**CURRICULUM VITAE**

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Education

Date Degree Specialization School

2001 PhD Quantitative Psychology University of Manitoba

1995 MA Experimental Psychology Lakehead University

1993 HBA Psychology Laurentian University

Current Positions

Dates Title Organization Affiliation

2020-2023 Associate Undergraduate Department of Psychology York University

 Program Director

2015-2020 Coordinator Statistical Consulting Service York University

2014-present Editorial Board Member Journal of Experimental Taylor & Francis

 Education Group

2011-present Professor Department of Psychology York University

2002-present Editorial Board Member Canadian Journal of the Canadian

 Behavioural Sciences Psychological Assoc.

Previous Positions

Dates Title Organization Affiliation

2014-2015 Visiting Professor Department of Psychology Florida International University

2014-2015 Visiting Member Integrative Biostatistics and Florida International

 Data Management Centre University

2011-2014 Coordinator Statistical Consulting York University

 Service

2007-2011 Associate Coordinator Statistical Consulting York University

 Service

2004-2011 Associate Professor Department of Psychology York University

2005- 2006 Coordinator Statistical Consulting York University

 Service

2001-2005 Associate Coordinator Statistical Consulting York University

 Service

2000-2004 Assistant Professor Department of Psychology York University

2000-2002 Statistical Consultant Department of Psychology York University

1998-2000 Statistical Consultant Alcohol & Tobacco Health Sciences Ctr.,

 Research Unit Winnipeg, MB

1996-2000 Lecturer Department of Psychology Univ. of Manitoba

1995-2000 Research Assistant Dr. H. J. Keselman Univ. of Manitoba

Publications

Articles (refereed), student authors are bolded:

**Panzarella, E., Beribisky, N.** & Cribbie, R. A. (in press). Denouncing the use of field-specific

 effect size distributions to inform magnitude. *PeerJ*.

**Tajik-Parvinchi, D., Farmus, L.,** Tablon-Modica1, P., Cribbie, R. A., Weiss, J. A. (in press).

The role of cognitive control and emotion regulation in predicting mental health problems in children with neurodevelopmental disorders. *Child: Care, Health and Development.*

**Jabbari, Y.,** & Cribbie, R. A. (in press). Negligible interaction test for continuous predictors. *Journal of Applied Statistics*.

**Martinez Gutierrez, N.** & Cribbie, R. A. (in press). Incidence and interpretation of statistical suppression in psychological research. *Canadian Journal of the Behavioural Science.*

**Beribisky, N., Mara, C.**, & Cribbie, R. A. (2020). An equivalence-based approach to assessing substantial mediation. *The Quantitative Methods for Psychology, 16,* 424-441. DOI: https://doi.org/10.20982/tqmp.16.4.p424

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performance in introductory statistics: A systematic review and meta-analysis. *Journal of Statistics Education, 28,* 316-325. DOI: *10.1080/10691898.2020.1834475.*

Tajik-Parvinchi, D., **Farmus, L.**, Cribbie, R. A., **Albaum, C.**, Weiss, J. A. (2020). Clinical and

parental predictors of emotion regulation following cognitive behaviour therapy in children with autism. *Autism: The International Journal of Research and Practice, 24,* 851-866*.* DOI: *https://doi.org/10.1177/1362361320909178.*

**Zorzella, K. P. M.,** Muller, R. T., Cribbie, R. A., **Bambrah, V.**, & Classen, C. C. (2020). The

role of alexithymia in trauma therapy outcomes: Examining improvements in PTSD, dissociation, and interpersonal problems. *Psychological Trauma: Theory, Research, Practice, and Policy, 12*, 20–28. DOI: *https://doi.org/10.1037/tra0000433*

**Chaves, G., Ghisi, G.**, Cribbie, R. A., Servio, T., Britto, R. R., Pack, Q., & Grace, S. L. (2020). Healthcare administrators’ attitudes toward cardiac rehabilitation in North and South America and development of a scale to assess them. *Heart, Lung, & Circulation*, *29(7): e111-e120.* DOI: *10.1016/j.hlc.2019.09.006.*

**Hunter, A., Beribisky, N., Farmus, L**., & Cribbie, R. (2020). Multiplicity control vs

replication: Making an obvious choice even more obvious. *Meta-Psychology, 4, DOI: https://doi.org/10.15626/MP.2019.1992*.

**Counsell, A.,** Cribbie, R. A., & Flora, D. (2020). Evaluating equivalence testing methods for measurement invariance. *Multivariate Behavioral Research, 52,* 312-328. DOI:

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(2020). Fear of movement in children and adolescents undergoing major surgery: A psychometric evaluation of the Tampa Scale for Kinesiophobia. *European Journal of Pain, 24,* 1999–2014. DOI: *https://doi.org/10.1002/ejp.1643*

**Beribisky, N., Davidson, H.**, Cribbie, R. A. (2019). Exploring perceptions of meaningfulness in visual representations of bivariate relationships. *PeerJ*, 7:e6853, https://doi.org/10.7717/peerj.6853.

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heteroscedasticity and nonnormality: Further exploring robust means modeling. *Journal of Modern Applied Statistical Methods, 18.* DOI: 10.22237/jmasm/1571659200.

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**Farmus, L**., Arpin-Cribbie, C. A., & Cribbie, R. A. (2019). Continuous predictors of pretest-posttest change: Highlighting the impact of the regression artifact. *Frontiers in Quantitative Psychology and Measurement, 4*, 1-8. 4:64. DOI: 10.3389/fams.2018.00064.

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and the robust Yuen-Welch test for analyzing group means with skewed and heteroscedastic data. *Communications in Statistics: Simulation and Computation, 48*, 2269-2286*.* DOI: 10.1080/03610918.2018.1440301.

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**Shiskina, T., Farmus, L.**, & Cribbie, R. A. (2018). Testing for a lack of relationship

among categorical variables. *The Quantitative Methods for Psychology, 14,* 167-179.

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**Kim, Y. J.** & Cribbie, R. A. (2018). The variance homogeneity assumption and the traditional ANOVA: Exploring a better gatekeeper. *British Journal of Mathematical and Statistical Psychology, 71,* 1-12*.* DOI: 10.1111/bmsp.12103.

**Campbell, L.**, Pillai Riddell, R. R., Cribbie, R. A., Garfield, H., & Greenberg, S. (2018).

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**Mara, C.** & Cribbie, R. A. (2017). Equivalence of population variances: Synchronizing the objective and analysis. *Journal of Experimental Education, 86*, 442-457. DOI:

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**Ng, V. K.** & Cribbie, R.A. (2017). Modeling continuous, skewed and heteroscedastic outcomes in psychology: Is generalized modeling the best 'fit'? *Current Psychology, 36*, 225-235. DOI: https://doi.org/10.1007/s12144-015-9404-0

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 Guidelines for choosing between difference scores, ANCOVA, and residual change scores. *Journal of Data Science, 14,* 205-230*.*

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**Zorzella, K. P. M.**, Muller, R. T., & Cribbie, R. A. (2015). The relationships between therapeutic alliance and internalizing and externalizing symptoms in Trauma-Focused Cognitive Behavioral Therapy. [*Child Abuse & Neglect*](http://www.sciencedirect.com/science/journal/01452134)*, 50*, 171–181.

**Mangardich, H**. & Cribbie, R. A. (2015). Assessing clinical significance using robust normative comparisons. *Psychotherapy Research, 25,* 239-248.

**Marjanovic, Z.,** Holden, R., Struthers, W., Cribbie, R., & Greenglass, E. (2015). The inter-item standard deviation (ISD): An index that discriminates between conscientious and random responders. *Personality and Individual Differences, 84,* 79-83.

**Counsell, A.** & Cribbie, R. A. (2015). Equivalence tests for comparing correlation and regression coefficients. *British Journal of Mathematical and Statistical Psychology, 68*, 292-309.

**Marjanovic, Z.**, Struthers, W., Cribbie, R. A., & Greenglass, E. (2014). The Conscientious Responder's Scale: A new tool for discriminating between conscientious and random responders. *SAGE Open, 4,* 1-10.

**Smith, C.**, & Cribbie, R. A. (2014). Factorial ANOVA with unbalanced data: A fresh look at the types of sums of squares. *Journal of Data Science, 12*, 385-404.

**van Wieringen, K.** & Cribbie, R. A. (2014). Robust normative comparison tests for evaluating clinical significance. *British Journal of Mathematical and Statistical Psychology, 67,* 213-230*.*

**Allan, T. A.**, & Cribbie, R. A. (2013). Evaluating the equivalence of, or difference between,

 psychological treatments: An exploration of recent intervention studies. *Canadian Journal of Behavioural Science, 45*, 320-328.

**Koh, A.** & Cribbie, R. A. (2013). Robust tests of equivalence for *k* independent groups. *British Journal of Mathematical and Statistical Psychology*, *66,* 426–434.

