Christopher Meaney

Biostatistician
Dept. Family and Community Medicine
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Education

Degrees

PhD. Biostatistics (Candidate), University of Toronto, 2015–Present.

MSc. Biostatistics, University of Toronto, 2008–2010.

BSc. Honours Health Studies Co-op, University of Waterloo, 2003–2008.

Selected Coursework

Mathematical Statistics, Statistical Inference, Likelihood Inference, Differentiable Inference, Artificial Intelligence, Data Mining, Multivariate Statistics, Bayesian Methods, Monte Carlo Estimation, Statistical Computing, Applied Statistics, Categorical Data Analysis, Survival Analysis, Spatial Data Analysis, Econometrics, Epidemiology, Design of Experiments, Advanced Research Design, Research Design.

Work Experience

Professional Experience

Dept. of Family and Community Medicine, University of Toronto, Biostatistician, 2010–present.

Department of Psychiatry, Toronto General Hospital, Biostatistical Consultant, 2012–2016.

Toronto Hepatitis C Alliance, Biostatistical Consultant, 2012–2016.

Department of Infectious Disease, Toronto East General Hospital, Biostatistical Consultant, 2014.

Movement Disorders Clinic, Toronto Western Hospital, Biostatistical Consultant, 2009–2014.

Liver Clinic, Toronto Western Hospital, Biostatistical Consultant, 2009–2011.

Child Health Evaluative Sciences, Sick Kids Hospital, Research Assistant, 2008–2010.

Biostatistical Methodology Unit, Sick Kids Hospital, Research Assistant, 2009–2010.

Studentships & Practicum/Co-op Placements

Vector Institute for Artificial Intelligence, University of Toronto, PhD Student, 2017-present.

ICES, Ontario Ministry of Health and Long Term Care, PhD Student, 2017-present.

Department of Medical Imaging, University of Toronto, Biostatistics Practicum Student, 2016–2017.

Biostatistical Methodology Unit, Sick Kids Hospital, Biostatistics Practicum Student, 2008–2009.

Shared Information Management Services, Toronto General Hospital, Analyst, 2007.

Child Health Evaluative Sciences, Sick Kids Hospital, Research Assistant, 2006.

Air Quality Research Branch, Environment Canada, Chemical Technician, 2005.

Fields of Research Interest

Unsupervised machine learning for summarizing complex medical datasets (e.g. text, images, networks).

Supervised machine learning for the development of accurate/well-calibrated clinical predictive models.

The application of biostatistical and epidemiological methods in primary care research.

Computational Skills

Operating Systems: Windows, Linux/Unix, Mac OS.

Programming Languages: Bash, Python, Julia, Matlab, Mathematica, C++.

Statistical Computing Languages: R, SAS, SPSS, Stata.

Database languages: PostGreSQL, SQLite, Microsoft SQL Server.

Markup Type Languages: XML, HTML, Markdown.

Typesetting: Latex.

Microsoft Office: Word, Excel, Access, Powerpoint, Outlook.

Research

Peer-Reviewed Scientific Publications

Salehi, L., Phalpher, P., Ossip, M., **Meaney, C.**, Valani, R., Mercuri, M. (2019). Variability in practice patterns among emergency physicians in the evaluation of patients with a suspected diagnosis of pulmonary embolism. Emergency Radiology. Pp. 1-8.

Khattak, F., Jeblee, S., Pou-Prom, C., Abdalla, M., **Meaney, C.**, Rudzicz, F. (2019). A survey of word embeddings for clinical text. Journal of Biomedical Informatics. Vol. 4, pp. 1-18.

Spithoff, S., **Meaney, C.**, Urbanoski, K., Harrington, K., Que, B., Kahan, M., Leece, P., Shehadeh, V., Sullivan, F. (2019). Opioid agonist therapy during residential treatment of opioid use disorder: Cohort study on access and outcomes. Canadian Family Physician. Vol. 65, pp. 443-452.

Aubrey-Bassler, K., Fernandes, C., Penney, C., Cullen, R., **Meaney, C.**, Sopcak, N., Campbell-Scherer, D., Moineddin, R., Baxter, J., Krueger, P., Wilson, M., Pike, A., Grunfeld, E., Manca, D. (2019). The effectiveness of a proven chronic disease prevention and screening intervention in diverse and remote primary care settings: an implementation study on the BETTER 2 Program. British Journal of General Practice. Vol. 3, pp. 1-11.

