

**CURRICULUM VITAE**

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 Department of Psychology  
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<b>Education</b>
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<u>Date</u>	<u>Degree</u>	<u>Specialization</u>	<u>School</u>
2001	PhD	Quantitative Psychology	University of Manitoba
1995	MA	Experimental Psychology	Lakehead University
1993	HBA	Psychology	Laurentian University

<b>Current Positions</b>
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<u>Dates</u>	<u>Title</u>	<u>Organization</u>	<u>Affiliation</u>
2019-present	Coordinator	Quantitative Methods Workshop Series	York University
2014-present	Editorial Board Member	Journal of Experimental Education	Taylor & Francis Group
2011-present	Professor	Department of Psychology	York University

2002-present	Editorial Board Member	Canadian Journal of the Behavioural Sciences	Canadian Psychological Assoc.
2001-present	Member	Statistical Consulting Service	York University

<b>Previous Positions</b>
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<u>Dates</u>	<u>Title</u>	<u>Organization</u>	<u>Affiliation</u>
2022-2023	Undergraduate Program Director	Department of Psychology	York University
2020-2022	Associate Undergraduate Program Director	Department of Psychology	York University
2015-2020	Coordinator	Statistical Consulting Service	York University
2014-2015	Visiting Professor	Department of Psychology	Florida International University
2014-2015	Visiting Member	Integrative Biostatistics and Data Management Centre	Florida International University
2011-2014	Coordinator	Statistical Consulting Service	York University
2007-2011	Associate Coordinator	Statistical Consulting Service	York University
2004-2011	Associate Professor	Department of Psychology	York University
2005- 2006	Coordinator	Statistical Consulting Service	York University
2001-2005	Associate Coordinator	Statistical Consulting Service	York University
2000-2004	Assistant Professor	Department of Psychology	York University
2000-2002	Statistical Consultant	Department of Psychology	York University

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

**Alter, U., Too, M., & Cribbie, R. A.** (in press). Navigating the Bayes maze: The psychologist's guide to Bayesian statistics, a hands-on tutorial with R code. *International Journal of Psychology*.

**Beribisky, N. & Cribbie, R. A.** (in press). Equivalence testing based fit index: Standardized root mean squared residual. *Multivariate Behavioral Research*.

**Camilleri, C., Alter, U., & Cribbie, R. A.** (in press). Identifying influential observations in multiple regression. *The Quantitative Methods for Psychology*.

**Martinez Gutierrez, N. & Cribbie, R. A.** (in press). Effect sizes for equivalence testing: Incorporating the equivalence interval. *Methods in Psychology*.

**Terry, J.,** Ross, R. M., Nagy, T., Salgado, M., Garrido-Vásquez, P., Sarfo, J. O., Cooper, S., Buttner, A. C., Lima, T. J. S., Öztürk, İ., Akay, N., Santos, F. H., Artemenko, C. A., Copping, L., Elsherif, M. M., Milovanović, I., Cribbie, R. A., Drushlak, M. G., Swainston, K., Shou, Y., Leongómez, J. D., Palena, N., Abidin, F. A., Reyes-Rodríguez, M. F., Yunfeng, H., Abraham, J., Vatakis, A., Jankowsky, K., Schmidt, S. N. L., Grimm, E., González, D., Schmid, P., Ferreira, R. A., Rozgonjuk, D., Özhan, N., O'Connor, P. A., Zsido, A. N., Stiglic, G., Rhodes, D., Rodríguez, C., Ropovik, I., Enea, V., Nurwanti, R., Estudillo, A. J., **Beribisky, N.**, Himawan, K. K., Geven, L. M., van Hoogmoed, A. H., Bret, A., Chapman, J. E., **Alter, U.**, Flack, T. R., Hanna, D., Soltanou, M., Banik, G., Adamkovič, M., van der Ven, S. H. G., Mosbacher, J. A., Şen, H. H., Anderson, J. R., Batashvili, M., de Groot, K., Parker, M. O., Helmy, M., Ostroha, M. M., Gilligan-Lee, K. A., Egara, F. O., Barwood, M., Thomas, K., McMahon, G., Griffin, S. M., Nuerk, H. C., Counsell, A., Lindemann, O., Van Rooy, D., Wege, T. E., Lewis, J. E., Aczel, B., Mohoghan, C., Al-Hoorie, A. H., Huber, J. F., Yapan, S., Garrido- Vásquez, M. E., Callea, A., Ergiyen, T., Clay, J., Mertens, G., Topçu, F., Tutlu, M., Täht, K., Mikkor, K., Caso, L., Karner, A., Storm, M. M. C., Daroczy, G., Zein, R. A., Greco, A., Buchanan, E. M., Schmid, K., Hunt, T. E., De keersmaecker, Branney, P. E., Randell, J., Clark, O. J., Steltenpohl, C. N., Malu, B., Tekeş, B., Ramis, T., Agrigoroaei, S., Badcock, N. A.,

