

Resume

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Academic appointments

Associate Professor Tenured 2012	Department of Environmental and Occupational Health	Drexel University United States of America	Since 2009
Associate Professor Tenured 2007	Department of Medicine	The University of Alberta Canada	2007-2009
Adjunct Professor	Institute for Risk Assessment Sciences	Utrecht University The Netherlands	2003-2009
	Department of Medicine	The University of Alberta Canada	2009-2011
	School of Public Health	The University of Alberta Canada	2008-2011
Assistant Professor tenure-track	Department of Public Health Sciences	The University of Alberta Canada	2003-2007
Researcher	Institute for Risk Assessment Sciences	Utrecht University The Netherlands	2001-2002

Education

Doctor of Philosophy*	Environmental & Occupational Health	Utrecht University & International Agency for Research on Cancer	1997 - 2001
Master of Science [†]	Occupational Hygiene	The University of British Columbia	1994 - 1996
Bachelor of Science	Microbiology	The University of British Columbia	1989 - 1993

* Dissertation:

<https://www.narcis.nl/publication/RecordID/oai%3Adspace.library.uu.nl%3A1874%2F265/genre/doctoralthesis/uquery/Burstyn/id/1/Language/EN>, <https://dspace.library.uu.nl/handle/1874/265>

[†] Dissertation doi: 10.14288/1.0087217;

<https://open.library.ubc.ca/soa/cIRcle/collections/ubtheses/831/items/1.0087217?o=0>

Awards

Canadian Journal of Statistics Award	2022
for paper on dose-response modelling: https://onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)1708-945X.award ; https://ssc.ca/en/awards/2022/li-xing-xuekui-zhang-igor-burstyn-and-paul-gustafson-canadian-journal-statistics-award	
Outstanding Contribution to Epidemiology, American College of Epidemiology	2019
https://www.acepidemiology.org/Outstanding_Contributions_to_Epidemiology_Awardees	
Golden Apple teaching award, Drexel School of Public Health (nominated)	2011, 2016
Population Health Investigator (Alberta Heritage Foundation for Medical Research)	2005 - 2009
<i>Renewed till 2011 but terminated prematurely because of loss of eligibility due to emigration to USA upon accepting position at Drexel University</i>	
New Investigator Award, <i>non-renewable</i> (Canadian Institutes of Health Research)	2003 - 2007
ISEE/ISEA Conference Travel Award	2002
Special training award, the International Agency for Research on Cancer	1997 - 2000
The National Sciences and Engineering Research Council Post-Graduate Fellowship	1994 - 1996
The National Sciences and Engineering Research Council Undergraduate Studentship	1992 and 1993
Alexander Durdle Scholarship	1991
Alexander Rutherford Scholarship	1989

Research Contributions*

The manuscripts based on which I wish to be judged by my peers

1. Sallmen M, **Burstyn I**, Uuksulainen S, Koskinen A, Hublin C, Sainio M: Parkinson's disease and occupational exposure to organic solvents in Finland: a nationwide case-control study. *Scandinavia Journal of Work, Environment and Health* 50(1):39–48 (2024) (<https://doi.org/10.5271/sjweh.4125>)
2. **Burstyn I**, Jones R: The chronicles of statistical methods employed in occupational hygiene. (Commentary commissioned to mark the 70th anniversary of the journal) *Annals of Work, Exposure and Health* 67(8):920-5 (2023) (<https://doi.org/10.1093/annweh/wxad042>).
3. **Burstyn I**, Goldstein N, Gustafson P.: Towards reduction in bias in epidemic curves due to outcome misclassification through Bayesian analysis of time-series of laboratory test results: Case study of COVID-19 in Alberta, Canada and Philadelphia, USA. *BMC Medical Research Methodology* 20:146 (2020) (<https://doi.org/10.1186/s12874-020-01037-4>; <https://rdu.be/b4GOM>); *OSF Preprints*. April 9, 2020 ([doi:10.31219/osf.io/qpgbk](https://doi.org/10.31219/osf.io/qpgbk)) & *medRxiv*, April 11, 2020 (<https://www.medrxiv.org/content/10.1101/2020.04.08.20057661v1>).[‡]
4. Singer AB, Fallin MD, **Burstyn I**: Bayesian correction for exposure misclassification and evolution of evidence in two studies of the association between maternal occupational exposure to asthmagens and risk of autism spectrum disorder. *Current Environmental Health Reports* 5(3):338-50 (2018) (<http://dx.doi.org/10.1007/s40572-018-0205-0>).
5. **Burstyn I**, Gustafson P, Pintos J, Lavoué J, Siemiatycki J: Correction of odds ratios in case-control studies for exposure misclassification with partial knowledge of the degree of agreement among experts who assessed exposures. *Occupational and Environmental Medicine* 75(2):155-9 (2018) (<http://dx.doi.org/10.1136/oemed-2017-104609>).
6. Goldstein ND, Welles SL, **Burstyn I**: To be or not to be: Bayesian correction for misclassification of self-reported sexual behaviors among men who have sex with men. *Epidemiology* 26(5):637-44 (2015) (<http://dx.doi.org/10.1097/EDE.0000000000000328>) (with original poem).
7. **Burstyn I**: Peering through the mist: What does the chemistry of contaminants in electronic cigarettes tell us about health risks? *BMC Public Health* 14:18 (2014) (<http://www.biomedcentral.com/1471-2458/14/18>). *Impact*: By 2022: the 99th percentile (ranked 43rd) of the 304,803 tracked articles of a similar age in all journals and the 99th percentile (ranked 1st) of the 298 tracked articles of a similar age in *BMC Public Health*; <https://bmcpublihealth.biomedcentral.com/articles/10.1186/1471-2458-14-18/metrics>; *erratum* in <http://antithrllies.com/2015/06/11/post-publication-peer-review-correction-to-burstyn-2014-and-related-matters/>; (with special thanks to Carl. V. Phillips, <https://twitter.com/carlvphillips>).

* in reverse chronological order, names of trainees under my supervision are underlined

[‡] cited in Fox, M.P., MacLehose, R.F., Lash, T.L. (2021). Best Practices for Quantitative Bias Analysis. In: Applying Quantitative Bias Analysis to Epidemiologic Data. Statistics for Biology and Health. Springer, Cham. https://doi.org/10.1007/978-3-030-82673-4_13.

