


Glen McGee, PhD

Department of Statistics and Actuarial Science
University of Waterloo
Waterloo, ON, Canada N2L 3G1

glen.mcgee@uwaterloo.ca
glenmcgee.github.io
ORCID 

Current Position	<i>Assistant Professor</i> Department of Statistics and Actuarial Science University of Waterloo	2020—
Education	<i>PhD in Biostatistics</i> Harvard University, Cambridge, MA Dissertation: Topics in Cluster-Correlated Data Committee: Sebastien Haneuse, Brent Coull, Sharon-Lise Normand	2014–2019
	<i>MA in Biostatistics</i> Harvard University, Cambridge, MA GPA: 3.97/4.00	2014–2016
	<i>BScH in Mathematics and Economics</i> Queens University, Kingston, ON GPA: 4.19/4.30	2010–2014
Research & Consulting Experience	<i>Postdoctoral Researcher</i> Statistical methods for multigenerational studies in epidemiology Modelling high-dimensional mixtures of environmental pollutants Non-random ascertainment of disease in electronic medical records	2019–2020
	<i>Doctoral Researcher</i> Informatively empty clusters in multigenerational studies Motivated by non-mothers in third-generation ADHD research Exposure misclassification when cluster size is informative Motivated by recall bias in reporting multigenerational exposures Outcome-dependent sampling designs for correlated data Motivated by hospital profiling using Medicare claims data	2015–2019
	<i>Research Assistant</i> Correcting for measurement error in case-crossover designs	2016–2019
	<i>Statistical Consultant</i> Time series analysis of the effectiveness of pneumonia vaccine (Ecuador) Analysis of malpractice claims against resident physicians (USA)	2017–2018
	<i>Biostatistics Student Consultant</i> Biostatistics Student Consulting Center, Harvard University, Boston, MA	2016–2019
	<i>Summer Research Assistant</i> Financial Studies Division, Bank of Canada, Ottawa, ON Statistical modelling of non-bank payment database	Summer 2013

Teaching	Instructor	
	<i>University of Waterloo</i>	
	Applied Linear Models (STAT 331)	Winter 2021
	<i>Harvard University</i> (avg. student eval.)	
	Biostatistics Prep Course: Introductory Probability (4.9/5.0)	August 2018
	Biostatistics Prep Course: Introductory Probability (4.9/5.0)	August 2017
	Teaching Assistant	
	<i>Harvard University</i> (avg. student eval.)	
	Statistical Methods (4.7/5.0)	Fall 2018
	Analysis of Multivariate and Longitudinal Data (4.0/5.0)	Spring 2017
	Statistical Methods I (4.9/5.0)	Fall 2016
	Regression and ANOVA in Experimental Research (4.7/5.0)	Fall 2015
	<i>Queens University</i> (grading only)	
	Linear Algebra (NA)	Fall 2013
	Introduction to Linear Algebra (NA)	Spring 2012
Advising Experience	Ruofan Bie (Biostatistics; MS student)	Summer 2019—
	Co-advised project on small sample bias in GEE and marginalized multilevel models	
Editorial	<i>Statistical Reviewer</i> for JAMA Network Open	2019—
	<i>Ad-Hoc Referee:</i>	
	Biometrics	
	Statistical Methods in Medical Research	
	Biostatistics	
	American Journal of Epidemiology	
	JAMA Network Open	
	Epidemiologic Methods	
	American Journal of Infection Control	
Computing Experience	<i>R (Expert)</i>	
	Including: Rcpp (C++); tidyverse; ggplot2; ShinyR; Plotly; R-Markdown	
	<i>Some experience:</i> Python; Stata; SAS	
Awards	Young Investigator Award (ASA Section on Statistics in Epidemiology)	2020
	Certificate of Distinction in Teaching (Department of Biostatistics)	2019
	ENAR Distinguished Student Paper Award	2019
	International Conference on Health Policy Statistics Travel Award	2018
	Harvard University Certificate of Distinction in Teaching (Derek Bok Center)	2016
	NSERC CGS-M Award (Declined in favor of Harvard funding)	2014
	Albert Harold Lightstone Scholarship	2013
	Nellie and Ralph Jeffery Award in Mathematics	2012, 2013
	James H Rattray Scholarship in Science	2012
	Queen's Appeal Undergraduate Scholarship	2011
	Annie Bentley Lillie Prize In First Year Calculus	2011
	Dean's Honour List with Distinction	2010, 2011
	Queen's University Excellence Scholarship	2010

Professional Associations	ASA Member SSC Member	2019– 2021–
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Publications * indicates co-first authorship.