Ritvo, P., Vora, K., Irvine, J., Mongrain, M., Azam, **Pirbaglou**, M., Guglietti, Wayne, & Cribbie, R. A. (2013). Reductions in negative automatic thoughts in students attending mindfulness tutorials predicts increased life satisfaction. *International Journal of Educational Psychology, 2*, 272-296.

**Mills, L.**, Pepler, D., & Cribbie, R. A. (2013). Effectiveness of residential treatment for substance-abusing youth: Benefits the Pine River Institute program. *Residential Treatment For Children & Youth, 30,* 202-226.

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**Smith, C.** & Cribbie, R. A. (2013). Multiplicity control in structural equation modeling: Incorporating parameter dependencies. *Structural Equation Modeling: An Interdisciplinary Journal*, *20*, 79-85. DOI: 10.1080/10705511.2013.742385

**Mara, C.** & Cribbie, R. A. (2012). Paired-samples tests of equivalence. *Communications in Statistics: Simulation and Computation, 41,* 1928-1943.

**Mara, C.**, Cribbie, R. A., Flora, D., **LaBrish, C., Mills, L., & Fiksenbaum, L.** (2012). An improved model for evaluating change in randomized pretest, posttest, follow-up designs. *Methodology: European Journal of Research Methods for the Behavioral and Social Sciences, 8,* 97-103.

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**Goertzen, J. R.** & Cribbie, R. A. (2010). Detecting a lack of association: An equivalence testing

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**Nasiakos, G.**, Cribbie, R. A., & Arpin-Cribbie, C. A. (2010). Equivalence based tests of clinical significance: Assessing treatments for depression*. Psychotherapy Research, 20,* 647-656.

Manzoni, G. M., Cribbie, R. A., Villa, V., Arpin-Cribbie, C. A., Gondoni, L., & Castelnuovo, G. (2010). Psychological well-being in obese inpatients with ischemic heart disease at entry and at discharge from a four-week cardiac rehabilitation program. *Frontiers in Psychology for Clinical Settings, 1:38,* 1-6*.*

**Mills, L.**, **Abdulla, E**., Cribbie, R. A. (2010). Quantitative methodology research: Is it on psychologists’ reading lists? *Tutorial in Quantitative Methods for Psychology, 6,* 53-60.

Irvine, J., **Stanley, J.**, **Ong, L.**, Cribbie, R. A., Ritvo, P., Katz, J., Dorian, P., O’Donnell, S., Harris, L., Cameron, D., Hill, A., Newman, D., Johnson, S. N., Bilanovic, A., & Sears, S. F. (2010). Acceptability of a cognitive behavior therapy intervention to implantable cardioverter defibrillator recipients. *Journal of Cognitive Psychotherapy, 24,* 246-264.

Cribbie, R. A., Arpin-Cribbie, C. A., & Gruman, J. A. (2010). Equivalence tests for one-way independent groups designs. *Journal of Experimental Education, 78, 1-13*.

**Nissim, R.**, Flora, D. B., Cribbie, R. A., Zimmermann, C., Gagliese, L., & Rodin, G. (2010). Factor structure of the Beck Hopelessness Scale in individuals with advanced cancer. *Psycho-oncology, 19,* 255-263.

**Mills, L.**, Cribbie, R. A., & Luh, W.-M. (2009). A heteroscedastic, rank-based approach for analyzing 2 x 2 independent groups designs. *Journal of Modern Applied Statistical Methods, 8,* 322-336.

Cribbie, R. A., & Arpin-Cribbie, C. A. (2009). Evaluating clinical significance through equivalence testing: Extending the normative comparisons approach. *Psychotherapy Research, 19*, 677-686.

**Sturman, E. D.**, Cribbie, R. A., & Flett, G. L. (2009). The average distance between item values: A novel approach for estimating internal consistency. *Journal of Psychoeducational Assessment, 27,* 409-420.

**Golinski, C.** & Cribbie, R. A. (2009). The expanding role of quantitative methodologists in advancing psychology. *Canadian Psychology, 50,* 83-90.

Arpin-Cribbie, C. A., Irvine, J., Ritvo, P., Cribbie, R. A., Flett, G. L., & Hewitt, P. (2008). Perfectionism and psychological distress: A modeling approach to understanding their therapeutic relationship. *Journal of Rational-Emotive and Cognitive-Behavioral Therapy, 26,* 151-167*.*

**Williams, T.**, Connolly, J., & Cribbie, R. A.(2008). Patterns of sexual and dating activities of young canadian adolescents. *Journal of Research of Adolescence, 18,* 145-172.

Cribbie, R. A., Wilcox, R., **Bewell, C.** & Keselman, H. J. (2007). Tests for treatment group equality when data are nonnormal and heteroscedastic. *Journal of Modern Applied Statistical Methods, 6,* 117-132.

Arpin-Cribbie, C. A., & Cribbie, R. A. (2007). Psychological correlates of fatigue: Examining

 depression, perfectionism, and automatic negative thoughts. *Personality and Individual*

 *Differences, 43,* 1310-1320*.*

Gruman, J., Cribbie, R. A., & Arpin-Cribbie, C. A. (2007). The effects of heteroscedasticity on

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**Friedlander, L.**, Reid, G., Shupak, N. & Cribbie, R. A. (2007). Social support, self-esteem, and

 stress as predictors of adjustment to university among first year undergraduates. *College*

 *Student Development, 48,* 259-274.

Cribbie, R. A. (2007). Multiplicity control in structural equation modeling. *Structural Equation Modeling: An Interdisciplinary Journal, 14*, 98-112.

**Ong, L.**, Irvine, J., Nolan, R., Cribbie, R., Harris, L., Newman, D., Mangat, I. & Dorian, P. (2006). Gender differences and quality of life in atrial fibrillation: The mediating role of depression. *Journal of Psychosomatic Research, 61,* 769-774.

**Ong, L.**, Cribbie, R., Harris, L., Dorian, P., Newman, D., Mangat, I., Nolan, R., & Irvine, J. (2006). Psychological correlates of quality of life in atrial fibrillation. *Quality of Life Research, 15,* 1323-1333*.*

Cribbie, R. A. & Jamieson, J. (2004). Decreases in posttest variance and the measurement of

 change. *Methods of Psychological Research Online, 9,* 37-55.

Cribbie, R. A., Gruman, J. & Arpin-Cribbie, C. (2004). Recommendations for applying tests of equivalence. *Journal of Clinical Psychology, 60,* 1-10.

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**Santarcangelo, M.**, Cribbie, R. A. & Ebesu Hubbard, A. S. (2004). Improving accuracy of veracity judgment through cue training. *Perceptual and Motor Skills, 98,* 1039-1048.

Cribbie, R. A. (2003). Pairwise multiple comparisons: New yardstick, new results. *Journal of Experimental Education, 71,* 251-265.

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 nonparametric and model comparison approaches to pairwise comparisons. *Educational*

 *and Psychological Measurement, 63,* 615-635.

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Keselman, H. J., Cribbie, R. A. & Holland, B. (2002). Controlling the rate of Type I error over a large set of statistical tests. *British Journal of Mathematical and Statistical Psychology, 55*, 27-39.

Murray, R. P., Istvan, J. A., Cribbie, R. A. & Barnes, G. E. (2002). Longitudinal analysis of the relationship between changes in smoking and changes in drinking in a community sample: The Winnipeg Health and Drinking Survey. *Health Psychology, 21*, 237-243.

Cribbie, R. A. & Jamieson, J. (2000). Structural equation models and the regression bias for measuring correlates of change. *Educational and Psychological Measurement, 60*, 893-907.

Wilcox, R. R., Keselman, H. J., Muska, J. & Cribbie, R. (2000). Repeated measures ANOVA: Some new results on comparing trimmed means and means. *British Journal of Mathematical and Statistical Psychology, 53*, 69-82.

Cribbie, R. A. (2000). Evaluating the importance of individual parameters in structural equation modeling: The need for Type I error control. *Personality and Individual Differences, 29*, 567-577.

Keselman, H. J., Cribbie, R. & Holland, B. (1999). The pairwise multiple comparison multiplicity problem: An alternative approach to familywise and comparisonwise Type I error control. *Psychological Methods, 4*, 58-69.

Keselman, H. J., Huberty, C. J., Lix, L. M., Olejnik, S., Cribbie, R., Donahue, B., Kowalchuk, R. K., Lowman, L. L., Petoskey, M. D., Keselman, J. C. & Levin, J. R. (1998). Statistical practices of educational researchers: An analysis of their ANOVA, MANOVA, and ANCOVA analyses. *Review of Educational Research, 68*, 350-386.

Keselman, H. J., Cribbie, R. & Zumbo, B. D. (1997). Specialized tests for detecting treatment effects in the two-sample problem. *Journal of Experimental Education, 65*, 355-366.

Book Chapters:

Beribisky, N. & Cribbie, R. A. (in press). *Multiplicity and false positives.* In B. B. Frey (Ed.), Encyclopedia of Research Design (2nd Ed.). Thousand Oaks, CA: Sage Publications.