8. **Burstyn I**, Lavoué J, van Tongeren M: Aggregation of exposure level and probability into a single metric in job-exposure matrices creates bias. *The Annals of Occupational Hygiene* 56(9):1038-50 (2012) (<http://dx.doi.org/10.1093/annhyg/mes031>)
9. Gustafson P, **Burstyn I**: Bayesian inference of gene-environment interaction from incomplete data: What happens when information on environment is disjoint from data on gene and disease? *Statistics in Medicine* 30(8):877-89 (2011) (doi: 10.1002/sim.4176).
10. **Burstyn I**, Wang X, Yasui Y, Sithole F, Zwaigenbaum L: Autism spectrum disorders and fetal hypoxia in a population-based cohort: Accounting for missing exposures via Estimation-Maximization algorithm. *BMC Medical Research Methodology* 11:2 (2011) (<http://www.biomedcentral.com/1471-2288/11/2>).
11. Kim HM, Richardson D, Loomis D, van Tongeren M, **Burstyn I**: Bias in the estimation of exposure effects with individual- or group-based exposure assessment. *Journal of Exposure Analysis & Environmental Epidemiology* 21: 212-21 (2011) (<http://dx.doi.org/10.1038/jes.2009.74>).
12. **Burstyn I**: Measurement error and model specification in determining how duration of tasks affects level of occupational exposure. *The Annals of Occupational Hygiene* 53(3):265-70 (2009) (<http://dx.doi.org/10.1093/annhyg/mep003>).
13. **Burstyn I** and Teschke K: Studying the determinants of exposure: A review of methods. *American Industrial Hygiene Association Journal* 60:57-72 (1999): **commonly used in teaching industrial hygiene at the university level.**

All pre-prints and peer-reviewed articles (216 in total)

- Reiss B, Roa IJ, Bacharach R, **Burstyn I**, Oren, E: Low-cost assessment of a stove improvement program in Peru. *Annals of Work, Exposure and Health OSF Preprints* (2021) (osf.io/anfeg).
- Ruzycki S, Adisesh A, **Burstyn I**, Durand-Moreau Q, Labreche F, Zadunayski T, Cherry N: The availability, use and impact of workplace mental health supports during the COVID-19 pandemic in a Canadian prospective cohort of healthcare workers. *Archives of Environmental & Occupational Health* (submitted Oct 2023); medRxiv 2023.12.12.23299862 (doi: <https://doi.org/10.1101/2023.12.12.23299862>)
- Cherry N, Adisesh A, **Burstyn I**, Charlton C, Chen Y, Durand-Moreau Q, Labrèche F, Ruzycki S, Turnbull LA, Zadunayski T, Yasui Y: Determinants of SARS-CoV-2 IgG response and decay in Canadian healthcare workers: a prospective cohort study. *Vaccine* (submitted Sept 2023); medRxiv 2023.09.12.23295445 (doi: <https://doi.org/10.1101/2023.09.12.23295445>).
- Galarneau J-M, Labrèche F, Durand-Moreau Q, Ruzycki S, Adisesh A, **Burstyn I**, Zadunayski T, Cherry N: Excess risk of Covid-19 infection and mental distress in healthcare workers during successive pandemic waves. Analysis of matched cohorts of healthcare workers and community referents in Alberta, Canada. *Canadian Journal of Public Health* (in press, December 2023); medRxiv 2023.09.12.23295439 (doi: <https://doi.org/10.1101/2023.09.12.23295439>).
- Sallmen M, **Burstyn I**, Uuksulainen S, Koskinen A, Hublin C, Sainio M: Parkinson's disease and occupational exposure to organic solvents in Finland: a nationwide case-control study. *Scandinavia Journal of Work, Environment and Health* 50(1):39–48 (2024) (<https://doi.org/10.5271/sjweh.4125>)
- Burstyn I**. Does adjustment for non-differential misclassification of dichotomous exposure induce positive bias if there is no true association? *Global Epidemiology* 7:100132 (2023) (<https://doi.org/10.1016/j.gloepi.2023.100132>)
- Cherry NM, Adisesh A, **Burstyn I**, Durand-Moreau Q, Galarneau J-M, Labrèche F, Ruzycki S, Zadunayski T: Recruitment and attrition in a prospective cohort of Canadian health care workers established to determine the impact of working through the Covid-19 pandemic. *BMJ Open* 13(11):e074716 (2023) (doi: 10.1136/bmjopen-2023-074716); medRxiv 2023.04.14.23288575; doi: <https://doi.org/10.1101/2023.04.14.23288575> (April 14, 2023).
- Burstyn I**, Jones R: The chronicles of statistical methods employed in occupational hygiene. (Commentary commissioned to mark the 70th anniversary of the journal) *Annals of Work, Exposure and Health* 67(8):920-5 (2023) (<https://doi.org/10.1093/annweh/wxad042>).
- Huyền T, Nguyễn T, Vũ N, Robinson L, Nguyễn E, Nguyễn N, Carroll-Scott A, **Burstyn I**: A participatory approach to designing and implementing an occupational health intervention for the nail salon community in the Greater Philadelphia region. *Annals of Work, Exposure and Health* 67(8): 938-51 (2023) (<https://doi.org/10.1093/annweh/wxad044>) [*Awarded the distinction as “editor’s choice” article.*]
- Burstyn I**, Sarazin P, Luta G, Friesen MC, Kincl L, Lavoué J: Prerequisite for imputing non-detects in OSHA’s IMIS databank: prediction of sample’s volume. *Annals of Work, Exposure and Health* 67(6): 744-57 (2023) (<https://doi.org/10.1093/annweh/wxad017>)
- Burstyn I**, Huynh T: Changes in anxiety and depression over the first year of COVID-19 pandemic in Philadelphia, PA: work characteristics and mental health supports. *Journal of Occupational & Environmental Medicine* 65(8): e545-57 (2023) (doi: 10.1097/JOM.0000000000002883).
- Wang X, Lee NL, **Burstyn I**: Smokers’ utilization of quitting methods and vaping during pregnancy: an empirical cluster analysis of 2016-2018 Pregnancy Risk Assessment Monitoring System (PRAMS) data in seven US States. *BMC Pregnancy and Childbirth* 23(1):306 (2023) (doi: 10.1186/s12884-023-05608-3).
- Cherry NM, Mhonde T, Adisesh A, **Burstyn I**, Durand-Moreau Q, Labrèche F, Ruzycki S: The evolution of workplace risk for Covid-19 in Canadian health care workers and its relation to vaccination: a nested case-referent study. *American Journal of Industrial Medicine* 66(4):297-306-10 (2023) (<https://doi.org/10.1002/ajim.23466>).