McGee, G., Weisskopf, M. G., Kioumourtzoglou, M. A., Coull, B. A., and Haneuse, S. (2019). “Informatively empty clusters with application to multigenerational studies”. *Biostatistics*. DOI:10.1093/biostatistics/kxz005

McGee, G., Schildcrout, J., Normand, S.-L. and Haneuse, S. (2020). “Outcome-Dependent Sampling in Cluster-Correlated Data Settings with Application to Hospital Profiling.” *Journal of the Royal Statistical Society: Series A*. DOI:10.1111/rssa.12503

Coull, B., Lee, S., **McGee, G.**, Manjourides, J., Mittleman, M., and Wellenius, G. (2019). “Corrections for Measurement Error Due to Delayed Onset of Illness for Case-Crossover Designs.” *Biometrics*. DOI:10.1111/biom.13173

Glover, M., **McGee, G.**, Wilkinson, D., Singh, S., Bolick, A., Betensky, R., Harvey, H. B., Weinstein, D., and Schaffer, A. (2020). “Characteristics of Paid Malpractice Claims Among Resident Physicians from 2001-2015.” *Academic Medicine*. DOI:10.1097/ACM.0000000000003039

McGee, G., Perkins, N. J., Mumford, S. L., Kioumourtzoglou, M. A., Weisskopf, M. G., Schildcrout, J. S., Coull, B., Schisterman, E., and Haneuse, S. (2020). “Methodological Issues in Population-Based Studies of Multigenerational Associations.” *American Journal of Epidemiology*. DOI:10.1093/aje/kwaa125

McGee, G., Kioumourtzoglou, M.-A., Weisskopf, M., Haneuse, S., and Coull, B. (2020). “On the Interplay Between Exposure Misclassification and Informative Cluster Size in Multigenerational Studies.” *Journal of the Royal Statistical Society: Series C*. DOI:10.1111/rssc.12430

Allen, W. E.*, Altae-Tran, H.*, Briggs, J.*, Jin, X.*, **McGee, G.***, Andy Shi*, Raghavan, R., Kamariza, M., Nova, N. . . . Zhang, F., and Lin, X. (2020). Population-scale Longitudinal Mapping of COVID-19 Symptoms, Behavior, and Testing Identifies Contributors to Continued Disease Spread in the United States. *Nature Human Behaviour*. DOI:10.1038/s41562-020-00944-2

Sotomayor, R. J., Toscano, C. M., Choez, X. S., Ortíz, M. V., Condo, J. R., Ghisays, G., Haneuse, S., Weinberger, D. M., **McGee, G.**, & de Oliveira, L. H. (2020). “Impact of pneumococcal conjugate vaccine on pneumonia hospitalization and mortality in children and elderly in Ecuador: Time series analyses.” *Vaccine*, 38(45), 7033-7039. DOI:10.1016/j.vaccine.2020.09.032

Manuscripts In Preparation	Bie, R., Haneuse, S., Huey, N., Schildcrout, J. and McGee, G. “Fitting Marginal Models in Small Samples: A Simulation Study of Marginalized Multilevel Models and Generalized Estimating Equations.” <i>Submitted</i>
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Quante, M. D., **McGee, G. W.**, Yu, X., Ash, T., Luo, M., Kaplan, E. R., Rueschman, M., Haneuse, S., Davison, K., Redline, S., Taveras, E. M. “Multilevel Determinants of Infant Sleep Duration and Continuity.” *In preparation*.

McGee, G. W., Wilson, A., Webster, T., Coull, B. “Bayesian Multiple Index Models for Environmental Mixtures.” *Submitted*. arXiv preprint arXiv:2101.05352

McGee, G. W., Haneuse, S., Coull, B., Weisskopf, M., Rotem, R. “On the Nature of Informative Presence Bias in Analyses of Electronic Health Records.” *Submitted*.