McAloney-Kocaman, K., Semenikhina, O. V., Graf, E. W., Lea, C., Ogba, K. T. U., Guppy, F. M., Warhurst, A. C., Lindsay, S., Al Khateeb, A., Scharnowski, F., de Kwaadsteniet, L., Francis, K. B., Lecompte, M., Webster, L. A. D., Morsanyi, K., Forwood, S. E., Walters, E. R., Tip, L. K., Wagge, J. R., Lai, H. Y., Crossland, D. S., Darda, K. M., Flack, Z. M., Leviston, Z., Brolly, M., Hills, S. P., Collins, E., Roberts, A. J., Cheung, W., Leonard, S., Verschuere, B., Stanley, S. K., Xenidou-Dervou, I., Ghasemi, O., Liew, T., Ansari, D., Guilaran, J., Penny, S. G., Bahnmueller, J., Hand, C. J., Rahajeng U. W., Peterburg, D., Takacs, Z. K., Platow, M. J., Field, A. P. (in press). Data from an International Multi-Centre Study of Statistics and Mathematics Anxieties and Related Variables in University Students (the SMARVUS Dataset) (in press). *Journal of Open Psychology Data*.

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

**Beribisky, N. & Cribbie, R. A.** (2024). Evaluating the performance of existing and novel negligible effect statistical tests for model fit in structural equation modeling. *British Journal of Mathematical and Statistical Psychology*, 77, 103-129.

Sharpe, D., & Cribbie, R. A. (2023). Analysis of treatment-control pre-post-follow-up design data. *The Quantitative Methods for Psychology*, 19, 25-46. [10.20982/tqmp.19.1.p025](https://doi.org/10.20982/tqmp.19.1.p025)

**Workye, R., Shephard, A., Alexander, S., Cribbie, R. A., Flett, G. L., & Mackinnon, S. P.** (2023). Perfectionism, anxiety sensitivity, and negative reactions following a failed statistics test: A vulnerability-stress model. *Scholarship of Teaching and Learning in Psychology*. <https://doi.org/10.1037/stl0000363>

**Farmus, L., Beribisky, N., Martinez Gutierrez, N., Alter, U., Panzarella, E., & Cribbie, R. A.** (2022). Effect size reporting and interpretation in social personality research. *Current Psychology*, 42, 15752-15762. <https://doi.org/10.1007/s12144-021-02621-7>

**Jabbari, Y., & Cribbie, R. A.** (2022). Negligible interaction test for continuous predictors. *Journal of Applied Statistics*, 49, 2001-2015. [10.1080/02664763.2021.1887102](https://doi.org/10.1080/02664763.2021.1887102)

**Panzarella, E., Beribisky, N., & Cribbie, R. A.** (2021). Denouncing the use of field-specific effect size distributions to inform magnitude. *PeerJ*, 9, e11383. <https://doi.org/10.7717/peerj.11383>

**Tajik-Parvinchi, D., Farmus, L., Tablon-Modica, P., Cribbie, R. A., & Weiss, J. A.** (2021). The role of cognitive control and emotion regulation in predicting mental health problems in children with neurodevelopmental disorders. *Child: Care, Health and Development*, 47, 608-617. [10.1111/cch.12868](https://doi.org/10.1111/cch.12868)

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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.