Wilderman, I., Berkovich, R., **Meaney, C.**, Kleiner, O., Perelman, V. (2019). Meniscus-Targeted injections for chronic knee pain due to meniscal tears or degenerative fraying: A retrospective study. Journal of Ultrasound in Medicine. Vol. 38, pp. 2853-2859.

Faust-Socher, A., Duff-Canning, S., Grabovsky, A., Armstrong, M., Rothberg, B., Eslinger, P., **Meaney, C.**, Schneider, R., Tang-Wai, D., Fox, S., Zadikoff, C., Kennedy, N., Chou, K., Persad, C., Litvan, I., Mast, B., Gerstenecker, A., Weintraub, S., Reginold, W., Marras, C. (2019). Responsiveness to change of the Montreal cognitive assessment, mini-mental state examination, and SCOPA-Cog in non-demented patients with Parkinson's disease. Dementia and geriatric cognitive disorders. Vol. 47, pp. 187-197.

Manca, D., Fernandes, C., Grunfeld, E., Aubrey-Bassler, K., Shea-Budgell, M., Lofters, A., Campbell-Scherer, D., Sopcak, N., O'Brien, M., **Meaney, C.**, Moineddin, R., McBrien, K., Salvalaggio, G., Krueger, P. (2018). The BETTER WISE protocol: building on existing tools to improve cancer and chronic disease prevention and screening in primary care for wellness of cancer survivors and patients - a cluster randomized controlled trial embedded in a mixed methods design. BMC Cancer. Vol. 18, pp. 1-16.

Salehi, L., Phalpher, P., Valani, R., **Meaney, C.**, Amin, Q., Ferrari, K., Mercuri, M. (2018). Emergency department boarding: a descriptive analysis and measurement of impact on outcomes. Canadian Journal of Emergency Medicine. Vol. 20, pp. 929-937.

Greiver, M., Sullivan, F., Kalia, S., Aliarzadeh, B., Sharma, D., Bernard, S., **Meaney, C.**, Moineddin, R., Eisen, D., Rahman, N., D'Urzo T. (2018). Agreement between hospital and primary care on diagnostic labeling for COPD and heart failure in Toronto, Canada: a cross-sectional observational study. Primary Care Respiratory Medicine. Vol. 28, pp. 1-8.

Kalia, S., Greiver, M., Zhao, X., **Meaney, C.**, Moineddin, R., Aliarzadeh, B., Grunfeld, E., Sullivan, F. (2018). Would you like to add a weight after this blood pressure, doctor? Discovery of potentially actionable associations between the provision of multiple screens in primary care. Journal of Evaluation in Clinical Practice. Vol. 24, pp. 423-430.

Persaud, N., **Meaney, C.**, El-Emam, K., Moineddin, R., Thorpe, K. (2018). Doxylamine-pyridoxine for nausea and vomiting of pregnancy randomized placebo controlled trial: Prespecified analyses and reanalysis. PloS One. Vol. 13, pp. 1-19.

Iglar, K., Murdoch, S., **Meaney, C.**, Krueger, P. (2018). Does clinical exposure matter?: Pilot assessment of patient visits in an urban family medicine residency program. Canadian Family Physician. Vol. 64, pp. 42-48.

Bedell, R., Lettow, M., **Meaney, C.**, Corbett, E., Chan, A., Heyderman, R., Anderson, S., Akesson, A., Kumwenda, M., Zachariah, R., Harries, A., Ramsay, A. (2017). Predictive value of C-reactive protein for tuberculosis, bloodstream infection or death among HIV-infected individuals with chronic, non-specific symptoms and negative sputum smear microscopy. Tropical Medicine and International Health. Vol 23, pp. 254-262.

Birk-Urovitz, E., Del Giudice, M., **Meaney, C.**, Grewal, K. (2017). Use of thyroid-stimulating hormone tests for identifying primary hypothyroidism in family medicine patients. Canadian Family Physician. Vol. 63, pp. 389-394.