Farmus, L. & Cribbie, R. A. (in press). *Equivalence testing.* In B. B. Frey (Ed.), Encyclopedia of Research Design (2nd Ed.). Thousand Oaks, CA: Sage Publications.

Cribbie, R. A. & Klockars, A. J. (2018). *Analysis of variance: Between groups designs*. In G. R. Hancock, L. M. Stapleton, R. O. Mueller (Eds.), The Reviewer’s Guide to Quantitative Methods in the Social Sciences (2nd Ed.). New York: Routledge

Cribbie, R. A. (2010). *Recent Advances in multiple comparisons*. In N. Salkind (ed.), Encyclopedia of Research Design. Thousand Oaks, CA: Sage Publications.

Keselman, H. J., Holland, B., & Cribbie, R. A. (2005). *Multiple comparison procedures.* In B. S. Everitt & D. C. Howell (eds.), Encyclopedia of statistics in behavioral science (Volume 3, 1309-1325). UK: Wiley.

Pedagogical Materials Published:

Buskist, W. & Cribbie, R. A. (1999). Test item file. To accompany, *Psychology: The Science of Behavior (Canadian Edition)*, by N. R. Carlson, W. Buskist, M. E. Enzle & C. D. Heth. Scarborough, Ontario: Allyn & Bacon.

Papers Submitted for Publication:

Tajik-Parvinchi, D., Farmus, L., Tablon-Modica1, P., Cribbie, R. A., Weiss, J. A. The role of

cognitive control and emotion regulation in predicting mental health problems in children with neurodevelopmental disorders. *Child: Care, Health and Development.*

Martinez Gutierrez, N. & Cribbie, R. A. Incidence and interpretation of statistical suppression

in psychological research. *Canadian Journal of Behavioral Sciences.*

Beribisky, N., Alter, U., & Cribbie, R. A. A multi-faceted mess: A review of statistical power analysis in psychology journal articles. *Meta-Psychology.*

Farmus, L., Beribisky, N., Alter, U., Martinez Gutierrez, N., Panzarella, E., & Cribbie, R. A.

 Effect size reporting and interpretation in social-personality research. *Current Psychology.*

Panzarella, E., Beribisky, N., & Cribbie, R. A. Denouncing the use of field-specific

effect size distributions to inform magnitude. *PeerJ.*

Conference Presentations (Refereed):

Farmus, L. & Cribbie, R. A. (2021, June). *An equivalence test for normality.* Paper presented at

 the Annual Meeting of the Canadian Psychological Association, Online.

Beribisky, N. & Cribbie, R. A. (2021, June). *Evaluating the performance of equivalence testing fit*

 *measures in structural equation modeling.* Paper presented at

 the Annual Meeting of the Canadian Psychological Association, Online.

Martinez-Gutierrez, N. & Cribbie, R. A. (2021, June). A *novel effect size measure for equivalence*

*testing*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Online.

Beribisky, N., Mara, C., & Cribbie, R. A. (2021, May). *Using equivalence testing to evaluate*

*substantial mediation.* Poster presented at the Annual Meeting of the Association for Psychological Science, Online.

Cribbie, R. A. (2021, May). *Are you teaching your students fairy tales about normality and*

*homoscedasticity? Introduce robust statistics instead.* Paper presented at the Teaching Statistics in Psychology conference, online.

Farmus, L., Rotundi, M., & Cribbie, R. A. (2021, May).

Peters, K., O’Hagan, F., & Cribbie, R. A. (2020, May). *Implementing the “new statistics”: What,*

*when, where, why and how?* Paper to presented at the Annual Meeting of the Canadian Psychological Association, Montreal, QC. [Cancelled due to Covid-19]

Farmus, L. Alter, U., Beribisky, N., Martinez Gutierrez, N., Panzarella, E., & Cribbie, R. A.

(2020, May). *Adherence to effect size reporting in current psychological research.* Paper presented at the Annual Meeting of the Canadian Psychological Association, Online (due to Covid-19).

Panzarella, E., Beribisky, N., & Cribbie, R. A. (2020, May). *Denouncing the use of field-specific*

*effect size distributions to inform magnitude.* Poster presented at the Annual Meeting of the Canadian Psychological Association, Online (due to Covid-19).

Beribisky, N., & Cribbie, R. A. (2020, May). *Comparing sample planning strategies: Moving*

*beyond traditional power analysis in research.* Paper presented at the Annual Meeting of the Canadian Psychological Association, Online (due to Covid-19).

Martinez Gutierrez, N., & Cribbie, R. A. (2020, May). *Perceptions of magnitude in visual*

*representations of effect sizes.* Poster presented at the Annual Meeting of the Canadian Psychological Association, Online (due to Covid-19).

Rosenbloom, B. N., Pagé, G., Isaac, L., Campbell, F., Stinson, J., Cribbie, R. A., & Katz, J.

 (2020, May). *Fear of movement or (re)injury in children and adolescents undergoing*

*major surgery: Validation of the Tampa Scale for Kinesiophobia.* Poster presented at the 2020 Annual Meeting of the Canadian Pain Society, Calgary, AB. [Cancelled due to Covid-19]

Beribisky, N., & Cribbie, R. A. (2019, August). *How do we judge associations among variables? A mixed methods analysis.* Poster presented at the 2019 Annual Meeting of the American

 Psychological Association, Chicago, IL.

Tajik-Parvinchi, D. J., Farmus, L., Cribbie, R. A., Weiss, J. A. (2019, August). *Clinical and Parental Predictors of Improved Emotion Regulation Following Cognitive Behaviour Therapy in Children with Autism*. The World Congress of the International Association for the Scientific Study of Intellectual and Developmental Disabilities, Glasgow, Scotland.

Luong, R., & Cribbie, R. A. (2019, July). *Replicability in psychology: The problem of familywise
 Type II error*. Paper presented at the 2019 International Meeting of the Psychometric
 Society, Santiago, Chile.

Beribisky, N. & Cribbie, R. A. (2019, June). *The use of equivalence testing and precision based*

*power analysis in brain and cognitive science.* Paper presented at the 2019 Annual Meeting of the Canadian Psychological Association, Halifax, NS.

Beribisky, N., Alter, U., & Cribbie, R. A. (2019, June). *Review of traditional a priori power analysis reporting.* Paper presented at the 2019 Annual Meeting of the Canadian Psychological Association, Halifax, NS.

Farmus, L., Martinez-Gutierrez, N., & Cribbie, R. A. (2019, June). *Incidence and interpretation of statistical suppression in psychological research.* Paper presented at the 2019 Annual Meeting of the Canadian Psychological Association, Halifax, NS.

Farmus, L. & Cribbie, R. A. (2019, June). *Current practices and modern methodological tools:*

*Effect sizes and robust statistics.* Paper presented at the 2019 Annual Meeting of the Canadian Psychological Association, Halifax, NS.

Farmus, L., Tajik-Parvinchi, D., Weiss, J. & Cribbie, R. A. (2019, May). Contextualiznig statistical suppression within pretest-posttest designs. Poster presented at the Interdisciplinary Conference in Psychology (Ottawa).

Farmus, L., Hunter, A., Beribisky, N., & Cribbie, R. A. (2018, June). *Multiplicity control vs*

*replication: Making an obvious choice even more obvious*. Paper presented at the International Congress of Applied Psychology, Montreal, Canada.

Beribisky, N., Farmus, L., & Cribbie, R. (2018, June). *Visualizing associations among variables: Equivalence and difference-based perspectives.* Paper presented at the International

 Congress of Applied Psychology, Montreal, QC.

Beribisky, N., Alter, U., & Cribbie, R. (2018, May). *Power analyses: A multifaceted mess*. Poster presented at the Annual Meeting of the Association for Psychological Science, San

 Francisco, CA.

Farmus, L., & Cribbie, R. A. (2018, May). *Suppression effects in pre-post designs: Elucidating the link to regression artefacts*. Poster presented at the Annual Meeting of the Association

 for Psychological Science, San Francisco, CA.

Farmus, L., Arpin-Cribbie, C. A., & Cribbie, R. A. (2017, June). *Continuous predictors of pretest-posttest change: Highlighting the impact of the regression artefact*. Poster presented at the Annual Meeting of the Canadian Psychological Association, Toronto, ON.

Hoyda, J., Counsell, A., & Cribbie, R. A. (2017, June). *Traditional and Bayesian approaches for testing mean equivalence and a lack of association.* Poster presented at the Annual Meeting of the Canadian Psychological Association, Toronto, ON.

Counsell, A. & Cribbie, R. A. (2017, May). *Equivalence testing approaches to measurement invariance.* Poster presented at the Modern Modeling Methods conference, Storrs, CT.

Davidson, H. & Cribbie, R. A. (2017, May). *A more powerful familywise error controlling procedure for evaluating mean equivalence.* Poster presented at the Modern Modeling Methods conference, Storrs, CT.

Beribisky, N., Davidson, H., & Cribbie, R. A. (2017, June). *Individual perceptions of a minimally meaningful difference.* Poster presented at the Annual Meeting of the Canadian Psychological Association, Toronto, ON.