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#### Book Chapters:

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

Farmus, L. & Cribbie, R. A. (in press). *Equivalence testing*. In B. B. Frey (Ed.), *Encyclopedia of Research Design* (2<sup>nd</sup> 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* (2<sup>nd</sup> Ed.). New York: Routledge

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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:

Camilleri, C., Beribisky, N., & Cribbie, R. A. The minimum meaningful effect size: A vital component of pre-registrations. *Current Psychology*.

Mackinnon, S. P., Alexander, R. N., Chen, R., Cribbie, R. A, Flett, G. L., & Hill, T. G.

Perfectionism, anxiety sensitivity, and statistics anxiety: A test of the vulnerability-stress model using a 2-wave longitudinal study. *Learning and Individual Differences*.

Goldstein, L., Ugucioni, B., Caferri, J., Valente, M., Cribbie, R., Foroughe, M., & Muller, R. Examining inter-rater reliability and agreement within a novel nonverbal coding tool for the adult attachment interview. *Psychological Assessment*.

Martinez Gutierrez, N., DeSouza, J., Alter, U., Bell, S., Beribisky, N., Farmus, L., Tu, E., & Cribbie, R. A. Multiplicity control in psychological research: A systematic review of applied practices. *Canadian Psychology*.

Conference Presentations (Refereed):

Lemud, L. & Cribbie, R. A. (2025, June). *Comparing Means Under Nonnormality and Heteroscedasticity: Defending the Yuen Test*. Poster presented at the Annual Meeting of the Canadian Psychological Association, St. John's, Newfoundland.

Beribisky, N., & Cribbie, R. A. (2024, June). *Equivalence tests for structural equation models*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Ottawa, Ontario.

Celio, V., & Cribbie, R. A. (2024, June). *Methods for comparing distribution shapes*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Ottawa, Ontario.

Celio, V., Hallett, D., & Cribbie, R. A. (2024, June). *Exploring predictors of statistics anxiety among undergraduate psychology students from universities inside and outside of Canada*. Poster presented at the Annual Meeting of the Canadian Psychological Association, Ottawa, Ontario.

Martinez Gutierrez, N., DeSouza, J., Alter, U., Bell, S., Beribisky, N., Farmus, L., Tu, E., & Cribbie, R. A. (2024, June). *Multiplicity control in psychological research: A systematic review of applied practices*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Ottawa, Ontario.

Beribisky, N., & Cribbie, R. A., (2023, June). *An equivalence testing based version of the standardized root mean squared residual*. Poster presented at the Modern Modeling Methods Conference, Storrs, CT.

Martinez Gutierrez, N., DeSouza, J., Alter, U., Beribisky, N., Farmus, L., & Cribbie, R. A. (2023, June). *Evaluating the multiplicity control practices of psychology researchers*. Poster presented at the Modern Modeling Methods Conference, Storrs, CT.

