Glen McGee, PhD

| Department of Sta University of Wate Waterloo, ON, Car | tistics and Actuarial Science rloo nada N2L 3G1 | glen.mcgee@uwaterloo.ca glenmcgee.github.io ORCID (D) |
|--|---|--|
| Current Position | Assistant Professor Department of Statistics and Actuarial Science University of Waterloo | 2020— |
| Education | PhD in Biostatistics Harvard University, Cambridge, MA | 2014-2019 |
| | MA in Biostatistics Harvard University, Cambridge, MA | 2014-2016 |
| | BScH in Mathematics and Economics Queens University, Kingston, ON | 2010-2014 |
| Other Experience | Postdoctoral Researcher Harvard T.H. Chan School of Public Health, Boston, MA Statistical modelling of non-bank payment database | 2019–2020 |
| Teaching | Instructor University of Waterloo STAT 931: Causal Inference and Epidemiological Studie STAT 431/831: Generalized Linear Models and their Ap Fall 2022 STAT 331: Applied Linear Models Fall 2022 | rs Fall 2023 oplications 2, Spring 2023, Spring 2022 , Spring 2021, Winter 2021 |
| | Harvard University (avg. student eval.) Biostatistics Prep Course: Introductory Probability | August 2018, 2017 |
| | Teaching Assistant <i>Harvard University</i> Statistical Methods Analysis of Multivariate and Longitudinal Data Statistical Methods I Regression and ANOVA in Experimental Research | Fall 2018 Spring 2017 Fall 2016 Fall 2015 |
| | Queens University (grading only) Linear Algebra Introduction to Linear Algebra | Fall 2013 Spring 2012 |
| Department Service | Associate Director of Statistical Consulting and Survey F Previous: Asst. to the Director, Statistical Consulting and 2023 | Research Unit 2023— Collaboration Unit 2020— |
| | MMath Admissions committee | 2023— |

| Editorial | Statistical Reviewer for JAMA Network Open | 2019— | |
|--------------|---|--------------------|--|
| | Ad-Hoc Referee: | | |
| | American Journal of Epidemiology | | |
| | American Journal of Infection Control | | |
| | Biometrics | | |
| | Biostatistics Communications Medicine | | |
| | Environmental Health Perspectives | | |
| | Epidemiologic Methods | | |
| | Epidemiology | | |
| | Fertility and Sterility | | |
| | JAMA Network Open | | |
| | Journal of Agricultural, Biological, and Environmental Statistics | | |
| | Statistical Methods in Medical Research | | |
| | Statistics in Medicine | | |
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| | Grant Review: | | |
| | MADRES Center for Environmental Health Disparities Environmenta parities Research (USC), Pilot Projects Program | l Health Dis- | |
| | | | |
| Professional | Session chair for CANSSI-NISS | 2023 | |
| Activities | Session chair for JSM 2022 Biometrics Session | 2022 | |
| | | 2021, 2022 | |
| Awards | Banting-CANSSI Ontario Discovery Award in Data Science | 2021 | |
| | ISGlobal Exposome Data Challenge Prize (Committee Vote) | 2021 | |
| | Young Investigator Award (ASA Section on Statistics in Epidemiology |) 2020 | |
| | ENAR Distinguished Student Paper Award | 2019 | |
| | International Conference on Health Policy Statistics Travel Award | 2019 | |
| | 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 Appie Bontley Lillie Drize In First Veer Colculus | 2011 | |
| | Dean's Honour List with Distinction | 2011 2011 | |
| | Queen's University Excellence Scholarship | 2010, 2011 2010 | |
| Funding | Active | | |
| | NSERC Discovery Grant | 2022-2027 | |
| | Investigator. RGPIN-2022-03068. 2022-04-01—2027-03-31 Total: \$107,500 (Including Discovery Launch Supplement: \$12,500) | | |
| | New Frontiers in Research Fund – Exploration | 2022-2024 | |
| | Being confident in the discovery of new physics from cosmological observations. | | |

