

UDI ALTER

Email: udi.alter@gmail.com
 Lab website: www.psystat.org/udi-alter
 ouR coding club!: <https://rcodingclub.wixsite.com/home>
 GitHub: [udialter](https://github.com/udialter) | Twitter: [@UdiAlter](https://twitter.com/UdiAlter)

EDUCATION

PhD, Quantitative Methods, Psychology	Expected 2025
<i>York University, Toronto, Ontario</i> Supervisor: Dr. Robert Cribbie	
MA, Psychology	2021
<i>Ryerson University, Toronto, Ontario</i> Supervisor: Dr. Alyssa Counsell Thesis: Equivalence testing for multiple regression <ul style="list-style-type: none"> GPA 4.28/4.33 	
BSc, Specialized Honours, Psychology	2016
<i>York University, Toronto, Ontario</i> 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 <ul style="list-style-type: none"> Final GPA 8.76/9 or 3.95/4 Graduated Summa Cum Laude 	

AWARDS, HONOURS, AND SCHOLARSHIPS

Joseph-Armand Bombardier Canada Graduate Scholarship, SSHRC, Doctoral	\$105,000	2021-2024
Ontario Graduate Scholarship, Master's (Ryerson University; declined)	\$15,000	2021-2022
Ryerson Graduate Scholarship (Ryerson University)	\$15,000	2020-2021
Joseph-Armand Bombardier Canada Graduate Scholarship, SSHRC, Master's (Ryerson University)	\$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

SUBMITTED MANUSCRIPTS

- Alter, U.,** Dang, C., Kunicki, Z., & Counsell, A. (2021). *Psychometric evaluation of attitudes toward SPSS measure* [Manuscript submitted for publication]. Department of Psychology, Ryerson University.
- Beribisky, N., **Alter, U.,** & Cribbie, R. A. (2020). *A multi-faceted mess: A review of statistical power analysis in psychology journal articles* [Manuscript submitted for publication]. Department of Psychology, York University.
- Farmus, L., Beribisky, N., Martinez Gutierrez, N., **Alter, U.,** Panzarella, E., & Cribbie, R. A. (2020). *Effect Size Reporting and Interpretation in Social Personality Research* [Manuscript submitted for publication]. Department of Psychology, York University.

NON-REFEREED PUBLICATIONS AND PREPRINTS

- Alter, U.**, & Counsell, A. (2021). *Equivalence Testing for Multiple Regression*. PsyArXiv. <https://doi.org/10.17605/osf.io/w96xe>
- 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. <https://doi.org/10.31234/osf.io/nvczj>
- Beribisky, N., **Alter, U.**, & Cribbie, R. A. (2019). *A multi-faceted mess: A review of statistical power analysis in psychology journal articles*. PsyArXiv. <https://doi.org/10.31234/osf.io/3bdfu>

PROFESSIONAL WORKSHOPS

- 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, <https://osf.io/tc6ga/>.
- 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. <https://osf.io/43zfq/>

OPEN-ACCESS TOOLS

- Alter, U.** (2021). reg.equiv & reg.equiv.fd: Using equivalence testing to evaluate negligible predictors in multiple regression. R functions. <https://github.com/udialter/equivalence-testing-multiple-regression>

REFEREED PRESENTATIONS

- 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, http://www.sfu.ca/content/dam/sfu/psychology/research/mml/AMOM_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, http://www.sfu.ca/content/dam/sfu/psychology/research/mml/AMOM_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, <https://www.improvingpsych.org/SIPS2020/> (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.

- Farmus, L., **Alter, U.**, Beribisky, N., Martinez Gutierrez, N., Panzarella, E., & Cribbie, R. A. (2020, May 27-30). Adherence to effect size reporting practices in current psychological research. in A. Richard (Chair), Effect sizes and confidence intervals: Current practices and recommendations for improvement [Symposium], Canadian Psychological Association 81st Annual National Convention, Montréal, QC, Canada, <https://eventmobi.com/cpa2020/agenda/00000000-0000-0000-0000-4147454e4441/33339274-884b-4d6c-ae8c-3f94575a4c45>
- 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, <https://eventmobi.com/cpa2020/agenda/00000000-0000-0000-0000-4147454e4441/d835677a-efb3-4d3a-bfcb-7a8d024c38c2>
- 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_Abstacts-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, https://yucare.info.yorku.ca/files/2016/05/Conference_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