Salvalaggio, G., **Meaney, C.**, Moineddin, R., Grunfeld, E., Manca, D. (2017). Moderate mental illness as a predictor of chronic disease prevention and screening. BMC Family Practice. Vol. 18, pp. 1-7.

Coons, M., Greiver, M., Aliarzadeh, B., **Meaney, C.**, Moineddin, R., Williamson, T., Queenan, J., Yu, C., White, D., Kiran, T., Kane, J. (2017). Is glycemia control in Canadians with diabetes individualized? A cross-sectional observational study. BMJ Open Diabetes Research and Care. Vol. 5, pp. 1-9.

Dunn, S., Lofters, A., Ginsburg, O., **Meaney, C.**, Ahmad, F., Moravac, C., Nguyen, J., Arisz, A. (2017). Cervical and breast cancer screening after CARES: A community program for immigrant and marginalized women. American journal of preventive medicine. Vol. 52, pp. 589-597.

Cherniak, W., Anguyo, G., **Meaney, C.**, Kong, L., Malhame, I., Pace, R., Sodhi, S., Silverman, M. (2017). Effectiveness of advertising availability of prenatal ultrasound on uptake of antenatal care in rural Uganda: A cluster randomized trial. PloS One. Vol. 12, pp. 1-14.

Moineddin, R., **Meaney, C.**, Grunfled, E. (2017). On the analysis of composite measures of quality in medical research. Statistical Methods in Medical Research. Vol. 26, pp. 633-660.

Krueger, P., White, D., **Meaney, C.**, Kwong, J., Antao, V., Kim, F. (2017). Predictors of job satisfaction among academic family medicine faculty: Findings from a faculty work-life and leadership survey. Canadian Family Physician. Vol. 63, pp. 177-185.

Carroll, J., Campbell-Scherer, D., Permaul, J., Myers, J., Manca, D., **Meaney, C.**, Moineddin, R., Grunfeld, E. (2017). Assessing family history of chronic disease in primary care Prevalence, documentation, and appropriate screening. Canadian Family Physician. Vol. 63, pp. 58-67.

Stubbs, B., Krueger, P., White, D., **Meaney, C.**, Kwong, J., Antao, V. (2016). Mentorship perceptions and experiences among academic family medicine faculty Findings from a quantitative, comprehensive work-life and leadership survey. Canadian Family Physician. Vol. 62, pp. 531-539.

Landes, M., Sodhi, S., Matengeni, A., **Meaney, C.**, Lettow, M., Chan, A., Oosterhout, J. (2016).

Characteristics and outcomes of women initiating ART during pregnancy versus breastfeeding in Option B+ in Malawi. BMC Public Health. Vol. 16, pp. 1-7.

Thomson, L., Sheehan, K., **Meaney, C.**, Wnuk, S., Hawa, R., Sockalingam, S. (2016). Prospective study of psychiatric illness as a predictor of weight loss and health related quality of life one year after bariatric surgery. Journal of Psychosomatic Research. Vol. 86, pp. 7-12.

Dodd, Z., Banga, C., Mason, K., **Meaney, C.**, Leszcz, M., Sockalingam, S. (2016). Engagement in group psychotherapy among marginalized individuals with hepatitis C. International Journal of Group Psychotherapy. Vol. 66, pp. 338-360.

Sockalingam, S., Alzahrani, A., **Meaney, C.**, Styra, R., Tan, A., Hawa, R. (2016). Time to consultation-liaison psychiatry service referral as a predictor of length of stay. Psychosomatics. Vol. 57, pp. 264-272.

Meaney, C., Moineddin, R., Voruganti, T., OBrien, M., Krueger, P., Sullivan, F. (2015). Text mining describes the use of statistical and epidemiological methods in published medical research. Journal of Clinical Epidemiology. Vol. 74, pp. 124-132.

Carson, J., Rendely, A., Garel, A., **Meaney, C.**, Stoller, J., Kaicker, J., Hayden, L. (2016). Are Canadian clinicians providing consistent sport-related concussion management advice? Canadian Family Physician. Vol. 62, pp. 494-500.

Cherniak, W., Ehrenkranz, R., Davidson, M., Pradhan, A., Lee, T., Krass, P., **Meaney, C**. (2016). The impact of parental obesity on pediatric malnutrition in rural Uganda - A household survey. Annals of Global Health. Vol. 82, pp. 381-382.