- Wan W, Ge CB, Russ D, Friesen M, **Burstyn I**, Baker CJO, Adishes A, Lan Q, Rothman N, Huss A, van Tongeren M, Vermeulen R, Peters S: Automated coding of job descriptions from a population-based occupational study: overview of existing tools, their application and comparison. *Annals of Work, Exposure and Health* 67(5): 663-72 (2023) (<https://doi.org/10.1093/annweh/wxad002>).
- Huynh TB, McClure LA, Howard VJ, Safford MM, Judd SE, **Burstyn I**: Duration of employment within occupations and incident stroke in a US general population cohort 45 years of age or older (REGARDS Study). *American Journal of Industrial Medicine* 66(2):142-54 (2023) (<http://doi.org/10.1002/ajim.23446>)
- Burstyn I**, Donovan GH, Michael YL, Jovan S: Association of polycyclic aromatic hydrocarbons in moss with blood biomarker among nearby residents in Portland, Oregon. *PLoS One* 17(12): e0279207. <https://doi.org/10.1371/journal.pone.0279207> (2022); *medRxiv* 2021.07.15.21260592; doi: <https://doi.org/10.1101/2021.07.15.21260592> (July 15, 2021)
- Burstyn I**, Holt K: Pride and adversity among nurses and physicians during the pandemic in two US healthcare systems: a mixed methods analysis. *BMC Nursing* 21: 304 (2022) (<https://doi.org/10.1186/s12912-022-01075-x>); *medRxiv* (March 19, 2022) <https://medrxiv.org/cgi/content/short/2022.03.16.22272485v1>
- Deglin SE, **Burstyn I**, Chen CL, Miller DJ, Gribble MO, Hamade AK, Chang ET, Avanasani R, Boon D, Reed J: Considerations toward the better integration of epidemiology into quantitative risk assessment. *Global Epidemiology* 4: 100084 (2022) (<https://doi.org/10.1016/j.gloepi.2022.100084>).
- Wang X, Lee NL, **Burstyn I**: Exposure-response analysis of the association of maternal smoking and use of electronic cigarettes (vaping) in relation to preterm birth and small-for-gestational-age in a national US sample, 2016-2018. *Global Epidemiology* 4: 100079 (2022) (<https://doi.org/10.1016/j.gloepi.2022.100079>); *medRxiv* (March 3, 2021) (<https://www.medrxiv.org/content/10.1101/2021.03.01.21252530v1>) (<https://doi.org/10.1101/2021.03.01.21252530>).
- Goldstein N, Kahal D, Testa K, Gracely EJ, **Burstyn I**: Data quality in electronic health record research: an approach for validation and quantitative bias analysis for imperfectly ascertained health outcomes via diagnostic codes. *Harvard Data Science Review* 4(2) (2022) (<https://doi.org/10.1162/99608f92.cbe67e91>).
- Goldstein N, **Burstyn I**: Further improving analysis of date-based COVID-19 surveillance data. *American Journal of Public Health* 112(5):e1-e2 (2022) (doi: 10.2105/AJPH.2022.306759)
- Burstyn I**, Holt K: A cross-sectional survey of the workplace factors contributing to symptoms of anxiety and depression among nurses and physicians during the first wave of COVID-19 pandemic in two US healthcare systems. *Annals of Work, Exposure and Health* 66(3):312-33 (2022) (doi: [10.1093/annweh/wxab085](https://doi.org/10.1093/annweh/wxab085)); *medRxiv* (January 26, 2021) (<https://www.medrxiv.org/content/10.1101/2021.01.25.21250315v1>) [Awarded the distinction as “editor’s choice” article].
- Lee DG, Schuetz JM, Lai AS, **Burstyn I**, Brooks-Wilson A, Aronson KJ, Spinelli JJ: Interactions between exposure to polycyclic aromatic hydrocarbons and xenobiotic metabolism genes, and risk of breast cancer. *Breast Cancer* 29(1):38-49 (2022) (doi: 10.1007/s12282-021-01279-0).
- Burstyn I**, Huynh T: Experiences of coping with the first wave of COVID-19 epidemic in Philadelphia, PA: Mixed methods analysis of a cross-sectional survey of worries and symptoms of mood disorders. *PLoS One* 16(10): e0258213 (2021) (<https://doi.org/10.1371/journal.pone.0258213>); *medRxiv* (April 6, 2021) (<https://doi.org/10.1101/2021.03.31.21254725>).
- Goldstein N, Kahal D, Testa K, **Burstyn I**: Inverse probability weighting for selection bias in a Delaware community health center electronic medical record study of community deprivation and hepatitis C prevalence. *Annals of Epidemiology* 60: 1-7 (2021) (doi: 10.1016/j.annepidem.2021.04.011).
- Goldstein ND, Quick H, **Burstyn I**: The impact of adjusting for misclassification in case ascertainment and uncertainty about date of infection in COVID-19 time series surveillance data on the estimated effective reproduction number. *Epidemiology* 32(6): 800-6 (2021) (doi: 10.1097/EDE.0000000000001402); *Zenodo* (Dec 8, 2020) (<https://doi.org/10.5281/zenodo.4311848>).
- Xing L, Zhang X, **Burstyn I**, Gustafson P: On logistic Box–Cox regression for flexibly estimating the shape and strength of exposure-disease relationships. *Canadian Journal of Statistics* 49(3): 808-825 (2021) (<https://doi.org/10.1002/cjs.11587>); associated software: <https://CRAN.R-project.org/package=lboxcox> (January 2022). [Winner of the 2022 Canadian Journal of Statistics Award]
- Burstyn I**, Huynh T: Symptoms of anxiety and depression in relation to work patterns during the first wave of the COVID-19 epidemic in Philadelphia PA: a cross-sectional survey. *Journal of Occupational and Environmental Medicine* 63(5): e283-93 (2021) (doi: [10.1097/JOM.0000000000002179](https://doi.org/10.1097/JOM.0000000000002179)); *medRxiv* (January 22, 2021) (<https://www.medrxiv.org/content/10.1101/2021.01.21.21250117v1>) (press coverage: <https://www.inquirer.com/health/mental-health-covid-coronavirus-drexel-philadelphia-20210205.html>).
- Goldstein ND, Wheeler DC, Gustafson P, **Burstyn I**: A Bayesian approach to improving spatial estimates after accounting for misclassification bias in surveillance data for COVID-19 in Philadelphia, PA. *Spatial and Spatiotemporal Epidemiology* 36: 100401 (2021) (<https://www.sciencedirect.com/science/article/pii/S1877584521000010>); *Zenodo* (July 8, 2020) (<https://zenodo.org/record/3936037>).
- Lavoué J, **Burstyn I**: Evidence of absence: Bayesian way to reveal true zeros among occupational exposures. *Annals of Work Exposures and Health* 65(1): 84-95 (2021) (doi: 10.1093/annweh/wxaa086).

