

# Harlan Campbell

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## 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

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

## TEACHING

<b>Instructor</b> – UBC Dept. of Statistics Teaching (and coordinator) of <a href="#">STAT 306</a> for 145 undergraduate students (all sections)	Jan.-May, 2018
<b>Graduate Teaching Assistant</b> – UBC Dept. of Statistics Teaching, grading, and coordinating labs for SCIE 300 and STAT 404	2017-2018
<b>Graduate Teaching Assistant</b> – 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, (2019), in press. [pre-print](#)
2. Is it even rainier in North Vancouver? A non-parametric rank-based test for semicontinuous longitudinal data, H Campbell, Journal of Applied Statistics, (2018), in press. [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*, in press (2017), 7 pages. [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](mailto:gustaf@stat.ubc.ca)

Dr. John Petkau, 604-822-4673, [john@stat.ubc.ca](mailto:john@stat.ubc.ca)

Dr. Charmaine Dean, [vpresearch@uwaterloo.ca](mailto:vpresearch@uwaterloo.ca)

Dr. Nancy Heckman, [nancy@stat.ubc.ca](mailto:nancy@stat.ubc.ca)

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