Hunter, A. & Cribbie, R. A. (2017, June*). Multiplicity control in psychological research: Is there a simple solution?* Paper presented at the Annual Meeting of the Canadian Psychological Association, Toronto, ON.

Counsell, A., Beribisky, N., Farmus, L., & Cribbie, R. A. (2017, May). *Positive attitudes toward using R in psychology statistics courses: Differences between graduate and undergraduate students.* Poster presented at the Annual Meeting of the Association for Psychological Science, Boston, MA.

Davidson, H., Beribisky, N., Farmus, L., & Cribbie, R. A. (2017, February). *The use of difference-based tests for hypotheses of a lack of association in social and personality psychology.* Poster presented at the Annual Meeting of the Society for Personality and Social Psychology, San Antonio, TX.

Shishkina, T. & Cribbie, R. A. (2016, June). *Testing for a lack of relationship among two categorical variables.* Poster presented at the Annual Meeting of the Canadian Psychological Association, Victoria, BC.

Jabbari, Y. & Cribbie, R. A. (2016, June). *Negligible interaction test for continuous predictors.* Poster presented at the Annual Meeting of the Canadian Psychological Association, Victoria, BC.

Counsell, A. & Cribbie, R. A. (2016, June). *Attitudes towards statistics and statistical software in psychology: Implications for teaching and student success.* Paper presented at the Annual Meeting of the Canadian Psychological Association, Victoria, BC.

Davidson, H. & Cribbie, R. A. (2016, June)*.* *Statistical software use at Canadian universities.* Paper presented at the Annual Meeting of the Canadian Psychological Association, Victoria, BC.

Davidson, H. & Cribbie, R. A. (2016, May). *Recommendations for establishing equivalence bounds.* Poster presented at the Annual Convention of the Association for Psychological Science, Chicago, IL.

Cribbie, R. A., Arpin-Cribbie, C. A., Venditelli, R., & Tucciarone, E. (2015, June). *Evaluating group level clinical significance.* Paper presented at the Annual Convention of the Canadian Psychological Association, Ottawa, ON.

Ng, V. & Cribbie, R. A. (2015, June). *The generalized linear model for continuous outcomes.* Paper presented at the Annual Convention of the Canadian Psychological Association, Ottawa, ON.

Cila, J., Cribbie, R. A., Lalonde, R., & Lou, E. (2015, June). *Overcoming difference: Highlighting similarities in cross-cultural research.* Paper presented at the Annual Convention of the Canadian Psychological Association, Ottawa, ON.

Ng, V. & Cribbie, R. A. (2015, May). *Comparing the gamma generalized linear model, log transformation, and Yuen-Welch for power and generalizability.* Poster presented at the Modern Modeling Methods conference, Storrs, CT.

Counsell, A., Cribbie, R. A., & Ng, V. (2015, May). *Comparing traditional and Bayesian approaches for testing mean equivalence.* Poster presented at the Modern Modeling Methods conference, Storrs, CT.

Roseborough, J. E. W., Wiesenthal, D. L., Cribbie, R. A., & Flett, G. L. (2015, May). *Justice- related mediators of the relationship between unjust world beliefs and driving anger*. Paper presented at the 25th Canadian Association of Road Safety Professionals Conference, Ottawa, Ontario.

Jennings, M., & Cribbie, R. A. (2014, June). *Comparing pre-post change across groups:*

 *Guidelines for choosing between difference scores, ANCOVA, and residual change scores.* Poster presented at the Annual Convention of the Canadian Psychological Association, Vancouver, BC.

Ng, V. & Cribbie, R. (2014, June). *Equivalence testing with repeated measures*. Paper presented at the 75th Annual Convention of the Canadian Psychological Association, Vancouver, BC.

Counsell, A., Ragoonanan, C., & Cribbie, R. A. (2014, May). *Evaluating a test for negligible interaction in factorial independent groups designs*. Poster Presented at the Modern Modeling Methods Conference, Storrs, CT.

Counsell, A. L., & Cribbie, R. A. (2013, August). [*Group change with nontrivial pretest differences: Investigating the errors in variables method*](http://forms.apa.org/convention/viewabstract.cfm?id=132257). Poster presented at the Annual Meeting of the American Psychological Association, Honolulu, HI.

Smith, C. E. & Cribbie, R. A. (2013, June). *Factorial ANOVA with unbalanced data: Differences and recommendations for Type I, II and III sums of squares*. Paper presented at the 74th Annual Convention of the Canadian Psychological Association, Quebec City, QC.

Counsell, A. L., & Cribbie, R. A. (2013, June). *Equivalence Testing: Extending Methods to the Similarity of Dependent Correlations.* Paper presented at the 74th Annual Convention of the Canadian Psychological Association, Quebec City, QC.

Counsell, A., Sigal, M., Chalmers, P., & Cribbie, R. A. (2013, May). *Extending the Robust Means Modeling Framework.* Paper Presented at the Modern Modeling Methods Conference, Storrs, CT.

Mara, C. & Cribbie, R. A. (2012, June). An equivalence-based approach for testing homogeneity of variances. Paper presented at the 2012 Annual Meeting of the Canadian Psychological Association, Halifax, NS.

Roseborough, J., Wiesenthal, D. L., Cribbie, R., & Flett, G. (2011, June). Narcissism and the

 belief in an unjust world: The influence of personality on perceptions of injustice, driving

 anger, and aggressive driving. Poster presented at the 2011 Annual Meeting of the

 Canadian Psychological Association, Toronto, ON.

Allan, T. & Cribbie, R. A. (2011, June). Evaluating the equivalence or distinctiveness of psychological treatments: A review of methodological practices. Poster presented at the 2011 Annual Meeting of the Canadian Psychological Association, Toronto, ON.

Koh, A. & Cribbie, R. A. (2011, June). Robust tests of equivalence for K independent groups. Poster presented at the 2011 Annual Meeting of the Canadian Psychological Association, Toronto, ON.

van Wieringen, K. & Cribbie, R. A. (2011, June). Robust normative comparison tests for evaluating clinical significance. Poster presented at the 2011 Annual Meeting of the Canadian Psychological Association, Toronto, ON.

Roseborough, J., Wiesenthal, D. L., Cribbie, R. A., & Flett, G. L. (2011, May). The Belief in an Unjust World and Narcissism - The Influence of Personality on Perceptions of Injustice, Driving Anger, and Aggressive Driving. Paper presented at the 2011 Canadian Multidisciplinary Road Safety Convention, Halifax, NS.

Smith, C. E. & Cribbie, R. A. (2011, April). Significance testing in structural equation modeling: Toward incorporating parameter dependencies into procedures. Paper presented at the 2011 Annual Meeting of the American Educational Research Association, New Orleans, LA.

Mara, C., Cribbie, R. A., Flora, D., LaBrish, C., Mills, L., & Fiksenbaum, L. (2011, April). An improved model for evaluating change in randomized pretest, posttest, follow-up designs. Poster presented at the 2011 Annual Meeting of the American Educational Research Association, New Orleans, LA.

Cribbie, R. A., Nasiakos, G., & Arpin-Cribbie, C. A. (2010, June). Equivalence-based measures of clinical significance: Assessing treatments for depression. Paper presented at the 2010 Annual Meeting of the Canadian Psychological Association, Winnipeg, MB.

Mara, C., Cribbie, R. A., & Paskarou, V. (2010, June). Mediation analysis: Do we have it all backwards? Paper presented at the 2010 Annual Meeting of the Canadian Psychological Association, Winnipeg, MB.

Marjanovic, Z., Struthers, C. W., & Cribbie, R. A. (2009, August). Interitem standard deviation: Discriminating between systematic and random data. Poster presented at the 2009 Annual Meeting of the American Psychological Association, Toronto, ON.

Goertzen, J. & Cribbie, R. A. (2009, August). Detecting a lack of association: A summary of the issues. Poster presented at the 2009 Annual Meeting of the American Psychological Association, Toronto, ON.

Mara, C. & Cribbie, R. A. (2009, August). Equivalence tests for paired samples designs. Poster presented at the 2009 Annual Meeting of the American Psychological Association, Toronto, ON.

Mills, L., & Cribbie, R. A. (2009, August). Testing for mean differences when distribution shapes are heterogeneous. Poster presented at the 2009 Annual Meeting of the American Psychological Association, Toronto, ON.

Fiksenbaum, L. M., Cribbie, R. A., Keselman, H. J. & Wilcox, R. R. (2009, August). Parametric bootstrap procedure: A viable option under distribution nonnormality? Poster presented at the 2009 Annual Meeting of the American Psychological Association, Toronto, ON.

Sturman, E. C., Cribbie, R. A., & Flett, G. L. (2009, August). A novel measure of internal consistency: The average distance. Poster presented at the 2009 Annual Meeting of the American Psychological Association, Toronto, ON.

Cribbie, R. A., Backs-Dermott, B., Arpin-Cribbie, C. A., Hamilton, K., Macrodimitris, S., & Mothersill, K. (2009, June). Assessing clinical significance: New approaches employing equivalence testing. Poster presented at the 2009 Annual Meeting of the Canadian Psychological Association, Montreal, QC.