Aliarzadeh, B., **Meaney, C.**, Moineddin, R., White, D., Birken, C., Parkin, P. (2016). Hypertension screening and follow-up in children and adolescents in a Canadian primary care population sample: a retrospective cohort study. CMAJ Open. Vol. 4, pp. 230-235.

White, D., Krueger, P., **Meaney, C.**, Antao, V., Kim, F., Kwong, J. (2016). Identifying potential academic leaders Predictors of willingness to undertake leadership roles in an academic department of family medicine. Canadian Family Physician. Vol. 62, pp. 102-109.

Manca, D., Campbell-Scherer, D., Aubrey-Bassler, K., Kandola, K., Aguilar, C., Baxter, J., **Meaney, C.**, Salvalaggio, G., Carroll, J., Faria, V., Nykiforuk, C., Grunfeld, E., original BETTER Trial Investigators, Clinical Working Group. (2015). Developing clinical decision tools to implement chronic disease prevention and screening in primary care: the BETTER 2 program (building on existing tools to improve chronic disease prevention and screening in primary care). Implementation Science. Vol. 10, pp. 1-10.

Mason, K., Dodd, Z., Sockalingam, S., Altenberg, J., **Meaney, C.**, Millson, P. (2015). Beyond viral response: A prospective evaluation of a community-based, multi-disciplinary, peer-driven model of HCV treatment and support. International Journal of Drug Policy. Vol. 26, pp. 1007-1013.

Hunchak, C., Teklu, S., Meshkat, N., **Meaney, C.**, Ritchie, L. (2015). Patterns and predictors of early mortality among emergency department patients in Addis Ababa, Ethiopia. BMC Research Notes: vol 8, pp. 1-9.

Dunn, S., Panjwani, D., Gupta, M., **Meaney, C.**, Morgan, R., Feuerstein, E. (2015). Comparison of remote and in-clinic follow-up after methotrexate/misoprostol abortion. Contraception. Vol. 92, pp. 220-226.

Greiver, M., Aliarzadeh, B., **Meaney, C.**, Moineddin, R., Southgate, C. (2015). Are we asking patients if they smoke?: Missing information on tobacco use in Canadian electronic medical records. American Journal of Preventive Medicine. Vol. 49, pp. 264-268.

Antao, V., Beber, S., Telner, D., **Meaney, C.**, Peranson, J., Meuser, j., Krueger, P. (2015). Are nonphysician health care providers prepared and supported to teach in family medicine? Family Medicine. Vol. 47, pp. 187-193.

Sockalingam, S., Wnuk, S., Kantarovich, K., **Meaney, C.**, Okrainec, A., Hawa, R. (2015). Employment outcomes one year after bariatric surgery: the role of patient and psychosocial factors. Obesity Surgery. Vol. 25, pp. 514-522.

Beber, S., Antao, V., Telner, D., Krueger, P., Peranson, J., **Meaney, C.**, Meindl, M. (2015). Examining the teaching roles and experiences of non-physician health care providers in family medicine education: a qualitative study. BMC Medical Education. vol 15, pp. 1-7.

Skarsgard, E., **Meaney, C.**, Bassil, K., Brindle, M., Arbour, L., Moineddin, R. (2015). Maternal risk factors for gastroschisis in Canada. Birth Defects Research Part A: Clinical and Molecular Teratology. Vol 103, pp. 111-118.

Ahmed, S., Johnson, S., **Meaney, C.**, Chau, C., Marras, T. (2014). Lung function and survival in systemic sclerosis interstitial lung disease. The Journal of Rheumatology. Vol. 41, pp. 2326-2328.

Manca, D., Aubrey-Bassler, K., Kandola, K., Aguilar, C., Campbell-Scherer, D., Sopcak, N., O'Brien, M., **Meaney, C.**, Faria, V., Baxter, J., Moineddin, R., Salvalaggio, G., Green, L., Cave, A., Grunfeld, E. (2014). Implementing and evaluating a program to facilitate chronic disease prevention and screening in primary care. Implementation Science. Vol. 9, pp. 1-9.