- Celio, V., Terry, J., Field, A., & Cribbie, R. A. (2023, June). *Exploring predictors of statistics anxiety among undergraduate students*. Poster presented at the Annual Meeting of the Canadian Psychological Association, Toronto, Ontario.
- Camilleri, C., Alter, U., & Cribbie, R. A. (2023, June). *Identifying influential observations in multiple regression*. Poster presented at the Annual Meeting of the Canadian Psychological Association, Toronto, Ontario.
- Graham, C., O'Hagan, F., Cribbie, R. A., & Peters, K. (2023, June). *Effect size indices in social psychology*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Toronto, Ontario.
- Beribisky, N., Camilleri, C., & Cribbie, R. A. (2023, June). *The minimum meaningful effect size: A vital component of pre-registrations*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Toronto, Ontario.
- Shwenck, D., Alexander, S., Cribbie, R. A., Flett, G., Shephard, A., & Mackinnon, S. P. (2023, June). *Fear of failure intensifies the relationship between statistics test performance and self-esteem: A two-group pre-post experiment*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Toronto, Ontario.
- Mackinnon, S. P., Alexander, S., Cribbie, R. A., Flett, G. L., Hill, T. G., & Workye, R. (2023, June). *Understanding fear in statistics classrooms: The relationship between perfectionism, negative feedback, and statistics anxiety*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Toronto, Ontario.
- Farmus, L. & Cribbie, R. A. (2022, August). *Equivalence testing for normality*. Poster presented at the Annual Meeting of the American Psychological Association (online).
- Martinez-Gutierrez, N., Alter, U., Beribisky, N., Farmus, L., & Cribbie, R. A. (2022, June). *An R Package for Negligible Effect Testing: Graphing a Novel Effect Size Measure*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Calgary, AB.
- Peters, K., Bolzon, J., O'Hagan, F., & Cribbie, R. A. (2022, June). *Effect sizes in psychology: Expert perspectives*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Calgary, AB.
- Beribisky, N. & Cribbie, R. A. (2022, April). *Developing and evaluating an equivalence test for the standardized mean square residual in structural equation modeling*. Poster presented at the Annual Meeting of Association for Psychological Science, Chicago, IL.
- 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.
- 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 presented at the International Congress of Psychology, Prague, Czech Republic.
- 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). *The flipped classroom improves performance in introductory statistics: Early evidence from a systematic review and meta-analysis*. Paper presented at the Teaching Statistics in Psychology conference, online.
- Peters, K., O'Hagan, F., & Cribbie, R. A. (2020, May). *Implementing the "new statistics": What, when, where, why and how?* Paper 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).
- Beribisky, N., Panzarella, E., Martinez Gutierrez, N., Farmus, L., Alter, U., & Cribbie, R. A. (2020, May). *Comparing effect size reporting and interpretation practices across social-personality journals*. Poster 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). *Contextualizing 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*. 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
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<u>Date</u>	<u>Award</u>	<u>Sponsor</u>
2024	Dean's Award for Excellence in Educational Leadership, Curricular and/or Pedagogical Innovation	Faculty of Health, York University
2001	Excellence in Research (Dissertation)	Canadian Psychological Association
1998	Vineberg Award for Outstanding Graduate Student Research	University of Manitoba

Supervised Student Awards:

<u>Date</u>	<u>Student</u>	<u>Award</u>	<u>Sponsor</u>
2021	Nataly Beribisky	Student Presentation Award	Quantitative Methods Section, Canadian Psychological Association
2020	Nataly Beribisky	Michael Friendly Award for Best Research in Quantitative Methods	Quantitative Methods Program, Dep't of Psychology
2019	Naomi Martinez Gutierrez	Michael Friendly Award for Best Research in Quantitative Methods	Quantitative Methods Program, Dep't of Psychology
2019	Linda Farmus	Student Presentation Award	Quantitative Methods Section, Canadian Psychological Association
2018	Linda Farmus	Michael Friendly Award for Best Research in Quantitative Methods	Quantitative Methods Program, Dep't of Psychology
2019	Nataly Beribisky	People's Choice Winner at the Three Minute Thesis (3MT) Competition at York University	Canadian Association for Graduate Studies
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 for Best Research in Quantitative Methods	Quantitative Methods Program, Dep't of Psychology
2014	Megan Jennings	W. B. Templeton Award for Best Honours Thesis	Department of Psychology York University
2013	Alyssa Counsell	Michael Friendly Award for Best Research in Quantitative Methods	Quantitative Methods Program, Dep't of Psychology
2011-2012	Haykaz Mangardich	Poster Prize for Best Presentation of an Honours Thesis	Department of Psychology York University

<h2>Funding</h2>
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Type of Funding: Research Grant (Principal Investigator)  
 Title: Modern Perspectives on Multiplicity Control  
 Granting Agency: Social Sciences and Humanities Research Council of Canada  
 Dates: 2023-2025  
 Amount: \$62300

Amount: \$251006  
 Type of Funding: Research Grant (Principal Investigator)  
 Title: Extensions of Negligible Effect Statistical Testing  
 Granting Agency: Social Sciences and Humanities Research Council of Canada  
 Dates: 2023-2028  
 Amount: \$251006