Marjanovic, Z., Struthers, W., & Cribbie, R. A. (February, 2009). Interitem standard deviation (ISD): A statistical index for identifying random responders in questionnaire data. Paper to be presented at the 2009 Annual Meeting of the Society for Personality and Social Psychology, Tampa, Fl.

Ong, L., Cribbie, R., Johnson, S., Bilanovic, A., Stanley, J., Ritvo, P. Newman, D., Harris, L., Sears, S., & Irvine, J. (April, 2009). Do dispositional factors moderate adjustment to ICD therapy? Paper to be presented at the 2009 Annual Meeting of the Society of Behavioral Medicine. Montreal, PQ.

Mills, L, Abdulla, E., & Cribbie, R. A. (June, 2008). Quantitative methodology research: Does it make it on the reading list of applied psychologists? Paper presented at the 2008 Annual Meeting of the Canadian Psychological Association, Halifax, N.S.

Cribbie, R. A., Jamieson, J. & Mills, L. (June, 2008). *Investigating changes in behaviour over two time points: A perplexing task*. Paper presented at the 2008 Annual Meeting of the Canadian Psychological Association, Halifax, N.S.

Cribbie, R. A., Arpin-Cribbie, C. A., & Gruman, J. (March, 2008). *Equivalence tests with more than two independent groups.* Paper presented at the 2008 Annual Meeting of the American Educational Research Association, New York, NY.

Johnson, S. N., Bilanovic, A., Ong, L., Stanley, J., Ritvo, P., Dorian, P., Harris, L., Sears, S., Cribbie, R. A., & Irvine, J. (March, 2008). *Changing Treatment Expectancy in an ICD patient Population.*  Paper presented at the 66th Annual Scientific Meeting of the American Psychosomatic Society, Baltimore, MD.

Bilanovic, A., Irvine, J., Johnson, S., Ong, J., Stanley, J., Ritvo, P., Harris, L., Dorian, P., Sears, S., Cribbie, R.A., & Katz, J. (March, 2008). *Reduced Pain Intensity Ratings of ICD Discharge in Patients with PTSD Symptoms*. Paper presented at the 66th Annual Scientific Meeting of the American Psychosomatic Society, Baltimore, MD.

Mills, L. & Cribbie, R. A. (June, 2007). *Assumption violation in independent groups factorial designs.*  Paper presented at the 2007 Annual Meeting of the Canadian Psychological Association, Ottawa, ON.

Cribbie, R. A., Arpin-Cribbie, C. A. & Gruman, J. (June, 2007). *Equivalence tests in psychological research.* Paper presented at the 2007 Annual Meeting of the Canadian Psychological Association, Ottawa, ON.

Cribbie, R. A., Arpin-Cribbie, C. A. & Gruman, J. (February, 2007). *Equivalence tests for one-way independent groups designs*. Paper presented at the 2007 Annual Meeting of the Eastern Educational Research Association, Clearwater, Fl.

Williams, T., Connolly, J. A., Taradash, A., & Cribbie, R. (March, 2006). *Normative patterns and longitudinal predictors of light and heavy sexuality among young Canadian adolescents*. Poster presented at the 2006 Annual Meeting of the Society for Research on Adolescence, San Francisco, CA.

Cribbie, R. A. (June, 2006). *Using expected p-value to compare tests of equivalence.* Poster presented at the 2006 Annual Meeting of the Canadian Psychological Association, Calgary, AB.

Cribbie, R. A., Arpin-Cribbie, C. A. & Gruman, J. (April, 2006). *Effects of variance heterogeneity on tests of equivalence.* Paper presented at the 2006 Annual Meeting of the American Educational Research Association, San Francisco, CA.

Johnson, S., Ong, L., Stanley, J, Ritvo, P., Dorian, P., Newman, D., Harris, L., Sears, S., Cribbie, R., & Irvine, J. (March, 2006). *Demographic and psychsocial factors affect treatment expectations in a cardiac population.* Paper to be presented at the 2006 Annual Meeting of the American Psychosomatic Society, Denver, CO.

Arpin-Cribbie, C. A. & Cribbie, R. A. (June, 2005). *Equivalence tests under sample size and variance heterogeneity.* Poster resented at the 2005 Annual Meeting of the Canadian Psychological Association.

Cribbie, R. A. (June, 2005). *The state of quantitative methodology in Canadian psychology departments.* Poster resented at the 2005 Annual Meeting of the Canadian Psychological Association.

Cribbie, R. A. & Jamieson, J. (April 2005). *Identifying Predictors of Change When Baseline*

*Differences are Combined with Changes in Posttest Variance*. Paper presented at the 2005 Annual Meeting of the American Educational Research Association, Montreal, PQ.

Ong, L., Irvine, J., Cribbie, R., Harris, L., Dorian, P., Newman, D., & Nolan, R. (March, 2004). *Gender, Depression, and Quality of Life in Atrial Fibrillation*. Poster presented at the 2004 Annual Meeting of the American Psychosomatic Society, Orlando, Fl.

Cribbie, R. A. (June, 2004). *Statistical analysis in DNA Microarray Research.* Poster presented at the 2004 Annual Meeting of the Canadian Psychological Association, St. John’s, NFLD.

Cribbie, R. A. (April, 2004). *Multiplicity control in structural equation modeling.* Paper presented at the 2004 Annual Meeting of the American Educational Research Association, San Diego, CA.

Cribbie, R. A. (June, 2002). *Pairwise multiple comparisons: New yardstick, new results*. Poster presented at the 2002 Annual Meeting of the Canadian Psychological Association, Vancouver, BC.

Cribbie, R. A. & Keselman, H. J. (April, 2002). *Welch test on ranks: A robust alternative for nonnormal, heterogeneous data?* Paper presented at the 2002 Annual Meeting of the American Educational Research Association, New Orleans, LA.

Cribbie, R. A. & Keselman, H. J. (April, 2001). *Pairwise multiple comparison procedures when data are nonnormal*. Paper presented at the 2001 Annual Meeting of the American Educational Research Association, Seattle, WA.

Cribbie, R. A. (June, 2000). *Pairwise multiple comparison procedures: Is it time to abandon Tukey?* Poster presented at the 2000 Annual Meeting of the Canadian Psychological Association, Ottawa, ON.

Cribbie, R. A. & Keselman, H. J. (April, 2000). *A power comparison of pairwise multiple comparison procedures: A model comparison approach versus stepwise procedures*. Paper presented at the 2000 Annual Meeting of the American Educational Research Association, New Orleans, LO.

Hayman, C. A. G., Fugelsang, J, Cofell, J., & Cribbie, R. (July, 2000). *The role of source memory in setting the criteria for signal decision process*. Paper presented at the 2000 Joint Meeting of the Experimental Psychology Society and the Brain, Behavior and Cognitive Sciences, Cambridge, MA.

Cribbie, R. A., Holland, B. & Keselman, H. J. (April, 1999). *Multiple comparison procedures for large family sizes: Controlling the probability of at least k or more Type I errors*. Paper presented at the 1999 Annual Meeting of the American Educational Research Association, Montreal, PQ.

Hayman, C. A. G. & Cribbie, R. A. (July, 1998). *The effect of semantic representations on episodic memory for unrelated sensory information*. Paper presented at the 1998 Annual Meeting of the Canadian Society for Brain, Behavior and Cognitive Science, Montreal, PQ.

Cribbie, R. A. (June, 1998). *Controlling Type I errors in structural equation modeling with latent variables*. Poster presented at the 1998 Annual Meeting of the Canadian Psychological Association, Edmonton, AB.

Cribbie, R. A., Keselman, H. J. & Holland, B. (April, 1998). *The pairwise multiple comparison multiplicity problem: An alternative approach to familywise/comparisonwise Type I error control*. Paper presented at the 1998 Annual Meeting of the American Educational Research Association, San Diego, CA.

Cribbie, R. A. & Jamieson, J. (June, 1997). *The measurement of change using structural equation modeling*. Poster presented at the 1997 Annual Meeting of the Canadian Psychological Association, Toronto, ON.

Cribbie, R. A., Keselman, H. J. & Zumbo, B. D. (March, 1997). *Specialized tests for detecting treatment effects in the two-sample problem*. Paper presented at the 1997 Annual Meeting of the American Educational Research Association, Chicago, IL.

Lix, L. M., Cribbie, R. A. & Keselman, H. J. (June, 1996). *Content analysis of completely*

 *randomized factorial designs in educational research*. Paper presented at the 1996

 Annual Meeting of the Psychometric Society, Banff, AB.