Presentations

- 2020 Invited Seminar, International Conference on Computational and Methodological Statistics (CMStatistics 2020), London, UK. (Virtually). “On the Interplay Between Exposure Misclassification and Informative Cluster Size.”
- 2020 Invited Seminar, Student Seminar Series, Department of Statistics and Actuarial Science, University of Waterloo, ON. (Virtually). “Bayesian Multiple Index Models for Multi-Pollutant Mixtures.”
- 2020 Invited Oral Presentation, Health Data Science Lab, University of Waterloo, ON. (Virtually). “Bayesian Multiple Index Models for Multi-Pollutant Mixtures.”
- 2020 New Investigator Lightning Talk, NIEHS PRIME Program Grantee Meeting, NIEHS, Durham, NC (Virtually). “Bayesian Single and Multiple Index Models for Multi-Pollutant Mixtures.”
- 2020 Contributed Oral Presentation, Joint Statistical Meetings, Philadelphia, PA (Virtually). “On the Interplay Between Exposure Misclassification and Informative Cluster Size.”
- 2020 Contributed Oral Presentation, ENAR Spring Meeting, Nashville, TN (Virtually). “On the Interplay Between Exposure Misclassification and Informative Cluster Size.”
- 2020 Invited Seminar, Department of Biostatistics, University of Toronto, Toronto, ON. “Methodological Problems in Multigenerational Epidemiology.”
- 2020 Invited Seminar, Department of Statistics and Actuarial Science, University of Waterloo, ON. “Methodological Problems in Multigenerational Epidemiology.”
- 2019 Invited Seminar, International Conference on Computational and Methodological Statistics (CMStatistics 2019), London, UK. “Outcome-Dependent Sampling with Application to Hospital Profiling.”
- 2019 Invited Seminar, Department of Biostatistics, Vanderbilt University Medical Center, Nashville, TN. “Methodological Problems in Multigenerational Epidemiology.”
- 2019 Oral presentation, Nurses Health Study Meeting, Brigham and Women’s Hospital, Boston, MA. “On the Interplay Between Exposure Misclassification and Informative Cluster Size.”
- 2019 Contributed Oral Presentation, ENAR Spring Meeting, Philadelphia, PA. “Informatively Empty Clusters with Application to Transgenerational Studies.”
- 2019 Quantitative Issues in Cancer Research Working Seminar, Department of Biostatistics, Harvard University, Boston, MA. “Methodological Considerations for Studies of Multigenerational and Transgenerational Effects.”
- 2019 Invited Seminar, Department of Mathematics and Statistics, York University, Toronto, ON. “Informatively Empty Clusters and Multigenerational Studies.”
- 2018 Oral presentation, Nurses Health Study Meeting, Brigham and Women’s Hospital, Boston, MA. “Informatively Empty Clusters with Application to Transgenerational Studies.”

- 2018 Contributed oral presentation, Joint Statistical Meetings, Vancouver, BC. "On the Impact of Empty Clusters."
- 2018 Working Group on Outcome-Dependent Sampling, National Institute of Child Health and Human Development (NIH), Bethesda, MD. "Statistical Considerations for Transgenerational Studies."
- 2018 Poster presentation, Harvard/MIT ACE Science Advisory Committee Meeting, Boston, MA. "Corrections for Measurement Error Due to Delayed Onset of Illness for Case-Crossover Designs."
- 2018 Contributed oral presentation, International Conference on Health Policy Statistics, Charleston, SC. "Outcome-Dependent Sampling in Cluster-Correlated Data Settings with Application to Hospital Profiling."
- 2017 Contributed oral presentation, Eastern North American Region Spring Meeting, Washington, DC. "Outcome-Dependent Sampling in Cluster-Correlated Data Settings with Application to Hospital Profiling."
- 2016 Invited seminar, Environmental Statistics Seminar Series, Harvard University. "Corrections for Measurement Error Due to Delayed Onset of Illness in Case-Crossover Designs."
- 2016 Working Group on Outcome-Dependent Sampling, National Institute of Child Health and Human Development (NIH), Bethesda, MD. "Mixed Effects Models Under Outcome Dependent Sampling."
- 2015 P01/Environmental Statistics Retreat, Wellesley College Club, MA. "Mixed Effects Models Under Outcome Dependent Sampling."
- 2015 Summer Research Presentation, Department of Biostatistics, Harvard University, Cambridge, MA. "Generalized Linear Mixed Models Under Outcome Dependent Sampling."
- 2013 Oral presentation, Financial Stability Department, Bank of Canada. "The Role of Non-Banks in the Payment Industry: Adoption and Use."