Type of Funding: Research Grant (Collaborator, PI: Thanujeni Pathman)  
 Title: Knowledge base for forensic settings and theoretical models: How accurate is memory for time across childhood?  
 Granting Agency: Social Sciences and Humanities Research Council of Canada

Dates: 2023-2028  
Amount: \$240030

Type of Funding: Research Grant (Co-Investigator, with Peters, K. R. & O'Hagan, F.)  
Title: Effect sizes in Social Psychology: Researcher and Editor Perspectives  
Granting Agency: Social Sciences and Humanities Research Council of Canada  
Dates: 2021-2023  
Amount: \$33958

Type of Funding: Research Grant (Co-Investigator, with Mackinnon, S. P. & Flett, G.)  
Title: Perfectionism, Anxiety Sensitivity, and Statistics Anxiety: A Vulnerability Stress Model  
Granting Agency: Social Sciences and Humanities Research Council of Canada  
Dates: 2021-2023  
Amount: \$70836

Type of Funding: Research Grant (Co-Investigator with Peters, K. R. & O'Hagan, F.)  
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: 2016-2023  
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, PI: Heather Hadjistavropolous)  
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, PI: Robert Muller)  
 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)  
 Title: Multiple Comparisons for One-way Tests of Equivalence  
 Granting Agency: Faculty of Health, York University  
 Dates: 2008-2010  
 Amount: \$1550

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, PI: Jane Irvine)  
 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/Supervision
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Undergraduate Courses:

<u>Course Name</u>	<u>Course Number</u>
Introduction to Psychology (3 sections)	17.120 (U. of Manitoba)
Introduction to Statistical Methods (23 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)
Seminar in Statistics (2 section)	4330 (York U.)
Honours Thesis Coordinator (3 years)	

New Courses Developed (Undergraduate):



<u>Course Name</u>	<u>Course Number</u>
Seminar in Statistics	PSYC 4330
Intermediate Statistics II	PSYC 3032

### Undergraduate Curriculum Development

Proposed and developed the *Psychology Concentrations* along with Karen Fergus and the Undergraduate Studies Committee (2021).

Proposed and developed the *Concentration in Applied Methods and Analysis* with Monique Herbert and Julie Conder (2021).

Proposed and developed the *Certificate in Psychological Methods and Data Analysis* along with Monique Herbert and Julie Conder (2021).

Proposed and developed the *Quantitative Methods Workshop Series* (2020).

### 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, Carmel Camilleri

Honours Theses (current):

Independent Research (completed): Azadeh Shahidsaless, Marc Abramovitz, Michelle Chang, Eli Edell, Debra Lall, Caroline Golinski, George Nasiakos, Vadim Pascarrow, 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), Jordana DeSouza (2020-2023), Melissa Gatt (2021-2022); Victoria Celio (2022-2024).

Independent Research (current):

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, Christina Lapytskaya

## Graduate Independent Research (current):

Graduate Courses:

<u>Course Name</u>	<u>Course Number</u>
Univariate Analysis (14 sections)	6130 (York U.)
Advanced Statistical Methods (1 section)	17.842 (U. of Manitoba)
Longitudinal Data Analysis (5 sections)	6190 (York U.)
Univariate Analysis I: ANOVA (4 sections)	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 (Graduate):

<u>Course Name</u>	<u>Course Number</u>
Hierarchical Linear Modeling	PSYC 6160*
Longitudinal Data Analysis	PSYC 6170*
Psychometric Methods	PSYC 6180*
Advanced Linear and Nonlinear Modeling	PSYC 6145
Multivariate Analysis (new 3 credit course)	PSYC 6140
* in conjunction with David Flora	

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)

Proposed and developed the first online course in *Structural Equation Modeling* available to graduate students in Ontario (with Andrea Howard, Carleton University, Dennis Jackson, University of Windsor, David Flora, York University) (2016)

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)] (2012)

Graduate Supervision:

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

Masters Students - Primary Supervisor (Current): Victoria Celio

Masters Thesis Committee/Chair (Graduated): Chris Friesen, Robin Baker, Jessie Robertson, Lise Rondeau, Lephong 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, Cassandra Wyers, Alecia Carolli

