

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	
	<i>Harvard University</i>	
	Statistical Methods	Fall 2018
	Analysis of Multivariate and Longitudinal Data	Spring 2017
	Statistical Methods I	Fall 2016
	Regression and ANOVA in Experimental Research	Fall 2015
	<i>Queens University (grading only)</i>	
	Linear Algebra	Fall 2013
	Introduction to Linear Algebra	Spring 2012
Advising Experience	Ruofan Bie (Biostatistics; MS student)	Summer 2019—
	Co-advising 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	
	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
	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	2018–2019
Publications	* indicates co-first authorship.	
	<p>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</p>	
	<p>McGee, G., Schildcrout, J., Normand, S.-L. and Haneuse, S. (2020). “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</p>	

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 (to appear)*. medrxiv: 10.1101/2020.06.09.20126813

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.” *Submitted*

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 revisions*

Presentations

- 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 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."