLab

G\*Power

### **GRAPHICAL DESIGN SOFTWARE**

Adobe Photoshop

Adobe Illustrator

Inkscape

# RECENT PROFESSIONAL DEVELOPMENT

#### **Artificial Intelligence in Education**

Teaching Commons, York University

### **Data Analytics and Machine Learning Using R**

Quantitative Methods Workshop Series (QMWS), York University

### **Introduction to Bayesian Analysis**

Quantitative Methods Workshop Series (QMWS), York University

### Learning and Teaching in Higher Education I

Centre for Excellence in Learning and Teaching, Toronto Metropolitan University

### **Introduction to Monte Carlo Simulation Experiments**

Quantitative Methods Workshop Series (QMWS), York University

#### **COMMUNITY ENGAGEMENT**

PUMP Mentor 2021 - Present

Psychology Undergraduate Mentorship Program (PUMP) at York University, Toronto, Ontario

provided mentorship to undergraduate students interested in graduate studies in Psychology

#### **Homework Club Tutor and Mentor**

2018 - 2020

Family Resource Centre, Vaughan, Ontario

- Assisted with homework, school projects, assessments, and test preparation to students in elementary and high school
- Provided mentorship for numerous students

Art Program Lead 2018 - 2019

Reena, Vaughan, Ontario

• Led a weekly art program for a group of 20 individuals with developmental disabilities

#### Café Europa Community Program Volunteer

2018 - 2019

Jewish Family & Child Services, Vaughan, Ontario

• Facilitated and assisted in bi-weekly social events for Holocaust survivors

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# Math and Statistics Tutor 2013 - 2018

Thornhill Community, Vaughan, Ontario

• Assisted with math and statistics homework, assignments, and test preparation for colleagues' and acquaintances' children and their friends in my community

### Volunteer, Community Outreach & Engagement Program

2010

JCC, New York, NY

- Facilitated arts and crafts projects, as well as athletic activity for children in the community
- Provided individual support to students who had difficulty with their school assignments
- Participated in classroom activities with 20 children between the ages of 6 and 8

Head Counsellor 2006 - 2009

"ILAN" Israeli Foundation, Kfar-Blum, Israel

- Served as the Head Counsellor for mentally and physically differently-abled children in a summer camp
- Initiated, recruited, trained and led a team of 10 soldiers diagnosed with PTSD who served as personal instructors for 10 children between the ages of 7 and 12
- Ensured that all staff and children had the necessary provisions, equipment, and nutrition to maintain the effective operations of the camp

### **LANGUAGES**

English

Hebrew