Meaney, C., Moineddin, R. (2014). A Monte Carlo simulation study comparing linear regression, beta regression, variable-dispersion beta regression and fractional logit regression at recovering average difference measures in a two sample design. BMC Medical Research Methodology. Vol. 14, pp. 1-22.

Aliarzadeh, B., Greiver, M., Moineddin, R., **Meaney, C.**, White, D., Moazzam, A., Moore, K., Belanger, P. (2014). Association between SES and haemoglobin A1c in a Canadian primary care adult population without diabetes. BMC Family Practice. Vol. 15, pp. 1-12.

Grunfeld, E., Manca, D., Moineddin, R., Thorpe, K., Hoch, J., Campbell-Scherer, D., **Meaney, C.**, Rogers, J., Beca, J., Krueger, P., Mamdani, M., BETTER Trial Investigators. (2013). Improving chronic disease prevention and screening in primary care: Results of the BETTER pragmatic cluster randomized trial. BMC Family Practice. Vol. 14, pp. 1-9.

Sidiropoulos, C., Walsh, R., **Meaney, C.**, Poon, Y., Fallis, M., Moro, E. (2013). Low-frequency subthalamic nucleus deep brain stimulation for axial symptoms in advanced Parkinsons disease. Journal of Neurology. Vol. 260, pp. 2306-2311.

Marras, C., Schule, B., Munhoz, R., Rogaeva, E., Langston, J., Kasten, M., **Meaney, C.**, Klein, C., Wadia, P., Lim, S., Chuang, R., Zadikof, C., Steeves, T., Prakash, K., de Bie, R., Adeli, G., Thomsen, T., Johansen, K., Teive, H., Asante, A., Reginold, W., Lang, A. (2013). Measuring mild cognitive impairment in patients with Parkinsons disease. Movement Disorders. Vol. 28, pp. 626-633.

Philpott, J., Shiferaw, S., Rouleau, K., Cole, D., Nicolle, E., Bezanson, K., Pimlott, N., **Meaney, C.**, Nasmith, G., Abbyad, M., Derbew, M., Mekasha, A. (2013). Family medicine needs assessment: Studying the clinical work of general practitioners in Ethiopia. Ethiopian Journal of Health Development. Vol. 27, pp. 134-140.

McIsaac, W., Moineddin, R., **Meaney, C.**, Mazzulli, T. (2013). Antibiotic-resistant Escherichia Coli in women with acute cystitis in Canada. Canadian Journal Infectious Disease and Medical Microbiology. Vol. 24, pp. 143-149.

Reginold, W., Duff-Canning, S., **Meaney, C.**, Armstrong, M., Fox, S., Rothberg, B., Zadikoff, C., Kennedy, N., Gill, D., Eslinger, P., Marshall, F., Mapstone, M., Chou, K., Persad, C., Litvan, I., Mast, B., Tang-Wai, D., Lang, A., Marras, C. (2013). Impact of mild cognitive impairment on health related quality of life in Parkinsons disease. Dementia and Geriatric Cognitive Disorders. Vol. 36, pp. 67-75.

Armstrong, M., Naglie, G., Duff-Canning, S., **Meaney, C.**, Gill, D., Eslinger, P., Zadikoff, C., Mapstone, M., Chou, K., Persad, C., Litvan, I., Mast, B., Fox, S., Tang-Wai, D., Marras, C. (2012). Roles of education and IQ in cognitive reserve in Parkinsons disease-mild cognitive impairment. Dementia and Geriatric Cognitive Disorders. Vol. 2, pp. 343-352.

Greiver, M., Aliarzadeh, B., Moineddin, R., **Meaney, C.**, Ivers, N. (2011). Diabetes screening with hemoglobin A1c prior to a change in guideline recommendations: prevalence and patient characteristics. BMC Family Practice. Vol. 12, pp. 1-7.

Hamid, J., **Meaney, C.**, Crowcroft, N., Granerod, J., Beyene, J. (2011). Potential risk factors asso-

ciated with human encephalitis: application of canonical correlation analysis. BMC Medical Research Methodology. Vol. 11, pp. 1-10.

Moineddin, R., **Meaney, C.**, Agha, M., Zagorski, B., Glazier, R. (2011). Modelling factors influencing the demand for emergency department services in Ontario: a comparison of methods. BMC Emergency Medicine. Vol 11, pp. 13-26.