- 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, Ryerson University, Toronto, ON, Canada.
- Alter, U.** & Counsell, A. (2020, March 1). Equivalence testing for multiple regression. [Area talk]. Social Area Meeting of the Psychology Department, Ryerson 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

- Alter, U.**, & Counsell, A. (2021). *Equivalence testing for multiple regression* [Manuscript in preparation]. Department of Psychology, Ryerson University.
- Wang, Y. A. & **Alter, U.** (2021). *Alternative methods of estimation for confirmatory factor analysis with ordinal data: A replication study* [Manuscript in preparation]. Department of Psychology, University of California Los Angeles.
- LaBrish, C., **Alter, U.**, & McMain, S. (2021). *Psychometric evaluation of the difficulty in emotion regulation (DERS) among patients suffering from borderline personality disorder (BPD)*. Borderline Personality Disorder Clinic, the Centre for Addiction and Mental Health.

ACADEMIC AND RESEARCH EXPERIENCE

Junior Statistician

2021 - Present

Centre for Addiction and Mental Health (CAMH), Toronto, ON

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

Practicum Student

2020 - 2021

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 - Present

Research Methods and Statistics Laboratory, Ryerson University, Toronto, ON

- Attended meetings on relevant statistical topics
- Conducted literature reviews for ongoing projects
- Assisted with planning studies in equivalence testing and sample size calculations

Research Assistant

2018 - 2019

Robust Statistics Laboratory, York University, Toronto ON

- Assisted in data collection and the systematic evaluation of power analyses in psychological literature
- Synthesized a large body of data and collaborated on data analysis and interpretation of results
- Participated in designing recommendations for power analysis administration, reporting practices, and standards

Joint Lab Manager

2016 - 2018

Cognitive Neuroscience & Neurointervention (C.N.N.) Laboratory and Cognition & Aging Neuroscience (C.A.N.) Laboratory, 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.) Laboratory, 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.) Laboratory, 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

TEACHING EXPERIENCE

GRADUATE

Teaching Assistant, Statistics and Research Design II

Winter 2021

Ryerson University, Toronto, Ontario

Teaching Assistant, Statistics and Research Design I

Fall 2020

Ryerson University, Toronto, Ontario

UNDERGRADUATE

Teaching Assistant, Psychology of Sport
Ryerson University, Toronto, Ontario

Fall 2019

ACADEMIC SERVICE

EXTERNAL

Social Media & Outreach Committee **2021 - Present**

Society for the Improvement of Psychological Science (SIPS)

- Served as a committee member

Cofounder and Coordinator **2020 - Present**

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 - Present**

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

Methodology and Statistics Advisor **2020 - Present**

Free Our Knowledge Platform

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

DEPARTMENTAL

Surveying Subgroup Member, Equity, Diversity, and Inclusion (EDI) Task Force **2020**

Department of Psychology, Ryerson University, Toronto, ON

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

Cohort Representative, Graduate Student Anti-Racism Initiative (GSARI) **2020 - Present**

Department of Psychology, Ryerson University, Toronto, ON

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

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 Symposia at York University

PROFESSIONAL ASSOCIATION MEMBERSHIP

Association for Psychological Science (Student Member)

Canadian Psychological Association (Student Affiliate)

Society for Improving Psychological Sciences (Student Member)

Statistical Society of Canada (Student Member)

ANALYTICAL SOFTWARE

R/RStudio

Python

SPSS

Git/GitHub/GitKraken/GitLab

G*Power

RECENT PROFESSIONAL DEVELOPMENT

Learning and Teaching in Higher Education I

Centre for Excellence in Learning and Teaching, Ryerson University

Remote Learning Certificate

Centre for Excellence in Learning and Teaching, Ryerson University

Complete Linear Algebra: Theory and Implementation in Code

Udemy, Inc.

COMMUNITY ENGAGEMENT

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

ESL Tutor

2016 - 2018

SPARK Ontario, Toronto, Ontario

- Tutored and taught English in a Syrian newcomer community

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