Academic Honours and Awards

Date Award Sponsor

2001 Excellence in Research (Dissertation) Canadian Psychological Association

1998 Vineberg Award for Outstanding University of Manitoba

 Graduate Student Research

Supervised Student Awards:

Date Student Award Sponsor

2020 Naomi Martinez Michael Friendly Award Quantitative Methods

 Gutierrez for Best Research in Program, Dep’t of Psychology

 Quantitative Methods

2019 Linda Farmus Student Presentation Award Quantitative Methods Section

 Canadian Psychological

 Association

2019 Linda Farmus Michael Friendly Award Quantitative Methods

 for Best Research in Program, Dep’t of Psychology

 Quantitative Methods

2019 Nataly Beribisky People’s Choice Winner Canadian Association for

 at the Three Minute Thesis Graduate Studies

 (3MT) Competition at

 York University

2018 Nataly Beribisky Student Presentation Award Quantitative Methods Section

 Canadian Psychological

 Association

2016 Alyssa Counsell Student Presentation Award Quantitative Methods Section

 Canadian Psychological

 Association

2014 Laura Mills Michael Friendly Award Quantitative Methods

 for Best Research in Program, Dep’t of Psychology

 Quantitative Methods

2014 Megan Jennings W. B. Templeton Award Department of Psychology

 for Best Honours Thesis York University

2013 Alyssa Counsell Michael Friendly Award Quantitative Methods

 for Best Research in Program, Dep’t of Psychology

 Quantitative Methods

2011-2012 Haykaz Mangardich Poster Prize for Best Department of Psychology

 Presentation of Honours York University

 Thesis

Funding

Mackinnon … SSHRC IDG

Peters … IDG

Type of Funding: Research Grant (Co-Investigator)

Title: Effect Sizes in Psychology: Expert Perspectives

Granting Agency: Social Sciences and Humanities Research Council of Canada

Dates: 2021-2023

Amount: $6890

Type of Funding: Research Grant (Principal Investigator)

Title: Advanced Applications of Equivalence Testing: Bayesian and Frequentist Approaches

Granting Agency: Social Sciences and Humanities Research Council of Canada

Dates: 2016-2021

Amount: $245620

Type of Funding: Research Grant (Principal Investigator)

Title: Applications of Equivalence Testing

Granting Agency: Social Sciences and Humanities Research Council of Canada

Dates: 2012-2016

Amount: $216720

Type of Funding: Research Grant (Statistical Consultant)

Title: Improving Access to Internet Cognitive Behaviour Therapy for Depression and Anxiety: Overcoming Barriers and Fostering Innovation

Granting Agency: Canadian Institutes of Health Research

Dates: 2013-2017

Amount: $708000

Type of Funding: Research Grant (Principal Investigator)

Title: Enhancing Statistical Software for Structural Equation Modeling

Granting Agency: Faculty of Health, York University

Dates: 2010-2012

Amount: $3000

Type of Funding: Research Grant (Principal Investigator)

Title: Tests of Equivalence for Psychological Research

Granting Agency: Social Sciences and Humanities Research Council of Canada

Dates: 2009-2012

Amount: $74957

Type of Funding: Research Grant (Collaborator)

Title: The Healthy Coping Program for Maltreated Children

Granting Agency: Children’s Hospital of Eastern Ontario (CHEO)

Dates: 2008-2010

Amount: $150000

Type of Funding: Research Grant (Principal Investigator)

Title: Multiple Comparisons for One-way Tests of Equivalence

Granting Agency: Faculty of Health, York University

Dates: 2008-2010

Amount: $1550

Type of Funding: Research Grant (Principal Investigator)

Type of Funding: Teaching/Learning Grant

Title: Summer Program in Data Analysis

Granting Agency: Social Sciences and Humanities Research Council of Canada

Dates: 2008-2010

Amount: $150000

Type of Funding: Research Grant (Principle Investigator)

Title: Assumption violation in factorial ANOVA models: Improving Type I error control and power

Granting Agency: Social Sciences and Humanities Research Council of Canada (Small Grants)

Dates: 2006-2007

Amount: $2000

Type of Funding: Research Grant (Co-applicant)

Title: Psychological Support for Implantable Defibrillator Patients

Granting Agency: Canadian Institutes of Health Research

Dates: 2006-2008

Amount: $122687

Type of Funding: Teaching/Learning Grant

Title: Summer Program in Data Analysis

Granting Agency: Social Sciences and Humanities Research Council of Canada

Dates: 2006-2008

Amount: $150000

Type of Funding: Research Grant (Principal Investigator)

Title: Multiple Comparisons for Large Family Sizes

Granting Agency: Natural Sciences and Engineering Research Council of Canada

Dates: 2003-2008

Amount: $56000

Type of Funding: Research Grant (Principal Investigator)

 Title: Testing Strategies for Nonnormal, Heterogeneous Data

Granting Agency: Faculty of Arts, York University

Dates: 2003-2004

Amount: $2380

Type of Funding: Research Grant (Co-applicant)

Title: The Health Effects of Patterns of Alcohol Consumption

Granting Agency: Canadian Institutes of Health Research

Dates: 2003-2007

Amount: $214840

Type of Funding: Research Grant (Co-applicant)

Title: Psychological Support for Implantable Defibrillator Patients

Granting Agency: Canadian Institutes of Health Research

Dates: 2003-2006

Amount: $108124

Type of Funding: Research Grant (Principal Investigator)

Title: Assumption Violation in Analysis of Variance Models: A Review of the Data Analytic Practices of Researchers

Granting Agency: Social Sciences and Humanities Research Council of Canada (Small Grants)

Dates: 2002-2003

Amount: $1500

Type of Funding: Research Grant (Principal Investigator)

Title: Multiple Comparisons for Nonnormal Data

Granting Agency: Natural Sciences and Engineering Research Council of Canada

Dates: 2001-2003

Amount: $24000

Type of Funding: Research Grant (Principal Investigator)

Title: Welch Test on Ranks: A Robust Alternative for Nonnormal, Heterogeneous Data

Granting Agency: Faculty of Arts, York University

Dates: 2001-2002

Amount: $2500

Type of Funding: Research Grant (Principal Investigator)

Title: Tests of Equivalence: A Comparison of Equivalence and Nonequivalence Null Hypothesis Testing

Granting Agency: Social Sciences and Humanities Research Council of Canada (Small Grants)

Dates: 2000-2001

Amount: $2350

Contributions to the Profession

Manuscript Reviewing:

Advances in Methods and Practices in Psychological Science

American Educational Research Association (Div. D: Measurement and Research Methodology)

American Educational Research Association (Special Interest Group: Educational Statisticians)

Applied Psychological Measurement

Behavior Research Methods

British Journal of Mathematical and Statistical Psychology

Canadian Journal of Behavioral Science

Canadian Psychology

Child and Adolescent Psychology and Mental Health

Communications in Statistics: Simulation and Computation

Computational Statistics and Data Analysis

Computer Methods and Programs in Biomedicine

Computers in Human Behavior

Department of Environmental, Food and Rural Affairs - United Kingdom

Journal of Applied Statistics

Journal of Consulting and Clinical Psychology

Journal of Data Science

Journal of Experimental Education

Journal of Theoretical and Philosophical Psychology

Journal of Statistical Computation and Simulation

Methodology

Personality and Individual Differences

Psychological Methods

Social Psychological and Personality Science

Spanish Journal of Psychology

Structural Equation Modeling

The Quantitative Methods in Psychology

Research Grant Proposal Reviews

Social Sciences and Humanities Research Council of Canada (SSHRC)

Natural Sciences and Engineering Research Council of Canada (NSERC)

National Science Foundation (NSF) - Methodology, Measurement, and Statistics

Memberships in Professional Associations/Societies:

American Psychological Association (Division 5: Evaluation, Measurement and Statistics)

American Statistical Association

American Educational Research Association (Division D: Measurement and Research Methodology; Educational Statisticians Special Interest Group; Structural Equation Modeling Special Interest Group)

Canadian Psychological Association (Quantitative Methods Section)

Association for Psychological Science

Teaching

Undergraduate Courses:

Course Name Course Number

Introduction to Psychology (3 sections) 17.120 (U. of Manitoba)

Introduction to Statistical Methods (22 sections) 2020 (York U.), 2021/2510 (York U.)/17.225 (U. of Manitoba), 2022/3110 (York U.) / 17.226 (U. of Manitoba)

Introduction to Research Methods (2 sections) 2030 (York U.), 44.2102 (U. of Winnipeg)

Honours Thesis Coordinator (3 years)

Research-Based Courses

Honours Theses (completed): Maria Santarcangelo, Jason Wang, Julie Stringer, Denise Cheng, Michelle Chang, Artem Safarov, Eva Abdulla, George Nasiakos, Teresa Allan, Andy Koh, Katrina van Wieringen, Haykaz Mangardich, Chantal Ragoonanan, Megan Jennings, Tanja Shishkina, Yasaman Jabbari, Joseph Hoyda, Linda Farmus (Laurentian University, co-supervisor), Naomi Martinez Gutierrez

Honours Theses (current):

Independent Research (completed): Azadeh Shahidsaless, Marc Abramovitz, Michelle Chang, Eli Edell, Debra Lall, Caroline Golinski, George Nasiakos, Vadim Pascarou, Teresa Allan, Andy Koh (RAY), Rebecca Vendittelli (RAY), Haykaz Mangardich (RAY), Chantal Ragoonanan (RAY), Megan Jennings (RAY), Yasaman Jabbari (RAY), Nataly Beribisky (RAY), Naomi Martinez Gutierrez (RAY, 2017-2018); Naomi Martinez Gutierrez (RAY, 2018-2019); Udi Alter (2018-2019); Emily Panzarella (2018-2019), Emily Panzarella (RAY, 2019-2020)

Independent Research (current): Emily Panzarella

Graduate Independent Research (completed): Chi-man Gigi Luk, Laura Mills, Constance Mara (2), Cathy LaBrish, Sophie Macrodimitris, Carmen Bewell, Carrie Smith, Alyssa Counsell, Victoria Ng, Heather Davidson, Andrew Hunter

Graduate Independent Research (current): Christina Lapytskaya

Graduate Courses:

Course Name Course Number

Univariate Analysis (14 sections) 6130 (York U.)

