

Harlan Campbell

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EDUCATION

University of British Columbia, PhD - Statistics Supervisor: Prof. Paul Gustafson	Sept, 2015 - June, 2019
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

Postdoctoral Research Fellow Funding provided by ReCoDID (EU Horizon 2020, CIHR) and the WHO	July, 2019 -
EMMES Canada CRO –Statistician Providing statistical services as a partner to clinicians and scientists	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 Stat, 2019. [pre-print](#)
2. Can we disregard the whole model? Omnibus non-inferiority testing for R^2 in multivariable linear regression and $\hat{\eta}^2$ in ANOVA., H Campbell and D Lakens, submitted to the British Journal of Mathematical and Statistical Psychology, 2019. [pre-print](#)
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.
4. Measurement Error in Individual Participant Data Meta-Analysis - a Bayesian framework for continuous outcome data, H Campbell and P Gustafson, working draft.
5. The consequences of checking for overdispersion and zero-inflation, H Campbell, working draft.

Conference Presentations

Can we disregard the whole model? Omnibus non-inferiority testing for R^2 in multivariable linear regression and $\hat{\eta}^2$ in ANOVA., H Campbell and D Lakens; The 47th Annual Meeting of the Statistical Society of Canada, Calgary, 2019.

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 & AWARDS

Leadership:

Organizer of the Constance van Eeden seminar (2017 and 2018) [link](#)

Peer Review:

Journal of Applied Statistics
Canadian Journal of Diabetes
Obesity Reviews
Journal of Statistical Computation and Simulation
Journal of Statistical Education

Awards:

2019 Marshall Prize from UBC Statistics for “great distinction according to the professional and academic criteria” [link](#)

Personal website: <https://harlanhappydog.github.io/>