

Glen McGee, PhD

Department of Biostatistics
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Citizenship: Canadian

Education	<i>PhD in Biostatistics</i>	2014–2019
	Harvard University, Cambridge, MA Dissertation: Topics in Cluster-Correlated Data Committee: Sebastien Haneuse, Brent Coull, Sharon-Lise Normand	
	<i>MA in Biostatistics</i>	2014–2016
	Harvard University, Cambridge, MA	
	<i>BScH in Mathematics and Economics</i>	2010–2014
	Queens University, Kingston, ON	
Research & Consulting	<i>Postdoctoral Researcher</i>	2019–
	Statistical methods for multigenerational studies in epidemiology Modelling high-dimensional mixtures of environmental pollutants Non-random ascertainment of disease in electronic medical records	
	<i>Doctoral Researcher</i>	2015–2019
	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	
	<i>Research Assistant</i>	2016–2019
	Correcting for measurement error in case-crossover designs	
	<i>Statistical Consultant</i>	2017–2018
	Time series analysis of the effectiveness of pneumonia vaccine (Ecuador) Analysis of malpractice claims against resident physicians (USA)	
	<i>Biostatistics Student Consultant</i>	2016–2019
	Biostatistics Student Consulting Center, Harvard University, Boston, MA	
	<i>Summer Research Assistant</i>	Summer 2013
	Financial Studies Division, Bank of Canada, Ottawa, ON Statistical modelling of non-bank payment database	
Teaching	Course Instructor	
	<i>Harvard University</i>	
	Introductory Probability	August 2018
	Introductory Probability	August 2017

Teaching (Continued)	Teaching Assistant Harvard University Statistical Methods Analysis of Multivariate and Longitudinal Data Statistical Methods I Regression and ANOVA in Experimental Research Queens University (grading only) Linear Algebra Introduction to Linear Algebra	Fall 2018 Spring 2017 Fall 2016 Fall 2015 Fall 2013 Spring 2012
Advising Experience	Ruofan Bie (Biostatistics; MS student) Co-advising project on small sample bias in GEE and marginalized multilevel models	Summer 2019—
Editorial	Statistical Reviewer for JAMA Network Open Ad-Hoc Referee: Biometrics American Journal of Epidemiology JAMA Network Open Epidemiologic Methods	2019—
Computing Experience	R (Expert) Including: Rcpp (C++); tidyverse; ggplot2; ShinyR; Plotly; R-Markdown Some experience: Python; Stata; SAS	
Awards	Certificate of Distinction in Teaching (Department of Biostatistics) ENAR Distinguished Student Paper Award International Conference on Health Policy Statistics Travel Award Harvard University Certificate of Distinction in Teaching (Derek Bok Center) Albert Harold Lightstone Scholarship Nellie and Ralph Jeffery Award in Mathematics James H Rattray Scholarship in Science Queen's Appeal Undergraduate Scholarship Annie Bentley Lillie Prize In First Year Calculus Dean's Honour List with Distinction Queen's University Excellence Scholarship	2019 2019 2018 2016 2013 2012, 2013 2012 2011 2011 2010, 2011 2010
Professional Associations	ASA Member	2018–2019
Publications & Submitted Manuscripts	McGee, G., Weisskopf, M. G., Kioumourtzoglou, M. A., Coull, B. A., and Haneuse, S. (2019). “Informatively empty clusters with application to multigenerational studies”. <i>Biostatistics</i> . DOI:10.1093/biostatistics/kxz005 McGee, G., Schildcrout, J., Normand, S.-L. and Haneuse, S. (2019). “Outcome-Dependent Sampling in Cluster-Correlated Data Settings with Application to Hospital Profiling.” <i>Journal of the Royal Statistical Society: Series A</i> . 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.” <i>Biometrics</i> (In press). 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. (2019). “Characteristics of Paid Malpractice Claims Among Resident Physicians from 2001-2015.” *Academic Medicine* (In press). DOI:10.1097/ACM.0000000000003039

McGee, G., Kioumourtzoglou, M.-A., Weisskopf, M., Haneuse, S., and Coull, B. “On the Interplay Between Exposure Misclassification and Informative Cluster Size in Multigenerational Studies.” *Under review*. arXiv preprint arXiv:1910.07438

McGee, G., Perkins, N., Mumford, S., Kioumourtzoglou, M.-A., Weisskopf, M., Schildcrout, J., Coull, B., Schisterman, E., and Haneuse, S. “Methodological Issues in Population-Based Studies of Multigenerational Effects.” *In revisions at American Journal of Epidemiology*.

Manuscripts In Preparation

Bie, R., Haneuse, S., Huey, N., Schildcrout, J. and **McGee, G.** “Small Sample Bias in Population-Averaged Models: Comparing Generalized Estimating Equations and Marginalized Multilevel Models.” *In preparation*

Sotomayor, R., Toscano, C., Sanchez, X., Vilema, M., Rivas, J., Ghisays, G., Haneuse, S., Weinberger, D., **McGee, G.** and de Oliveira, L. “Impact of pneumococcal conjugate vaccine on pneumonia hospitalization and mortality in children and elderly in Ecuador: time series analyses.” *In preparation*

Presentations

- 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, Boston, 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."