- Burstyn I:** Occupational epidemiologist's quest to tame measurement error in exposure. *Global Epidemiology* 2: 10038 (2020) ([https://authors.elsevier.com/sd/article/S2590-1133\(20\)30022-5](https://authors.elsevier.com/sd/article/S2590-1133(20)30022-5); <https://doi.org/10.1016/j.gloepi.2020.100038>); *OSF Preprints* (2019) (osf.io/r9xy3).
- Burstyn I, Goldstein N, Gustafson P.:** It can be dangerous to take epidemic curves of COVID-19 at face value. (commentary) *Canadian Journal of Public Health* 111(3): 397-400 (2020) (<https://doi.org/10.17269/s41997-020-00367-6>)
- Burstyn I, Goldstein N, Gustafson P.:** Towards reduction in bias in epidemic curves due to outcome misclassification through Bayesian analysis of time-series of laboratory test results: Case study of COVID-19 in Alberta, Canada and Philadelphia, USA. *BMC Medical Research Methodology* 20:146 (2020) (<https://doi.org/10.1186/s12874-020-01037-4>; <https://rdcu.be/b4GOM>); *OSF Preprints April 9, 2020* (doi:10.31219/osf.io/qpgbk) & *medRxiv April 11, 2020* (<https://www.medrxiv.org/content/10.1101/2020.04.08.20057661v1>).
- Goldstein, ND, **Burstyn I.:** On the importance of early testing even when imperfect in a pandemic such as COVID-19. *Global Epidemiology* 2:100031 (2020) (<https://doi.org/10.1016/j.gloepi.2020.100031>); *OSF Preprints (March 18, 2020)* (osf.io/9pz4d)
- Wang X, Lee NL, **Burstyn I:** Smoking and use of electronic cigarettes (vaping) in relation to preterm birth and small-for-gestational-age in a 2016 U.S. national sample. *Preventive Medicine* 134: 106041 (2020) (<https://doi.org/10.1016/j.ypmed.2020.106041>).
- Wang X, Lee NL, **Burstyn I:** Probabilistic sensitivity analysis: Gestational hypertension and differentially misclassified maternal smoking during pregnancy. *Annals of Epidemiology* 42:1-3.e1 (2020) (<https://doi.org/10.1016/j.annepidem.2020.01.001>)
- Luo H, Bouchard-Côté A, **Burstyn I**, Cohen Freue G, Gustafson P: A new perspective on the benefits of the gene-environment independence in case-control studies. *Canadian Journal of Statistics* 47:473-86 (2019) (doi: 10.1002/cjs.11509).
- Burstyn I**, LaCroix AZ, Litvan I, Wallace RB, Checkoway H: Occupation and Parkinson disease in the Women's Health Initiative Observational Study. *American Journal of Industrial Medicine* 62(9):766-76 (2019) (doi: 10.1002/ajim.23022) [*bioRxiv* (2019) 535732 (doi: <https://doi.org/10.1101/535732>)].
- Burstyn I**, Barone-Adesi F, de Vocht F, Gustafson P: What to do when accumulated exposure affects health but only its duration was measured? A case of linear regression. *International Journal Environmental Research and Public Health* 16(11): 1896 (2019) (<https://doi.org/10.3390/ijerph16111896>) (*Preprints* 2019, 2019040306 (doi: 10.20944/preprints201904.0306.v1)).
- Phillips CV, **Burstyn I**, Carter BL: The limited value of journal peer review in public health: a case series of tobacco harm reduction articles. *OSF Preprints*. May 3. osf.io/q7jdv (doi: 10.31219/osf.io/q7jdv).
- Michelle C Kondo MC, De Roos AJ, White L, Heilman W, Mockrin MH, Gross-Davis CA, **Burstyn I:** Meta-Analysis of heterogeneity in the effects of wildfire smoke exposure on respiratory health in North America. *International Journal Environmental Research and Public Health* 16(6): 960 (2019) (<https://doi.org/10.3390/ijerph16060960>).
- Hoover DR, Shi Q, **Burstyn I**, Anastos K: Repeated measures regression in laboratory, clinical and environmental research: Common misconceptions in the matter of different within- and between-subject slopes. *International Journal Environmental Research and Public Health* 16(3): 504 (2019) (<https://doi.org/10.3390/ijerph16030504>).
- Xing L, Zhang X, **Burstyn I**, Gustafson P: Logistic box-cox regression to assess the shape and median effect under uncertainty about model specification. *ArXiv > Statistics > Methodology* (2019): 1901.11362 (<https://arxiv.org/abs/1901.11362>).
- Wang X, Lee NL, **Burstyn I:** Maternal smoking and gestational hypertension: heterogeneous effect by timing of the exposure. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health* 15:123-9 (2019) (<https://doi.org/10.1016/j.preghy.2018.12.011>).
- Lee DG, **Burstyn I**, Lai AS, Grundy A, Friesen MC, Aronson KJ, Spinelli JJ: Women's occupational exposure to polycyclic aromatic hydrocarbons and risk of breast cancer. *Occupational & Environmental Medicine* 76(1): 22-9 (2019) (<http://dx.doi.org/10.1136/oemed-2018-105261>).
- Schouten J, Beach J, **Burstyn I**, Senthilselvan A, Cherry NM: Is farm milk a risk factor for sarcoidosis? The role of farm residence, un-piped water and untreated milk in sarcoidosis: a case-referent study in Alberta, Canada. *International Journal Environmental Research and Public Health* 15: 2755 (2018) (doi:10.3390/ijerph15122755).
- Singer AB, Fallin MD, **Burstyn I:** Bayesian correction for exposure misclassification and evolution of evidence in two studies of the association between maternal occupational exposure to asthmagens and risk of autism spectrum disorder. *Current Environmental Health Reports* 5(3):338-50 (2018) (doi: 10.1007/s40572-018-0205-0).
- McNamara K, Peters C, **Burstyn I:** Forecasting dose from unobserved times: case study of transient workers at a nuclear power plant. *Annals of Work Exposures and Health* 62(7):808-17 (2018) (doi: 10.1093/annweh/wxy057).
- Cherry NM, Beach J, Senthilselvan A, **Burstyn I:** Pesticide use and asthma in Alberta grain farmers. *The International Journal of Environmental Research and Public Health* 15(3):526 (2018) (doi: 10.3390/ijerph15030526).
- Sarazin P, **Burstyn I**, Kincl L, Friesen MC, Jérôme Lavoué J: Characterization of the selective recording of workplace exposure measurements into OSHA's IMIS databank. *Annals of Work Exposures and Health* 62(3):269-80 (2018) (doi: 10.1093/annweh/wxy003).