Marras, C., Schule, B., Munhoz, R., Rogaeva, E., Langston, J., Kasten, M., **Meaney, C.**, Klein, C., Wadia, P., Lim, S., Chuang, R., Zadikof, C., Steeves, T., Prakash, K., de Bie, R., Adeli, G., Thomsen, T., Johansen, K., Teive, H., Asante, A., Reginold, W., Lang, A. (2011). Phenotype in parkinsonian and nonparkinsonian LRRK2 G2019S mutation carriers. Neurology. Vol. 77, pp. 325-333.

Meaney, C., Johnston, C., Sykes, J. (2011). The process of selecting a disease status classifier using proteomic biomarkers. Canadian Journal of Statistics: vol. 39, pp. 210-211.

Castrioto, A., **Meaney, C.**, Hamani, C., Mazzella, F., Poon, Y., Lozano, A., Hodaie, M., Moro, E. (2011). The Dominant-STN phenomenon in bilateral STN DBS for Parkinsons disease. Neurobiology of Disease. Vol. 41, pp. 131-137.

Hamid, J., **Meaney, C.**, Crowcroft, N., Granerod, J., Beyene, J. (2010). Cluster analysis for identifying sub-groups and selecting potential discriminatory variables in human encephalitis. BMC Infectious Diseases. Vol. 10, pp. 1-11.

Rothman, L., Slater, M., **Meaney, C.**, Howard, A. (2010). Motor vehicle and pedestrian collisions: burden of severe injury on major versus neighbourhood roads. Traffic Injury Prevention. Vol. 11, pp. 43-47.

Peer-Reviewed Oral Conference Presentations

Meaney, C., Widdifield, J., Jaakkimainen, L., Escobar, M., Rudzicz, F., Tu, K. Learning Unsupervised Representations from Biomedical Text. International Population Data Linkage Network Conference. Sept. 12-14, 2018.

Meaney, C., Widdifield, J., Jaakkimainen, L., Escobar, M., Rudzicz, F., Tu, K. Using biomedical text as data and representation learning for identifying patients with an osteoarthritis phenotype in the electronic medical record. International Population Data Linkage Network Conference. Sept. 12-14, 2018.

Meaney, C., Greiver, M., Moineddin, R., Aliarzadeh, B., Sullivan, F. Probabilistic topic models and the use of primary care electronic health records for big data. North American Primary Care Research Group Conference. Oct. 24-28, 2015.

Meaney, C. Exploring the use of statistical and epidemiological methods in primary care research: text mining the open access literature. North American Primary Care Research Group Conference. Nov. 21-25, 2014.

Meaney, C., Kwan, B. Stepped-wedge designs in primary care research. North American Primary Care Research Group Conference. Nov. 21-25, 2014.

Meaney, C., Chipman ML. Motor Vehicle Collision Trends in Ontario's Young and Novice Drivers: A Retrospective Cohort Study from 2001-2006. Canadian Multidisciplinary Road Safety Conference. May 8-11, 2011.

Non Peer-Reviewed Book Chapters

Department of Family and Community Medicine. Tu, K. et. al. **Meaney, C.** (Contributing Editor). (2019). Inaugural University of Toronto Family Medicine Report.

Doria, A., Tomlinson, G., Beyene, J., Moineddin, R., **Meaney, C.**, Shaikh, M. (2018). Research methods in radiology: A practical guide. Thieme Publishers.

Meaney, C., Moineddin R. (2018). Chapter 13 (Research methods in radiology: a practical guide): Statistical inference: point estimation, confidence intervals, and hypothesis testing. Thieme Publishers.

Meaney, C., Moineddin R. (2018). Chapter 14 (Research methods in radiology: A practical guide): linear and logistic regression. Thieme Publishers.

Grant Involvement

Marras, C., Duff-Canning, S., Fox, S., Kennedy, J., Knight, J., Mapstone, M., Masellis, M., Meaney, C. (2013-2017). Predicting Outcome in Parkinsons Disease Cognitive Impairment. Grant Value: $183,364. Role: Co-investigator and lead biostatistician.

