

## UDI ALTER

Email: [udi.alter@gmail.com](mailto:udi.alter@gmail.com)

Personal website: [udialter.com](http://udialter.com)

Robust Statistics lab website: [cribbie.info.yorku.ca](http://cribbie.info.yorku.ca)

Research Methods and Statistics lab website: [www.psystat.org](http://www.psystat.org)

ouR coding club! website: [rcodingclub.wixsite.com/home](http://rcodingclub.wixsite.com/home)

### EDUCATION

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#### PhD, Quantitative Methods, Psychology (in progress)

Expected 2025

York University, Toronto, Ontario

Supervisor: Dr. Robert A. Cribbie

#### MA, Psychology

2021

Ryerson 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

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Joseph-Armand Bombardier Canada Graduate Scholarship, SSHRC, Doctoral (York University)	\$105,000	2021-2024
Ontario Graduate Scholarship (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

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**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

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- 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

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- 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/>
- 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/>

## OPEN-ACCESS TOOLS

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- 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

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- 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](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](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\\_Abstracts-DIGITAL\\_FINAL.pdf](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, [https://yucare.info.yorku.ca/files/2016/05/Conference\\_Program\\_May12\\_2016.pdf?x95179](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

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- 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, 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

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- LaBrish, C., **Alter, U.**, Kleindienst, N., Blacher, A., & McMain, S. (2021). IRT analysis of the borderline symptom list 23 (BSL-23) in both German and Canadian samples. Borderline Personality Disorder Clinic, the Centre for Addiction and Mental Health.
- Alter, U.**, & Counsell, A. (2021). *Equivalence testing for multiple regression* [Manuscript in preparation]. Department of Psychology, Ryerson University. <https://doi.org/10.17605/osf.io/w96xe>

Lohmann, A., Montoya, A., Huizing, A., Penning de Vries, B. B. L., Clouth, F., Fossum, J., Ketelaar, J., Claramunt Gonzalez, J., Luijken, K., Heslen, L., Nab, L., Nijman, R., Tibbe, T., Wang, Y. A., **Alter, U.** Groenwold, R. H. H. (2021). *Replicability of Simulation Studies for the investigation of statistical methods: The RepliSims Project*. Department of Clinical Epidemiology, Leiden University Medical Centre, Leiden, The Netherlands. <https://replisims.org/>

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

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### 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

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### 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** **Fall 2019**  
*Ryerson University, Toronto, Ontario*

## ACADEMIC SERVICE

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### EXTERNAL

**CPA Student Representative (Graduate Program) at Ryerson University** **2020 - Present**  
*Canadian Psychological Association (CPA)*

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

**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

**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

**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

**YU-CARE Committee**

*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**

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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)

**ANALYTICAL SOFTWARE**

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R/RStudio

Python

SPSS

JASP

Git/GitHub/GitKraken/GitLab

G\*Power

**RECENT PROFESSIONAL DEVELOPMENT**

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**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*

**COMMUNITY ENGAGEMENT**

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**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***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**

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English

Hebrew