- Omokhodion FO, Roberts OA, Onadeko MO, Beach JR, Cherry NM, **Burstyn I**: Social, obstetric and environmental determinants of low Apgar score among infants born in four selected hospitals in Ibadan, Nigeria. *Journal of Obstetrics and Gynaecology* 38(4):454–60 (2018) (doi: 10.1080/01443615.2017.1367764).
- Burstyn I**, Gustafson P, Pintos J, Lavoué J, Siemiatycki J: Correction of odds ratios in case-control studies for exposure misclassification with partial knowledge of the degree of agreement among experts who assessed exposures. *Occupational and Environmental Medicine* 75(2):155-9 (2018) (doi: 10.1136/oemed-2017-104609).
- Jones RM, **Burstyn I**: A conceptual model for take-home workplace exposures. *Journal of Occupational & Environmental Hygiene* 15(1):D8-D11 (2018) (doi: 10.1080/15459624.2017.1392531).
- Jones RM, **Burstyn I**: Bayesian analysis of occupational exposure data with conjugate priors. *Annals of Work Exposures and Health* 61(5):504-14 (2017) (doi: 10.1093/annweh/wxx032) [*Awarded the distinction as “editor’s choice” article.*].
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Other scholarly contributions

- Burstyn I**: *Social Epidemiology: Oy vey...* (2017) <http://www.funpolice.eu/dec%2017.htm>; now: <https://web.archive.org/web/20201230195618/https://www.funpolice.eu/dec%2017.htm>
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- de Vocht F, **Burstyn I**: *Undeclared conflict of interest and scientific problems in studies on 'dirty electricity'*. (In September 2013, this letter, unpublished because it was too embracing to the journal, forced *Electromagnetic Biology and Medicine* to alter declaration of COI by authors contributing to the journal who broke the COI rules; blog detailing the story is <http://oehscience.wordpress.com/2013/12/12/dirty-electricity-is-not-getting-any-cleaner/>).

Invited presentations (33 in total)

- Curiouser & Curiouser: The strange and wonderful world of exposure measurement error in occupational epidemiology. *Finnish Institute of Occupational Health*, October 28, 2021 (webinar)
- Some methods for tidier answers to messy real-world questions. *GalaxoSmithKline*, July 2019; Collegeville, PA.
- Cleaner methods for messy problems of observational epidemiology: A Bayesian contribution. *GalaxoSmithKline*, October 24, 2017; Collegeville, PA.
- Relative safety of e-cigarettes. Briefing of the US Congress staff and reporters organized by the *American Enterprise Institute*. March 18, 2015, Washington, DC, USA
- E-cigs & toxicology: Nothing new under the Sun. Food and Drugs Administration Public Workshop: *Electronic Cigarettes and the Public Health*. December 11, 2014, Silver Spring, MD, USA
- On the future of epidemiologic methods in context of risk assessment. *Panel discussion on the integration of workshop recommendations to move risk assessment forward*. Society for Risk Analysis annual meeting, December 11, 2013 Baltimore, MD, USA
- Getting more out of what we know about imperfection of exposure assessment. Université de Montréal, April 17, 2013, Montreal, Quebec, Canada
- The tales of two aggregations: Choices in exposure assessment impact epidemiologic result. Division of Biostatistics & Epidemiology, Dept of Medicine, Medical University of South Carolina, April 8, 2013, Columbia, South Carolina, USA.
- Optimistic user's perspective on Bayesian adjustments for measurement errors and misclassification in exposure. Symposium: Improving Reviews, Methods, and Transparency in Environmental Epidemiology to Inform Public Health Decision-Making. *International Society for Environmental Epidemiology*, University of South Carolina, August 26-30th 2012, Columbia, South Carolina, USA
- Does it matter that maternal smoking not reported correctly? Case study neonatal morbidity. The College on Problems of Drug Dependence, June 9-14, 2012, The La Quinta Resort & Club, Palm Springs, CA; the symposium titled "Do we under-treat the most prevalent form of maternal substance abuse?"
- Some challenges of studying role of environmental pollutants in autism: Case study of difficulties of measuring maternal smoking in pregnancy. Educational symposium on *Methodologic challenges in risk factor epidemiology: advancing the state of research*. The International Meeting for Autism Research (IMFAR), May 17-19, 2012, Toronto, ON, Canada
- Road to bias paved by sensible intuition: How we sometimes assess exposures in epidemiology. Dept. of Biostatistics, Bioinformatics and Biomathematics, Georgetown University, April 13, 2012, Washington, DC, USA
- Purpose-built occupational exposure databases are invaluable in risk assessment. DuPont Stine Haskel Research Facility, Newark, DE, April 4, 2012, USA
- In utero* exposure to perfluorinated acids, maternal hypothyroxinemia and fetal growth. Mount Sinai School of Medicine, December 14, 2011, New York, USA.
- Bayesian correction for exposure measurement error and misclassification in case-control studies. US National cancer Institute, January 21, 2011, Bethesda, MD, USA.
- Autism spectrum disorders and foetal hypoxia: Statistical challenges in analysis of a population-based cohort. Department of Statistics, The University of British Columbia, March 2, 2010, Vancouver, Canada
- Environmental exposures and pregnancy outcomes. Regional Laboratory Services Education Day, Alberta Health Services, February 27, 2010, Edmonton, Alberta, Canada.
- Asphalt fumes and the health of road construction workers. Drexel University, July 30, 2009, Philadelphia, PA, USA.
- Impact of maternal and in-utero exposures on child health: Cohort of pregnancies in Capital Health Region, Alberta. Workshop on Canadian Environment and Child Health and Development Research, February 9-10, 2009 Ottawa, Canada.
- Retrospective cohort of asphalt workers: Exposure reconstruction and lung cancer mortality trends. US National Cancer Institute, November 25, 2008, Bethesda, MD, USA.
- Environmental contaminants, fetal growth restriction, and early neonatal morbidity. Mount Sinai School of Medicine, May 30, 2008, New York, USA.