Masters Thesis Committee (Current): Tarnpreet Virk

PhD Students - Primary Supervisor (Current): Linda Farmus, Udi Alter, Naomi Martinez Gutierrez

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

PhD Academic Breadth and Comprehensive (ABC) 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 Academic, Breadth, Comprehensive (ABC) Paper (Current):

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, Joshua Starr (PhD, McGill)

PhD Thesis Committee (Current): Lindsay Burns, Carol Lee, Mark Adkins, Sabine Johnson,  
Kristina Cordeiro

PhD Research Practicum: Joshua Guilfoyle

Postdoctoral Supervision: Nataly Beribisky (2023-2024)

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

<u>Name</u>	<u>Project Title</u>	<u>Dates</u>
Liran Lemud	Defending the Yuen test for comparing trimmed means	09/24 to Pres.
Vaidehi Bhingaradia	Small but important effects in Psychology	09/24 to Pres.
Tatijanna Martel	Do researchers recognize equivalence testing scenarios?	09/24 to Pres.
Victoria Celio/ Gabriel Crone/ Udi Alter/ Naomi Martinez Gutierrez/Liran Lemud	A review of negligible effect testing applications	11/24 to Pres.
Victoria Celio	Traditional tests for distribution shape heterogeneity	01/24 to Pres.
Victoria Celio	Equivalence of independent distribution shapes	07/23 to Pres.
Nataly Beribisky	An equivalence testing primer	09/23 to Pres.
Naomi Martinez Gutierrez	Bayes factors and multiplicity control	09/22 to Pres.
Udi Alter	Bayesian hierarchical models and multiplicity control	08/22 to Pres.
Naomi Martinez Gutierrez	Interpretations of effect size magnitude (visualizations)	09/19 to Pres.
Linda Farmus	Assessing normality via equivalence testing	09/18 to Pres.
Carmel Camilleri/ Udi Alter	Identifying outliers in multiple regression	09/22 to 04/24
Nataly Beribisky/ Udi Alter/Naomi Martinez Gutierrez/ Linda Farmus/ Victoria Celio	<i>negligible</i> R package vignettes	09/22 to 12/23
Nataly Beribisky	Assessing model fit via equivalence-based SRMR	07/22 to 03/24
Carmel Camilleri/ Nataly Beribisky	Minimum meaningful effect size and preregistration	12/21 to 04/24
Jordana DeSouza/ Naomi Martinez Gutierrez/Udi Alter/Stephanie	Review of multiplicity control practices	09/21 to 09/24

Bell/Eric Tu		
Naomi Martinez	<i>negligible</i> : An R package for equivalence testing	04/21 to 04/23
Gutierrez/Udi Alter/Linda Farmus/ Nataly Beribisky		
Emily Panzarella/ Nataly Beribisky	Effect size magnitude via discipline distributions	10/19 to 10/21
Nataly Beribisky	Assessing model fit via equivalence-based CFI & RMSEA	09/18 to 12/23
Christina Lapytskaia	Effect sizes for robust tests	03/20 to 12/21
Naomi Martinez	Effect sizes for equivalence testing	01/20 to 12/21
Gutierrez		
Linda Farmus/ Emily Panzarella/ Nataly Beribisky/ Udi Alter/Naomi Martinez Gutierrez	Effect size reporting in social psychology research	01/19 to 12/21
Nataly Beribisky/ Linda Farmus/ Naomi Martinez Gutierrez	Quantifying a lack of relationship via visualizations	06/17 to 12/20
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 Gutierrez/ Linda Farmus	Statistical suppression in psychological research	09/17 to 09/19
Nataly Beribisky/ Udi Alter	Power analysis reporting in psychology	09/17 to 04/19
Nataly Beribisky/ Andrew Hunter/ Linda Farmus	Multiplicity control and replication	08/17 to 07/18
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/ Heather Davidson	Quantifying the presence of a relationship via graphics	08/16 to 07/17
Joseph Hoyda/ Alyssa Counsell	Bayesian approaches vs equivalence testing	07/16 to 09/17
Linda Farmus	Issues with ANCOVA in pretest/posttest designs	07/16 to 06/17
Alyssa Counsell/ Phil Chalmers/ Matt Sigal	Robust means modeling	09/13 to 10/16
Heather Davidson/ Yasman Jabbari	Use of statistical software in departments of psychology	09/15 to 10/16