Advanced Statistical Methods (1 section) 17.842 (U. of Manitoba)

Longitudinal Data Analysis (3 sections) 6170 (York U.)

Univariate Analysis I: ANOVA (2 section) 6131 (York U.)

Univariate Analysis II: Regression (2 sections) 6132 (York U.)

Structural Equation Modeling (2 sections – online) 6176 (York U.)

Multivariate Statistics (1 section) 6140 (York U.)

New Courses Developed (Undergraduate):

Course Name Course Number

Seminar in Statistics PSYC 4330

Intermediate Statistics II PSYC 3032

New Courses Developed (Graduate):

Course Name Course Number

Hierarchical Linear Modeling PSYC 6160\*

Longitudinal Data Analysis PSYC 6170\*

Psychometric Methods PSYC 6180\*

\* in conjunction with David Flora

Advanced Linear and Nonlinear Modeling PSYC 6145

Graduate Curriculum Development:

Proposed and developed the *Quantitative Methods Area* within the Department of Psychology (with David Flora) (2010)

Proposed and developed the *Quantitative Methods Diploma* with the Department of Psychology (with Jennifer Steele) (2015)

National Organization Development:

Proposed and developed the Quantitative Methods Section of the Canadian Psychological Association [with David Flora (York University), Donald Sharpe (University of Regina) and Dennis Jackson (University of Windsor)] (2009)

Graduate Supervision:

Masters Students - Primary Supervisor (Completed): Laura Mills, Constance Mara, Alyssa Counsell, Victoria Ng, Heather Davidson, Linda Farmus, Nataly Beribisky

Masters Students - Primary Supervisor (Current): Naomi Martinez-Gutierrez

Masters Thesis Committee (Current): Tarnpreet Virk

Masters Thesis Committee/Chair (Graduated): Chris Friesen, Robin Baker, Jessie Robertson, Lise

Rondeau, Lephoung Ong, Carmen Bewell, Azadeh Shahidsaless, Nikki Mann, Katherine McKenney, Fiona Schulte, Dina Buttu, Joshua Smith, Kristin Thornback, Andrew Miki, Laura Gates, Zarsheesh Divecha, Karina Zorzella, Paula DiNoto, Mark Adkins, Cathy Labrish, James Roseborough, Barry Dilouya, Saeid Chavoshi, Phil Chalmers, Joo Ann Lee, Heather Davidson, Alexis Strazds, Kristina Cordeiro, Chantelle Ivanski, Veerpal Bambrah, Daniel Chiacchia

PhD Students - Primary Supervisor (Current): Linda Farmus, Nataly Beribisky

PhD Students - Primary Supervisor (Graduated): Constance Mara, Laura Mills, Alyssa Counsell

PhD Minor Area Paper (Current): Stephanie Mears

PhD Minor Area Paper (Completed): Thomas Rhee, Stephanie McDermid, Rinat Nissim, Heather Schmidt, Colleen Bowers, Jason Goertzen, Zdravko Marjanovic, Laura Ball, Stephanie Jones, Karina Zorzella, Ian Davidson, Marina Rain, Joshua Guilfoyle, Iana Ianakieva

PhD Thesis Committee (Current): Lindsay Burns, Alexis Strazds, Carol Lee, Mark

 Adkins

PhD Thesis Committee/Chair/External (Completed): Tricia Williams, Michelle Bissonnette, Edward Sturman, Ali Taradash, Ernest Kwan, James Roseborough, Steven Howard, Laura Friedlander, Phil Chalmers, Tim Leonard, Deanna Singhal, Matthew Sigal, Lauren Campbell, Annalise D’Souza, Vanessa Foot, Saeid Chavoshi, Odette Weiss

Theses/Projects Supervised (Primary Supervisor in All Instances, Shortened Titles Utilized):

Name Project Title Dates

Christina Lapytskaia Effect sizes for robust tests 03/20 to Pres.

Naomi Martinez Effect sizes for equivalence testing 01/20 to Pres.

Gutierrez

Naomi Martinez Interpretations of effect size magnitude (visualizations) 09/19 to Pres.

Gutierrez

Emily Panzarella/ Effect size magnitude via discipline distributions 10/19 to Pres.

Nataly Beribisky

Emily Panzarella/ Effect size reporting in social psychology research 01/19 to Pres.

Nataly Beribisky/

Udi Alter/Linda

Farmus/Naomi

Martinez Gutierrez

Nataly Beribisky Equivalence-based goodness of fit tests in SEM 09/18 to Pres.

Linda Farmus Assessing the equivalence of distributions 09/18 to Pres.

Nataly Beribisky/ Quantifying a lack of relationship via visualizations 06/17 to Pres.

Linda Farmus/

Naomi Martinez

Gutierrez

Nataly Beribisky Precision-based sample size estimation 08/19 to 10/19

Linda Farmus Pretest-posttest designs and statistical suppression 09/17 to 09/19

Naomi Martinez Statistical suppression in psychological research 09/17 to 09/19

Gutierrez/

Linda Farmus

Nataly Beribisky/ Power analysis reporting in psychology 09/17 to 04/19

Udi Alter

Nataly Beribisky/ Multiplicity control and replication 08/17 to 07/18

Andrew Hunter/

Linda Farmus

Andrew Hunter Multiplicity and effect sizes 09/16 to 04/18

Alyssa Counsell Measurement equivalence via equivalence testing 06/16 to 04/18

Nataly Beribisky The (lack of) need for one-way equivalence tests. 09/17 to 12/17

Heather Davidson Stepwise multiple comparisons in equivalence testing 10/15 to 08/17

Nataly Beribisky/ Quantifying the presence of a relationship via graphics 08/16 to 07/17

Heather Davidson

Joseph Hoyda/ Bayesian approaches vs equivalence testing 07/16 to 09/17

Alyssa Counsell

Linda Farmus Issues with ANCOVA in pretest/posttest designs 07/16 to 06/17

Alyssa Counsell/ Robust means modeling 09/13 to 10/16

Phil Chalmers/

Matt Sigal

Heather Davidson/ Use of statistical software in departments of psychology 09/15 to 10/16

Yasman Jabbari

Jamie Kim Gatekeeper approaches for the one-way ANOVA 01/16 to 10/16

Alyssa Counsell/ Bayesian equivalence tests 10/14 to 09/16

Victoria Ng

Yasaman Jabbari Lack of interaction with continuous variables 09/15 to 09/16

Tanja Shishkina Lack of association among categorical variables 09/15 to 09/16

Victoria Ng One-way repeated measures tests of equivalence 09/13 to 08/16

Victoria Ng Generalized linear models for one-way ANOVA designs 09/13 to 08/16

Alyssa Counsell/ Robust lack of interaction tests 09/13 to 04/16

Chantal Ragoonanan

Victoria Ng Generalized linear models for clinical research 10/14 to 03/16

Carrie Smith Multiple comparison procedures for equivalence tests 04/13 to 06/14

Megan Jennings Measuring change over two time points 09/13 to 09/14

Alyssa Counsell Detecting differences in correlations via equivalence tests 10/11 to 09/14.

Constance Mara Assessing variance equality via equivalence tests 09/10 to 04/14.

Laura Mills Effects of dissimilar distribution shapes on parametric tests 09/07 to 04/14.

Haykaz Mangardich Empirical investigation of robust normative comparisons 09/11 to 11/13.

Erica Tucciarone/ Group-level based tests of clinical significance 10/11 to 07/13

Rebecca Venditteli

Chantal Ragoonanan Lack of interaction tests 09/12 to 04/13.

Constance Mara/ Assumption violation and generalized linear models 09/10 to 04/13

Cathy LaBrish

Andy Koh Equivalence/Nonequivalence Hypothesis Testing 09/10 to 03/13

Katrina Robust tests for normative comparisons 09/10 to 04/11

van Wieringen

Andy Koh One-way heteroscedastic test of equivalence 09/10 to 04/11

Teresa Allan Assessing equivalence hypotheses in clinical research 09/10 to 04/11

Constance Mara/ Longitudinal model for ‘Pre-Post-Follow’ up designs 05/10 to 09/10

Carrie Smith/

Laura Mills/

Lisa Fiksenbaum/

Cathy Labrish

Carrie Smith Types of Sums of Squares in Factorial ANOVA 02/10 to 10/13

Carrie Smith Multiplicity control in structural modeling 01/10 to 02/12

Teresa Allan Equivalence/lack of association in clinical research 01/10 to 04/10.