- A vignette from occupational epidemiology: Stitching evidence from tattered fabric. The workshop *Methodological Needs and Desires in Public and Population Health Research*, National Program in Complex Data Structures, April 25, 2008, The University of British Columbia, Vancouver, Canada (http://pims.math.ca/science/2008/08npcds/Burstyn_abs.pdf).
- Evaluation and control of exposure to asphalt fumes. University of Illinois at Chicago, February 2, 2008, Chicago, USA.
- Discussant in session on “Exposure assessment in occupational epidemiology: From using the best current methods to future methods.” SER-CSEB meeting, June 27-30, 2005, Toronto, Canada.
- Trends in exposure to solvents among commercial painters. Symposium of American Industrial Hygiene Association, Alberta Section, March 12, 2004, Leduc, Canada.
- Trends in exposure to solvents among commercial painters. Occupational and Environmental Hygiene Research Symposium: New Directions and Challenges, April 25, 2003, Vancouver, Canada.
- Exposure to polycyclic aromatic hydrocarbons and chronic obstructive lung disease mortality in a cohort of European asphalt workers. Centre for Chronic Disease Prevention and Control, Health Canada, April 8, 2003, Ottawa, Canada.
- Principles of exposure assessment: Examples from occupational epidemiology. Centre for Chronic Disease Prevention and Control, Health Canada, April 7, 2003, Ottawa, Canada.
- Occupational Health Research at the University of Alberta: What can you expect in the future? Symposium of American Industrial Hygiene Association, Alberta Section, March 14, 2003, Calgary, Canada.
- Exposure to polycyclic aromatic hydrocarbons and chronic obstructive lung disease mortality in a cohort of asphalt workers. School of Occupational and Environmental Hygiene, the University of British Columbia, February 28, 2003.
- Review of statistical modelling of exposures for an epidemiological study and exposure controls in asphalt paving industry. Conference on Exposure Assessment in Epidemiology and Practice (X2001), June 10-13, 2001, Göteborg, Sweden.
- Can self-monitoring and self-assessment assist in exposure reconstruction in an international multi-centric nested case-control study? National Institute for Working Life Workshop: Chemical Exposure Assessment and Exposure Data Handling in Small and Medium Size Enterprises, April 10-12, 2000, Brussels, Belgium.
- Reclaimed Materials and Recycling in the Asphalt Industry: Implications for Occupational Health. National Institute for Working Life Workshop: Does recycling lead to new problems in the working environment? March 20-22, 2000, Brussels, Belgium.

Peer-reviewed abstracts: conferences and symposia presentation as presenter (co-authored abstracts not listed)

- Burstyn I**, Phillips CV, Miller D, Hamade AK, Avanasani R, Boon D, Gribble M, Johnson M, Reed J, Rege S, Deglin SE: Improving the integration of epidemiological data into human health risk assessment: What risk assessors told us they need. Society for Epidemiologic Research, June 2023, Portland, OR, USA (poster)
- Burstyn I**, Lee NL, Schriver E, Pandey J, Croen LA, Fallin D, Hertz-Picciotto I, Newschaffer C: Maternal sub-clinical hypothyroidism and risk of autistic endophenotype in a risk-enriched pregnancy cohort. IMFAR2015 (talk)
- Barone-Adesi F & **Burstyn I**: Duration as a proxy for cumulative exposure: Should we trust positive result? The 23th EPICOH International Conference on Epidemiology in Occupational Health, June 18-21, 2013, Utrecht, The Netherlands. (talk)
- Burstyn I**, Devaraj S, Croen LA, Fallin MD, Hertz-Picciotto I, Newschaffer C: Thyroid hormones in pregnancies at elevated risk of autism spectrum disorders. The International Meeting for Autism Research (IMFAR), May 17-19, 2012, Toronto, ON, Canada (poster).
- Burstyn I**, Lavoué J, van Tongeren M: Aggregation of exposure level and probability into a single metric in job-exposure matrices creates bias. X2012 The Seventh International Conference on Innovations in Exposure Assessment. July 2-5, 2012, Edinburgh, Scotland (talk).
- Burstyn I**, de Vocht F, Kim H-M, Cherry NM: Bayesian correction for measurement error following group-based exposure assessment in a case-referent study. The 22th EPICOH International Conference on Epidemiology in Occupational Health, September 7-9, 2011, Oxford, UK (talk).
- Burstyn I**, Beach J, Cherry NM: The comfort in unsurprising results: Bayesian accounting for exposure misclassification and prior expectations in a study of work-related asthma. The Society for Epidemiologic Research (SER), June 23(eve)-26, 2010, Seattle, WA (USA) (poster).
- Burstyn I**, Sithole F, Zwaigenbaum L: Autism Spectrum Disorders, Maternal Characteristics and Obstetric Complications among Singletons Born in Alberta, Canada. The Society for Epidemiologic Research (SER), June 23(eve)-26, 2010, Seattle, WA (USA) (talk).
- Burstyn I**: Measurement error and model specification in determining how duration of tasks affects level of occupational exposure. X2009 The Sixth International Conference on Innovations in Exposure Assessment. Boston, USA, August 17-20, 2009 (poster).