Jamie Kim	Gatekeeper approaches for the one-way ANOVA	01/16 to 10/16
Alyssa Counsell/ Victoria Ng	Bayesian equivalence tests	10/14 to 09/16
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/ Chantal Ragoonanan	Robust lack of interaction tests	09/13 to 04/16
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/ Rebecca Venditteli	Group-level based tests of clinical significance	10/11 to 07/13
Chantal Ragoonanan	Lack of interaction tests	09/12 to 04/13
Constance Mara/ Cathy LaBrish	Assumption violation and generalized linear models	09/10 to 04/13
Andy Koh	Equivalence/Nonequivalence Hypothesis Testing	09/10 to 03/13
Katrina van Wieringen	Robust tests for normative comparisons	09/10 to 04/11
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/ Carrie Smith/ Laura Mills/ Lisa Fiksenbaum/ Cathy Labrish	Longitudinal model for 'Pre-Post-Follow' up designs	05/10 to 09/10
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/ Vadim Pascarou	Assessing full mediation via equivalence testing	09/09 to 04/10
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/ Laura Mills	Referencing of statistical publications by psychologists	09/07 to 04/08

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/ Eli Edell/Sophie Macrodimitis	Assumption violation in psychological research	09/03 to 08/04
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:

<u>Dates</u>	<u>Title</u>	<u>Organization</u>
03/24	Using Canadian Supercomputers to Run Time Consuming R Jobs (with Victoria Celio)	Quantitative Methods Area
06/22	Introduction to Bayesian Analysis (with Ji-Yeh Choi & Xijuan Chang)	Quantitative Methods Workshop Series, York University
11/21	Getting Started with Bayesian Regression	Quantitative Methods Area
06/21	A Hands-On Introduction to Systematic Reviews and Meta-Analysis (with Nataly Beribisky)	Department of Psychology
02/20	Effect Size Reporting in Social Personality Psychology: The Good, The Bad and the Ugly	Quantitative Methods Area

05/20	Better (and Quicker) Data Cleaning using R and the Tidyverse (with Mark Adkins)	Canadian Psychological Association (cancelled to due Covid-19)
10/19-11/19	A Primer on the 'New Statistics'	Institute for Social Research
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	Quantitative Methods Area
09/18	<i>p</i> -values Had a Good Run: A Primer on the 'New Statistics'	Institute for Social Research
02/18	Equivalence Testing in Psychological Research	Department of Psychology, University of Manitoba
10/16-11/16	Introduction to Structural Equation Modeling	Institute for Social Research
02/16-03/16	Introduction to R	Institute for Social Research
08/15	Introduction to R	Trent University
04/15	Analyzing Data from Psychological Studies: Intriguing Methods for Intriguing Questions	Florida International University Department of Biostatistics
11/13	Advances in Equivalence Testing	Quantitative Methods Area, Department of Psychology
11/13	A Second Course on Structural Equation Modeling	Institute for Social Research
11/12	Introduction to Structural Equation Modeling	Institute for Social Research
02/12-	Introduction to R	Institute for Social Research



03/12	(with Carrie Smith)	
01/12- 02/12	Introduction to Structural Equation Modeling (with Constance Mara)	Institute for Social Research
03/11	Introduction to Equivalence Testing	Quantitative Methods Area, Department of Psychology
01/11- 02/11	Introduction to R	Institute for Social Research
10/09- 11/09	Introduction to Structural Equation Modeling	Institute for Social Research
03/09- 04/09	Introduction to R	Institute for Social Research
02/08- 03/08	Getting Started with R	Institute for Social Research
06/07	Growth Curve Models in Applied Behavioural Science Research	2008 York University Summer Program in Data Analysis
10/07- 11/07	Multiple Comparison Issues in Behavioural Science Research	Institute for Social Research
02/06- 03/06	Structural Equation Modeling: A Second Course	Institute for Social Research
10/05- 11/05	Structural Equation Modeling	Institute for Social Research
10/04- 11/04	Structural Equation Modeling	Institute for Social Research
01/03- 02/03	Structural Equation Modeling	Institute for Social Research
06/02	Growth Curve Modeling	York University Summer Program in Data Analysis
02/02- 03/02	Assumption Violation in Analysis of Variance	Institute for Social Research