Constance Mara/ Assessing full mediation via equivalence testing 09/09 to 04/10

Vadim Pascarou

Stephanie Jones Novel approaches for analyzing repeated measures designs 09/08 to 09/10.

Lisa Fiksenbaum Improved Type I error control strategies for causal models 09/07 to 04/09

Constance Mara Assessing equivalence in repeated measures designs 09/08 to 02/10

George Nasiakos Assessing clinical significance via equivalence tests 09/08 to 04/09

Laura Ball Equivalence tests and the gender similarities hypothesis 09/08 to 04/09

Caroline Golinski The role of quantitative methodologists in psychology 09/07 to 08/08

Eva Abdulla/ Referencing of statistical publications by psychologists 09/07 to 04/08

Laura Mills

Jason Goertzen Lack of association tests 09/07 to 04/08

Zdravko Marjanovic Detecting random responders via interitem variability 09/07 to 04/08

Laura Mills Robust inferential tests for 2X2 factorial designs 09/05 to 09/07

Artem Safarov Effect sizes and p-values: A complex relationship 09/05 to 04/06

Carmen Bewell Comparing means under assumption violation 09/05 to 04/06

Rinat Nissim Factor structure of the Beck Hopelessness Scale 09/05 to 04/06

Denise Chang Analyzing functional MRI data 09/04 to 04/05

Heather Schmidt Strategies for teaching statistics effectively 09/04 to 04/05

Michelle Cheng Analyzing DNA microarray data 09/04 to 04/05

Debra Lall Structural Equation Modeling in psychological research 09/04 to 04/05

Michelle Cheng DNA Microarray data: A new methodology for psychology 06/04 to 08/04

Azadeh Shahidsaless/ Assumption violation in psychological research 09/03 to 08/04

Eli Edell/Sophie

Macrodimitris

Julie Stringer Analyzing independent groups with dissimilar distributions 09/03 to 04/04

Marc Abramovitz Test statistics for heteroscedastic factorial designs 09/02 to 04/03

Jason Wang Living accommodations and satisfaction with university 09/02 to 04/03

Maria Santarcangelo Detecting deception training 09/01 to 04/02

Invited Presentations/Short Courses/Workshops:

Dates Title Organization

02/20 Effect Size Reporting in Social Quantitative Methods Area

 Personality Psychology: The Good,

 The Bad and the Ugly

05/20 Better (and Quicker) Data Cleaning Canadian Psychological Association

using R and the Tidyverse (with (cancelled to due Covid-19)

Mark Adkins)

10/19- A Primer on the ‘New Statistics’ Institute for Social Research

11/19

09/19 Simulation Studies in R Quantitative Methods Area

06/19 Crash Course in Meta-Analysis Canadian Psychological Association

01/19 Meta-Analysis Social-Personality Area Brown Bag

11/18 Multiplicity Control Quant

09/18 *p*-values Had a Good Run: Institute for Social Research

 A Primer on the ‘New Statistics’

02/18 Equivalence Testing in Department of Psychology,

 Psychological Research University of Manitoba

10/16- Introduction to Structural Institute for Social Research

11/16 Equation Modeling

02/16- Introduction to R Institute for Social Research

03/16

08/15 Introduction to R Trent University

04/15 Analyzing Data from Psychological Florida International University Studies: Intriguing Methods for Department of Biostatistics Intriguing Questions

11/13 Advances in Equivalence Testing Quantitative Methods Area,

 Department of Psychology

11/13 A Second Course on Structural Institute for Social Research

 Equation Modeling

11/12 Introduction to Structural Institute for Social Research

 Equation Modeling

02/12- Introduction to R Institute for Social Research

03/12 (with Carrie Smith)

01/12- Introduction to Structural Institute for Social Research

02/12 Equation Modeling (with

 Constance Mara)

03/11 Introduction to Equivalence Testing Quantitative Methods Area,

 Department of Psychology

01/11- Introduction to R Institute for Social Research

02/11

10/09- Introduction to Structural Institute for Social Research

11/09 Equation Modeling

03/09- Introduction to R Institute for Social Research

04/09

02/08- Getting Started with R Institute for Social Research

03/08

06/07 Growth Curve Models in Applied 2008 York University Summer Program

 Behavioural Science Research in Data Analysis

10/07- Multiple Comparison Issues in Institute for Social Research

11/07 Behavioural Science Research

02/06- Structural Equation Modeling: Institute for Social Research

03/06 A Second Course

10/05- Structural Equation Modeling Institute for Social Research

11/05

10/04- Structural Equation Modeling Institute for Social Research

11/04

01/03- Structural Equation Modeling Institute for Social Research

02/03

06/02 Growth Curve Modeling 2002 York University Summer Program in

 Data Analysis

02/02- Assumption Violation in Institute for Social Research

03/02 Analysis of Variance

10/01 Longitudinal Data Analysis Lamarsh Center for Research on Violence

 and Conflict Resolution

03/00 Applying for Academic Positions University of Manitoba

Teaching Awards:

Date Award Sponsor

1999 Graduate Student Teaching Award Faculty of Arts, University of Manitoba

Service

**Administrative Committees/Duties:**

Dates Committee/Duty Level

08/20-present Chair, Recruitment Committee Department of Psychology

Quantitative Methods Hire

07/20-present Associate Undergraduate Program Department of Psychology

 Director

06/19-present Chair-Elect – Quantitative Canadian Psychological Association

 Methods Section

08/18-present Psychology Research Participant Department of Psychology

 Pool Committee

06/18-present Canadian Psychological Association Canadian Psychological Association

Convention Committee

04/18-present Quantitative Methods Diploma Department of Psychology

 Coordinator

09/17-present Undergraduate Studies Committee Department of Psychology

06/16-present Tri-Council Internal Peer Review Faculty of Health

 Committee

07/01-07/20 Statistical Consultant Institute for Social Research

09/17-06/20 Quantitative Methods Area Department of Psychology

 Coordinator

09/17-06/20 Graduate Executive Committee Department of Psychology

11/17-02/19 Department of Psychology Faculty of Graduate Studies

 Representative – Faculty of

 Graduate Studies Council

06/16-06/19 Secretary/Treasurer – Quantitative Canadian Psychological Association

 Methods Section

09/16-02/17 Recruitment Committee, Department of Psychology

 Computational Neuroscience Hire

07/15-06/17 Executive Committee Department of Psychology

07/15-06/17 Tenure and Promotion Committee Department of Psychology

11/16-01/17 Cyclical Program Review, Faculty of Health

Nursing (Post RN, BNS, BScN)

06/15-06/16 Past Chair - Quantitative Methods Canadian Psychological Association

 Section

09/14-06/15 Statistical Consultant Integrated Biostatistics and Data

 Management Consortium, Florida

 International University

06/14-06/15 Chair - Quantitative Methods Canadian Psychological Association

 Section

09/13-06/14 Undergraduate Studies Committee Department of Psychology

07/13-06/14 Head, Quantitative Methods Area Department of Psychology

07/13-06/14 Graduate Executive Committee Department of Psychology

06/13-06/14 Chair Elect - Quantitative Methods Canadian Psychological Association

 Section

07/11-06/14 Executive Committee Department of Psychology

09/11-06/14 Computing Committee Department of Psychology

03/11-04/13 Chair, Tenure and Promotion Department of Psychology

 Committee

06/11-06/12 Proposed/Developed the Canadian Psychological Association

 the Quantitative Methods Section

07/09-06/11 Petitions Committee Faculty of Health

11/09-02/10 Consultant, University of Ontario Committee on Graduate

 Windsor Application for a New Studies (OCGS)

 Graduate Program in Social

 Methods

01/07-09/09 Proposed/Developed the Psychology

 the Quantitative Methods Area

07/07-07/09 Tenure and Promotion Psychology

 Committee Member

01/09-06/09 Coordinator, Quantitative Psychology

 Methods Area

07/07-06/09 Graduate Executive Member Psychology

07/02-07/08 Website Development/ Social-Personality Area,

 Maintenance Department of Psychology

07/05-06/06 Graduate Executive Member Psychology

07/05-07/06 Tenure and Promotion Psychology

 Committee Member

07/02-06/06 Honours Thesis Workshop Psychology

 Coordinator

07/01-06/06 Research Coordinator Psychology

04/04-10/05 Chair, Teaching Loads Committee Psychology

10/03-04/04 Chair, Search for a Chair Psychology

 Committee

07/03-04/05 Chair, Quantitative Psychology Psychology

 Hiring Committee

07/02-06/04 Executive Committee Psychology

07/01-07/03 Statistics Qualify Examination Psychology

 Coordinator

10/01-04/02 Undergraduate Research Psychology

 Participants Pool Review