- Liu J, Gustafson P, Cherry NM, **Burstyn I**: Bayesian learning about the extent of exposure misclassification (and odds ratio) in a general-population job-exposure matrix applied in a matched case-referent design. X2009 The Sixth International Conference on Innovations in Exposure Assessment. Boston, USA, August 17-20, 2009 (talk).
- Burstyn I**, Kapur N, Cherry NM: Substance use of pregnant women and early neonatal morbidity from the public health perspective. The Society for Epidemiologic Research (SER), June 23-26, 2009, Anaheim, California (USA). *American Journal of Epidemiology* 2009;169(Suppl):S19 (poster).
- Burstyn I**: Does adjustment for measurement error induce positive bias if there is no true association? The Society for Epidemiologic Research (SER), June 23-26, 2009, Anaheim, California (USA). *American Journal of Epidemiology* 2009;169(Suppl):S42 (talk)
- Liu J, Gustafson P, Cherry NM, **Burstyn I**: Exposure misclassification arising from the application of a general population job-exposure matrix in a matched case-control study: Bayesian adjustment when positive exposure-response association is suspected. The Society for Epidemiologic Research (SER), June 24-27, 2008, Chicago, Illinois, USA; *American Journal of Epidemiology* 2008;167(Suppl):S111 (poster).
- Kim HM, **Burstyn I**: Bayesian method for improving odds ratio estimate under group-based exposure assessment with additive measurement error. The Society for Epidemiologic Research (SER), June 24-27, 2008, Chicago, Illinois, USA; *American Journal of Epidemiology* 2008;167(Suppl):S111 (poster).
- Liu J, Gustafson P, Cherry NM, **Burstyn I**: Exposure misclassification arising from the application of a general population job-exposure matrix in a matched case-control study: Bayesian adjustment when positive exposure-response association is suspected. The 20th EPICOH International Conference on Epidemiology in Occupational Health, June 9-11, 2008, San Jose, Costa Rica (poster).
- Kim HM, **Burstyn I**: Bayesian method for improving odds ratio estimate under group-based exposure assessment with additive measurement error. The 20th EPICOH International Conference on Epidemiology in Occupational Health, June 9-11, 2008, San Jose, Costa Rica (talk).
- Burstyn I**, Kim HM, Cherry NM, Li S, Yasui Y: Impact of measurement errors in cumulative exposure on the evaluation of gene-environment interaction in a case-control study: Direct estimation and Mendelian randomization approaches. The 19th EPICOH International Conference on Epidemiology in Occupational Health, October 9-12, 2007, Banff, Canada (<http://oem.bmj.com/cgi/reprint/64/12/e14>) (talk)
- Kim H-M, Yasui Y, **Burstyn I**: Estimation of parameters in logistic regression models with multiplicative measurement error. 34th Annual Meeting of the Statistical Society of Canada, May 28-31, 2006, the University of Western Ontario (talk)
- Kim H-M, Yasui Y, **Burstyn I**: Estimation of parameters in logistic regression models with multiplicative measurement error. the Second North American Congress of Epidemiology, June 21-24, 2006, Seattle, Washington, USA. *American Journal of Epidemiology* 2006;163(Suppl 11):S154 (talk)
- Burstyn I**, Kim H-M, Kromhout H, Cherry N, Yasui Y: Is there a correlation between variability and level of exposure that biases risk estimates in occupational epidemiology? SER-CSEB meeting, June 27-30, 2005, Toronto, Canada. *American Journal of Epidemiology* 2005;161(Suppl):S87 (poster)
- Kim H-M, Yasui Y, Cherry N, **Burstyn I**: Attenuation in risk estimates in logistic and Cox proportional-hazards models due to group-based exposure assessment strategy. SER-CSEB meeting, June 27-30, 2005, Toronto, Canada. *American Journal of Epidemiology* 2005;161(Suppl):S88 (oral spotlight presentation)
- Burstyn I**, Kim H-M, Kromhout H, Cherry N, Yasui Y: Is there a correlation between variability and level of exposure that biases risk estimates in occupational epidemiology? CARWH, 3rd National Symposium, May 16-17, 2005, Vancouver, Canada (talk)
- Burstyn I**, Kromhout H, Svane O, Langård S, Ahrens W, Kauppinen T, Stücker I, Shaham J, Heederik D, Boffetta P, and the asphalt study group: Fatal ischemic heart disease and exposure to polycyclic aromatic hydrocarbons among asphalt pavers. The 17th International Symposium on Epidemiology in Occupational Health, EPICOH 2004, October 13-16, 2004, Melbourne, Australia. *Occupational and Environmental Medicine* 2004;61:e28: <http://oem.bmjournals.com/cgi/content/full/61/11/e28> (talk)
- Burstyn I**, Talaska G, Kromhout H: Is dermal exposure relevant and its assessment feasible in case-referent study of lung cancer risk among asphalt workers? Conference on Exposure Assessment in a Changing Environment (X2004). June 16-18, 2004, Utrecht, The Netherlands (*Het Tijdschrift voor Toegepaste Arbowetenschap* 2004, suppl.2: p 84). (talk)
- Desranleau J, Cherry NM, Beach J, Senthilselvan A, **Burstyn I**: A database of potential exposures and their determinants for an epidemiological study of health risk due to pesticide use among grain farmers. Conference on Exposure Assessment in a Changing Environment (X2004). June 16-18, 2004, Utrecht, The Netherlands (*Het Tijdschrift voor Toegepaste Arbowetenschap* 2004, suppl.2: p 72). (poster)
- Burstyn I**, Kromhout H: Is there a correlation between variability and level of exposure that should be taken into account in occupational epidemiology? Conference on Exposure Assessment in a Changing Environment (X2004). June 16-18, 2004, Utrecht, The Netherlands (*Het Tijdschrift voor Toegepaste Arbowetenschap* 2004, suppl.2: p 57). (talk)
- Burstyn I**, Boffetta P, Järnholm B, Partanen T, Svane O, Langård S, Kauppinen T, Stücker I, Shaham J, Heederik D, Ahrens W, Bergdahl I, Cené S, Hooiveld M, Randem BG, Johansen C, Ferro G, Kromhout H: Risk of fatal

industrial accidents and death from other external causes among asphalt workers. CARWH, 2nd National Symposium, October 25-26, 2003, Montreal, Canada. (poster)