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:

<u>Date</u>	<u>Award</u>	<u>Sponsor</u>
1999	Graduate Student Teaching Award	Faculty of Arts, University of Manitoba

<b>Service</b>
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**Administrative Committees/Duties:**

<u>Dates</u>	<u>Committee/Duty</u>	<u>Level</u>
07/24-present	Coordinator, Quantitative Methods Diploma	Department of Psychology
06/23-present	Past Chair, Quantitative Methods Section	Canadian Psychological Association
04/20-present	Coordinator, Quantitative Methods Workshop Series	York University
08/18-present	Undergraduate Research Participant Pool Committee	Department of Psychology
06/16-present	Tri-Council Internal Peer Review Committee	Faculty of Health
07/01-present	Statistical Consultant/Coordinator	Statistical Consulting Service
06/21-06/23	Council of Sections	Canadian Psychological Association
06/21-06/23	Chair – Quantitative Methods	Canadian Psychological Association

	Section	
09/17-06/23	Undergraduate Studies Committee	Department of Psychology
07/22-06/23	Undergraduate Program Director	Department of Psychology
06/18-08/22	Convention Committee	Canadian Psychological Association
08/21-02/22	Recruitment Committee Quantitative Methods CLA Hire	Department of Psychology
07/20-12/21	Associate Undergraduate Program Director	Department of Psychology
06/19-06/21	Chair-Elect – Quantitative Methods Section	Canadian Psychological Association
04/18-09/21	Quantitative Methods Diploma Coordinator	Department of Psychology
08/20-03/21	Chair, Recruitment Committee, Quantitative Methods Hire	Department of Psychology
09/17-06/20	Quantitative Methods Area Coordinator	Department of Psychology
09/17-06/20	Graduate Executive Committee	Department of Psychology
11/17-02/19	Department of Psychology Representative – Faculty of Graduate Studies Council	Faculty of Graduate Studies
06/16-06/19	Secretary/Treasurer – Quantitative Methods Section	Canadian Psychological Association
09/16-02/17	Recruitment Committee, Computational Neuroscience Hire	Department of Psychology
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, Nursing (Post RN, BNS, BScN)	Faculty of Health

06/15-06/16	Past Chair - Quantitative Methods Section	Canadian Psychological Association
09/14-06/15	Statistical Consultant	Integrated Biostatistics and Data Management Consortium, Florida International University
06/14-06/15	Chair - Quantitative Methods Section	Canadian Psychological Association
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 Section	Canadian Psychological Association
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 Committee	Department of Psychology
06/11-06/12	Proposed/Developed the the Quantitative Methods Section	Canadian Psychological Association
07/09-06/11	Petitions Committee	Faculty of Health
11/09-02/10	Consultant, University of Windsor Application for a New Graduate Program in Social Methods	Ontario Committee on Graduate Studies (OCGS)
01/07-09/09	Proposed/Developed the the Quantitative Methods Area	Psychology
07/07-07/09	Tenure and Promotion Committee Member	Psychology
01/09-06/09	Coordinator, Quantitative	Psychology

## Methods Area

07/07-06/09	Graduate Executive Member	Psychology
07/02-07/08	Website Development/ Maintenance	Social-Personality Area, Department of Psychology
07/05-06/06	Graduate Executive Member	Psychology
07/05-07/06	Tenure and Promotion Committee Member	Psychology
07/02-06/06	Honours Thesis Workshop Coordinator	Psychology
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 Committee	Psychology
07/03-04/05	Chair, Quantitative Psychology Hiring Committee	Psychology
07/02-06/04	Executive Committee	Psychology
07/01-07/03	Statistics Qualify Examination Coordinator	Psychology
10/01-04/02	Undergraduate Research Participants Pool Review	Psychology