

Harlan Campbell

harlancampbell@gmail.com

EDUCATION

University of British Columbia, PhD Candidate - Statistics Supervisor: Prof. Paul Gustafson	ongoing September, 2015-
Simon Fraser University, Master of Science - Statistics Supervisor: Prof. Charmaine Dean	Sept, 2009-Dec, 2011
McGill University, Bachelor of Science - Mathematics Minor concentration in music	Sept, 2004-Dec, 2008

EMPLOYMENT

EMMES Canada CRO –Statistician Providing statistical services as a partner to clinicians and scientists	ongoing (casual) July, 2012-Oct, 2017
Cardiome Pharma –Statistics Intern	Sept-Dec, 2011
Independent Environmental Consulting Clients include: Taking Root (2015-2017) SFU Glaciology Research (2015) Culex Environmental (2011-2012)	

TEACHING

Instructor – UBC Dept. of Statistics Teaching (and coordinator) of STAT 306 for 145 undergraduate students (all sections)	Jan.-May, 2018
Graduate Teaching Assistant – UBC Dept. of Statistics Teaching, grading, and coordinating labs for SCIE 300 and STAT 404	2017-2018
Graduate Teaching Assistant – SFU Dept. of Statistics and Actuarial Science Teaching and grading for various courses	2009-2010

RESEARCH

Statistics Publications

1. The world of research has gone berserk: modeling the consequences of requiring “greater statistical stringency” for scientific publication, H Campbell and P Gustafson, accepted to The American Statistician, special issue on Statistical Inference in the 21st Century, 73.sup1 (2019): 358 - 373, [link](#)

2. Is it even rainier in North Vancouver? A non-parametric rank-based test for semicontinuous longitudinal data, H Campbell, *Journal of Applied Statistics*, 46:7 (2019): 1155 - 1176. [link](#)
3. The validity and efficiency of hypothesis testing in observational studies with time-varying exposures, H Campbell and P Gustafson, *Observational Studies*, (2018), [link](#)
4. Conditional equivalence testing: an alternative remedy to publication bias, H Campbell and P Gustafson, *PLoS ONE* 13(4): e0195145 (2018). [link](#)
5. Twin data that made a big difference, and that deserve to be better-known and used in teaching, H Campbell, JA Hanley, *Journal of Statistical Education*, 25.3 (2017): 131-136. [link](#)
6. The consequences of proportional-hazards based model selection, H Campbell and CB Dean, *Statistics in Medicine*, 33.6, (2014): 1042-1056. [link](#)
7. Model-based clustering of longitudinal data: application to modeling disease course and gene expression trajectories, A Ciampi, H Campbell, A Dyachenko, B Rich, J McCusker, and MG Cole, *Communications in Statistics-Simulation and Computation*, 41.7 (2012): 992-1005. [link](#)

Applied Publications

1. Comparison of hemoglobin A1c results based on at-home and in-lab dried blood spot sampling to routine venous blood sampling in-lab in adult patients with type 1 or type 2 diabetes, TG Elliott, KC Dooley, M Zhang, H Campbell, DJS Thompson, *Canadian Journal of Diabetes*, 42.4 (2018): 426-432.e1. [link](#)
2. Sleep assessments for a mild traumatic brain injury trial in a military population, JM Walker, NT James, H Campbell, SH Wilson, S Churchill, LK Weaver, *Undersea and Hyperbaric Medicine Journal*, 43.5, (2016). [link](#)
3. Comparison of reducing epicardial fat by exercise, diet or bariatric surgery weight loss strategies: A systematic review and meta-analysis, S Rabkin and H Campbell, *Obesity Reviews*, 16.5 (2015): 406-415. [link](#)
4. Impact on diabetes care of access to an online patient portal, M Lau, H Campbell, T Tang, DJS Thompson, and T Elliott, *Canadian Journal of Diabetes*, 38.1 (2014): 17-21. [link](#)
5. Modelling factors that affect the presence of larval mosquitoes (diptera: culicidae) in stormwater drainage systems to improve the efficacy of control programmes, MJ Jackson, JL Gow, MJ Evelyn, TJS McMahon, H Campbell, J Sheppard, TJ Howay, D Fladmark, A Thielman, *The Canadian Entomologist*, 145.06 (2013): 674-685. [link](#)
6. An evaluation of the effectiveness of a commercial mechanical trap to reduce abundance of adult nuisance mosquito populations, MJ Jackson, JL Gow, MJ Evelyn, TJS McMahon, TJ Howay, H Campbell, J Blancard, and A Thielman, *Journal of the American Mosquito Control Association*, 28.4 (2012): 292-300. [link](#)

Working Papers

1. What to make of non-inferiority and equivalence testing with a post-specified margin?, H Campbell and P Gustafson, submitted to Pharmaceutical Statistics. [pre-print](#)
2. Equivalence testing for standardized effect sizes: application, implementation and interpretation, H Campbell and D Lakens, working draft.
3. To make more published research true, should scientists adopt alternatives to null hypothesis significance testing?, H Campbell and P Gustafson, in preparation for submission to Statistical Science.

Conference Presentations

Conditional equivalence testing, H Campbell*, P Gustafson; The 46th Annual Meeting of the Statistical Society of Canada, Montreal, 2018. Invited talk.

What to make of non-inferiority and equivalence testing with a post-specified margin?, H Campbell*; Joint Statistical Meetings (JSM), Vancouver, 2018.

A non-parametric rank based test for semicontinuous longitudinal data, H Campbell*; The 44th Annual Meeting of the Statistical Society of Canada, St. Catharines, 2016.

The consequences of proportional-hazards based model selection, H Campbell*, CB Dean; The Society for Clinical Trials 34th Annual Meeting, Boston, 2013.

Survival analysis of British Columbia wildland fires, H Campbell*, CB Dean; GEOIDE Forestry Virtual Meeting, 2011.

Data visualization in R, H Campbell*, SFU-UBC Joint Graduate Student Workshop in Statistics, Vancouver, 2011.

SERVICE

Organizer of the Constance van Eeden seminar (2017 and 2018)

Peer Review

Journal of Applied Statistics

Canadian Journal of Diabetes

Obesity Reviews

Journal of Statistical Computation and Simulation

Journal of Statistical Education

REFERENCES

Dr. Paul Gustafson, 604-822-1300, gustaf@stat.ubc.ca

Dr. John Petkau, 604-822-4673, john@stat.ubc.ca

Dr. Charmaine Dean, vpresearch@uwaterloo.ca

Dr. Nancy Heckman, nancy@stat.ubc.ca

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