Sockalingham, S., Parikh, S., Cassin, S., Meaney, C. (2014). Telephone Based Cognitive Behavioural Therapy for Bariatric Surgery Patients: A Randomized Controlled Trial. Grant Value: $100,000. Role: Collaborator and lead biostatistician.

Student Collaboration

Biostatistics Practicum Students
Xu Zhao, Fall-Winter 2015: Association Rule Mining and Primary Care Medicine.
Xi Liu, Fall-Winter 2014: Exploring estimates of effect in the BETTER 2 program.
Shary Zhang, Fall-Winter 2014: Evaluation of a department wide work life and leadership survey.
Susan Wang, Fall-Winter 2013: Results of the BETTER 1 randomized controlled trial.

UT Faculty of Medicine CREMS Summer Research Students
Adam MacDowell, Summer 2014: Evaluating the Undergraduate Medical Education FMLE program.
Linda Lee, Summer 2013: Evaluating the Undergraduate Medical Education FMLE program.
Victor Vien, Summer 2012: Screening amongst the mentally ill patients in the BETTER 1 RCT.
Shawn Chhabra, Summer 2012: Evaluating the Undergraduate Medical Education FMLE program.
Jessica Yu, Summer 2011: Evaluating the Undergraduate Medical Education FMLE program..

Teaching

University of Toronto

Correlated Data Analysis (MSc and PhD Students in Biostatistics)
Teaching Assistant and Lecturer for Prof. Rahim Moineddin.
Winter 2012, Winter 2013, Winter 2014, Winter 2015, Winter 2016.

Introduction to Biostatistics I (MSc Students in Epidemiology)
Teaching Assistant for Prof. Kevin Thorpe.
Fall 2009.

Sick Kids Hospital

Research Methods in Radiology (UT Radiology medical residents/fellows)
Lecturer in Sample Size Determination in Clinical Research for Dr. Andrea Doria.
Fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019.

Biostatistics Design and Analysis Workshop Series (Researchers from Toronto Sick Kids Hospital)
Lecturer in Statistical Computing and Graphics Using R for Dr. Theresa To.
Spring 2014.

The University of Sao Paulo

> Research Methods in Radiology (Univ. Sao Paolo Radiology medical residents/fellows)
>> Lecturer in Sample Introductory Statistics in Clinical Research for Dr. Andrea Doria.
>> Lecturer in Sample Size Determination in Clinical Research for Dr. Andrea Doria.
>> Fall 2014.

Professional Service

R Users Group

> Organizer of the GTA R Users group: 2015-Present
>> Interest group that discusses R programming language

Google Hour of Code

> Co-organzier of the 2016 & 2017 Google Hour of Code at University of Toronto
>> Meet local high-school students and discuss/demo applications of statistical programming in science.

Honours & Awards

> IPDLN Conference Student Presentation Finalist
>> Selected as one of the top-3 student presentations at IPDLN Conference 2018.
>> Title: Learning Unsupervised Representations from Biomedical Text

> NVIDIA Academic GPU Granting Program (2017)
>> Recipient of a donation from NVIDIA, of one GeForce Titan X Pascal GPU (value $2000 USD).
>> The GPU is being used to facilitate the exploration of deep learning methods in primary care research.

> Dr. Lindsay E Nicolle Award (Best Paper).
>> Canadian Journal of Infectious Disease and Medical Microbiology, 2014, (co-recipient).
>> Title: Antibiotic-Resistant Escherichia Coli in Women with Acute Cystitis in Canada.

> Family Medicine Forum (Best Research Poster).
>> The College of Family Physicians of Canada, 2013, (co-recipient).
>> Title: Pre-Clerkship Family Medicine Clinical Experience: Is it Making a Difference?.

> Family Medicine Forum Research Pearls (Best Program of Research).
>> The College of Family Physicians of Canada, 2013, (co-recipient).
>> Title: Finding a BETTER Way: A CDPS Program in Primary Care.

> Excellence in Research in Professional Development.
>> Dept. of Family and Community Medicine, 2013, (co-recipient).
>> Title: Roles of academic non-physician health care professionals in family medicine teaching.

> Excellence in Research in Professional Development.
>> Dept. of Family and Community Medicine, 2012, (co-recipient).
>> Title: Understanding and Improving Work, Life and Leadership among Family Medicine Faculty.