| | NFRFE-2021-00595. 2022/03/31—2024/03/30. Role: Co-applicant (PI: Will Percival). Total: $250,000$ | | |
|------------------------------|---|---------------------------------------|--|
| | University of Waterloo New Faculty Startup Grant 202 Internal. 2020-09-01—2025-08-30. Total: \$60,000 | 0-2025 | |
| | CompletedBanting-CANSSI Ontario Discovery Award in Data Science202Addressing Informative Presence Bias in Analyses of Electronic Health R2021/07/01—2022/06/30. Role: Principal Investigator. Total: \$18,241 | 1–2022 ecords. | |
| Professional Associations | ASA Member SSC Member | 2019– 2021– | |
| Submitted Manuscripts | Pan, T., Stringer, A., and McGee, G. "Marginal and Conditional Inference in Bayesian Hierarchical Additive Models in Ecology." <i>Submitted.</i> | | |
| | Wen, L. & McGee , G. "Estimating Average Causal Effects with Incomplete sure and Confounders." (2024+) <i>Submitted</i> . | Expo- | |
| Publications | * indicates co-first authorship. | | |
| | Paradiso, S., DiMarco, M., Chen, M., McGee, G. , & Percival, W. J. (2024). "A convenient approach to characterizing model uncertainty with application to early dark energy solutions of the Hubble tension." <i>Monthly Notices of the Royal Astronomical Society, stae101.</i> DOI:10.1093/mnras/stae101 | | |
| | McGee, G.*, Stringer, A.* "Marginal additive models for population-avera ference in longitudinal and cluster-correlated data." (2023) Scandinavian Jou Statistics. DOI:10.1111/sjos.12681 | ged in- ırnal of | |
| | Génard-Walton, M., McGee, G. , Williams, P., Souter, I., Ford, J., Chavarro, J., Calafat, A., Hauser, R., Mínguez-Alarcón, L. for the Earth Study Team. "Mixtures of urinary concentrations of phenols and phthalate metabolites in relation to markers of ovarian function among women from a fertility clinic" (2023). <i>Science of the Total Environment</i> DOI:10.1016/j.scitotenv.2023.165536 | | |
| | McGee, G., Génard-Walton, M., Williams, P., Chavarro J., Meekeri, J., Braun, J., de Poorterek, R., Broerenk, M., Ford, J., Calafatl, A., Hauserd, R., Mínguez-Alarcón L., for the Earth Study Team. "The association of maternal urinary concentrations of phenols, individually and as a mixture, with serum biomarkers of thyroid function and autoimmunity: results from the EARTH Study" (2023). <i>Toxics</i> . DOI:10.3390/toxics11060521 | | |
| | McGee, G., Wilson, A., Coull, B., Webster, T. "Integrating Biological Knowledge in Kernel-Based Analyses of Environmental Mixtures and Health." (2023) <i>Statistics</i> in Medicine. DOI:10.1002/sim.9765 | | |
| | Yim, G., McGee, G. , Gallagher, L., Baker, E., Jackson, B.P., Calafat, Botelho, J.C., Gilbert-Diamond, D., Karagas, M.R., Romano, M.E. and How (2023). "Metals and per-and polyfluoroalkyl substances mixtures and birth ou in the New Hampshire birth cohort study: Beyond single-class mixture approx | A.M., e, C.G. tcomes aches." | |
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Chemosphere. DOI:10.1016/j.chemosphere.2023.138644

Quante, M., McGee, G., Yu, X., von Ash, T., Luo, M., Kaplan, E. R., Rueschman, M., Haneuse, S., Davison, K., Redline, S., Taveras, E. M. (2022) "Associations of sleep-related behaviors and the sleep environment at infant age one month with sleep patterns in infants five months later." *Sleep Medicine*. DOI:10.1016/j.sleep.2022.03.019

McGee, G., Haneuse, S., Coull, B., Weisskopf, M., Rotem, R. (2022). "On the Nature of Informative Presence Bias in Analyses of Electronic Health Records." *Epi-demiology*. DOI:10.1097/EDE.00000000001432

McGee, G., Wilson, A., Webster, T., Coull, B. (2021) "Bayesian Multiple Index Models for Environmental Mixtures." *Biometrics.* DOI:10.1111/biom.13569

Bie, R., Haneuse, S., Huey, N., Schildcrout, J. and **McGee, G.** (2021) "Fitting Marginal Models in Small Samples: A Simulation Study of Marginalized Multilevel Models and Generalized Estimating Equations." *Statistics in Medicine*. DOI:10.1002/sim.9126

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

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

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

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

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.00000000003039

Coull, B., Lee, S., **McGee, G.**, Manjourides, J., Mittleman, M., and Wellenius, G. (2020). "Corrections for Measurement Error Due to Delayed Onset of Illness for Case-Crossover Designs." *Biometrics*. DOI:10.1111/biom.13173

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 McGee, G., Weisskopf, M. G., Kioumourtzoglou, M. A., Coull, B. A., and Haneuse, S. (2020). "Informatively empty clusters with application to multigenerational studies". *Biostatistics*. DOI:10.1093/biostatistics/kxz005

- Presentations
 2023
 Invited Presentation, Joint Statistical Meeting (JSM), Toronto, ON, Canada, "Informative Presence Bias in Electronic Health Records: The Impact of Outcome-Dependent Observation Mechanisms."
 - 2023 Invited Presentation, Statistical Society of Canada (SSC) Annual Meeting, Ottawa, Canada, "Testing for Non-Additive Interaction in Flexible Bayesian Models for Multi-Pollutant Mixtures."
 - 2022 Oral Presentation, Annual Conference for the International Society for Environmental Epidemiology (ISEE), Athens, Greece, "Incorporating Biological Knowledge in Analyses of Environmental Mixtures and Health."
 - 2022 Invited, Joint Statistical Meeting (JSM), Washington, DC, "Incorporating Biological Knowledge in Analyses of Environmental Mixtures and Health."
 - 2022 Contributed Oral Presentation, Statistical Society of Canada (SSC) Annual Meeting (Virtual), "Flexible Marginal Models For Dependent Data."
 - 2021 Invited Seminar, International Conference on Computational and Methodological Statistics (CMStatistics 2021), London, UK. (Virtually). "Bayesian Multiple Index Models for Environmental Mixtures."
 - 2021 Contributed Oral Presentation, Joint Statistical Meetings (Virtual), "Bayesian Multiple Index Models for Environmental Mixtures."
 - 2021 Contributed Oral Presentation, Statistical Society of Canada Annual Meeting (Virtual), "Bayesian Multiple Index Models for Environmental Mixtures."
 - 2021 Contributed Oral Presentation, ISGlobal Exposome Data Challenge, Spain (Virtual). "Quantifying Exposome-Health Associations with Bayesian Multiple Index Models."
 - 2021 Invited Seminar, NIEHS PRIME Webinar, Virtual. "Bayesian Multiple Index Models for Environmental Mixtures."
 - 2020 Invited Seminar, International Conference on Computational and Methodological Statistics (CMStatistics 2020), London, UK. (Virtually). "Informative presence bias in electronic health records."
 - 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."