- Burstyn I**, Boffetta P, Heederik D, Kromhout H, Partanen T, Svane O, Kauppinen T, Stücker I, on behalf of the Study Group: Mortality from obstructive lung diseases and exposure to polycyclic aromatic hydrocarbons among asphalt workers. The 16th EPICOH Congress on Epidemiology in Occupational Health, September 11-13, 2002, Barcelona, Spain, *La Medicina del Lavoro* 93(5): 480 (2002). (talk)
- Burstyn I**, Boffetta P, Kromhout H, Partanen T, Svane O, Kauppinen T, Stücker I, Frentzel-Beyme R, Langård S, Järholm B, Shaham J, Heikkilä P, Heederik D: Mortality from obstructive lung diseases among asphalt workers. The 12th Conference of the International Society of Exposure Analysis (ISEA) and the 14th Conference of the International Society for Environmental Epidemiology (ISEE), August 11-15, 2002, Vancouver, Canada, *Epidemiology* 13(4):945 (2002). (poster)
- Burstyn I**, Boffetta P, Kauppinen T, Svane O, Partanen T, Stücker I, Frentzel-Beyme R, Heederik D, Langård S, Järholm B, Shaham J, Heikkilä P, Kromhout H: Performance of different exposure assessment approaches in a study of bitumen fume exposure and lung cancer mortality. The 12th Conference of the International Society of Exposure Analysis (ISEA) and the 14th Conference of the International Society for Environmental Epidemiology (ISEE), August 11-15, 2002, Vancouver, Canada, *Epidemiology* 13(4): 810 (2002). (poster)
- Burstyn I**, Kromhout H, van Duivenboden C, Spee T: A database of exposure to solvents among commercial painters in the Netherlands, aimed to support retrospective exposure assessment. The 5th International Occupational Hygiene Association's International Scientific Conference, June 10-14, 2002, Bergen, Norway. (talk) Extended abstract published in *Het Tijdschrift voor toegepaste Arbowetenschap* (2003-02) supplement 2.
- Burstyn I**, Kromhout H, Ritchie P, Cherrie JW: Objectives, requirements and overall structure of an industry-wide occupational exposure database. 11th Symposium of Dutch Occupational Hygiene Society, March 29, 2002, Rotterdam, the Netherlands. (talk)
- Burstyn I**, Ferrari P, Wegh H, Heederik D, Kromhout H: Characterizing worker exposure to bitumen during hot mix paving and asphalt mixing operations. 11th Symposium of Dutch Occupational Hygiene Society, March 28, 2002, Rotterdam, the Netherlands. (talk)
- Burstyn I**, Boffetta P, Kauppinen T, Heikkilä P, Svane O, Partanen P, Stücker I, Frentzel-Beyme R, Arhens W, Merzenich H, Heederik D, Hooiveld M, Langård S, Randem B, Järholm B, Bergdahl I, Shaham J, Ribak J, Kromhout H: Estimating exposures in asphalt industry for an international epidemiological cohort study of cancer risk. Conference on Exposure Assessment in Epidemiology and Practice (X2001). June 10-13, 2001, Göteborg, Sweden. (poster)
- Burstyn I**, Boffetta P, Burr G, Cenni A, Knecht U, Sciarra G, Kromhout H: Validity of empirical models of exposure in asphalt paving. Conference on Exposure Assessment in Epidemiology and Practice (X2001). June 10-13, 2001, Göteborg, Sweden. (talk)
- Burstyn I**, Boffetta P, Burr G, Cenni A, Knecht U, Sciarra G, Kromhout H: Validity of empirical models of exposure in asphalt paving. Dutch Occupational Hygiene Society Conference 2001, March 31, 2001, Rotterdam, the Netherlands. (talk)
- Burstyn I** and Kromhout H: Are all the members of a road paving crew uniformly exposed to bitumen fume, organic vapour and benzo(a)pyrene? The 4th International Scientific Conference of the International Occupational Hygiene Association. July 2000, Cairns, Australia. (talk)
- Burstyn I**, Kromhout H, Cruise P, Boffetta P, et al.: Designing an international industrial hygiene database for a multicentric epidemiological study. International Symposium on Occupational Databases and Their Application for the Next Millennium. November 1999, London, UK. (talk)
- Burstyn I**, Kromhout H, Cruise P, Boffetta P: Industrial hygiene database of exposures among workers in the European asphalt industry. 1999 American Industrial Hygiene Association Conference and Exposition, Abstract 447; Toronto, Canada. (poster)
- Burstyn I**, Kromhout H, Boffetta P, et al.: Use of existing exposure data to assess the intensity of exposure to coal tar and bitumen among European asphalt workers. The British Occupational Hygiene Society, Occupational Hygiene '99 (Conference), Abstract, p. 29; 13-15 April 1999, London, UK. (talk)
- Burstyn I**, Teschke K, Bartlett K, Kennedy S: Predictive models of wheat antigen and α -amylase exposure levels in bakeries. 1997 American Thoracic Society Conference, Abstract, p.A136; San Francisco, USA. (poster)
- Burstyn I**, Teschke K, Bartlett K, Kennedy S: Exposure levels and determinants of flour dust exposure in bakeries. 1997 American Industrial Hygiene Association Conference and Exposition, Abstract 270, p 62. Dallas, Texas, USA. (talk)

Books, book chapters and reports (14 in total)

- Burstyn I**: Prediction of exceedance of thresholds by short-term benzene concentration from long-term integrated measurements in Corpus Cristi, Texas. Consulting project for the US Environmental Protection Agency (Order number EP-16-C-000142), December 2017.
- Burstyn I**: Peering through the mist: What does the chemistry of contaminants in electronic cigarettes tell us about health risks? July - August 2013, Drexel University School of Public Health, Philadelphia, PA

(<http://publichealth.drexel.edu/SiteData/docs/ms08/f90349264250e603/ms08.pdf>); with discussion at <http://antithrlies.com/2013/08/08/breaking-news-new-study-shows-no-risk-from-e-cigarette-contaminants/> (>30,000 people read *press release* of the study in the first week alone, example of media coverage is <http://news.msn.com/rumors/rumor-e-cigarettes-are-as-harmful-as-the-real-things>).

- Frank AL, Gross-Davis CA, **Burstyn I**, Heavner K, Klotz J: Investigation of a Polycythemia Vera, Essential Thrombocythemia and Primary Myelofibrosis Cluster in Northeast Pennsylvania: A Case-Control Study. Final Report to Agency for Toxics Disease Registry. Drexel University School of Public Health, Department of Environmental and Occupational Health, August 29, 2013.
- Gustafson P, **Burstyn I**: Bayesian inference of gene-environment interaction from incomplete data: What happens when information on environment is disjoint from data on gene and disease? The University of British Columbia, Department of Statistics, Technical Report #252, September 2009 (<http://www.stat.ubc.ca/Research/TechReports/tr/252.pdf>)
- Boffetta P, Olsson A, Agostini M, Hansen J, Funch Lassen C, Johansen C, Kjaerheim K, Langard S, Stucker I, Ahrens W, Behrens T, Lindbohm M-L, Heikkilä P, Heederik D, Portengen L, Shaham J, Ferro G, de Vocht F, **Burstyn I**, Kromhout H: A case-control study of lung cancer nested in a cohort of European asphalt workers. International Agency for Research on Cancer, Lyon, July 1, 2009 (<http://www.iarc.fr/en/research-groups/LCA/AsphaltReport.pdf>)
- Burstyn I**, Wild TC: Best practices for occupational health and safety officer work inspections. Report to the government of Alberta, University of Alberta, Edmonton, September 30, 2008
- Burstyn I**, Cherry N, Armstrong B, Deddens, JA, Kim H-M, Yasui Y: The effects on bias in risk estimates of correlation between exposure level and its error variance in group-based exposure assessment. Report on CCERN-funded project, University of Alberta, Edmonton, May 31, 2005.
- Kromhout H, van Tongeren M, **Burstyn I**: Design of exposure measurement surveys and their statistical analyses. In: Gardiner & Harrington, editors. *Occupational Hygiene*, 3rd edition. Oxford: Blackwell Publishing. Chapter 11 (June 14, 2005) ISBN: 1405106212, pp 124-44.
- Cherry N, Senthilselvan A, Beach J, **Burstyn I**: Pesticide use and health of farmers. Final report to Alberta Heritage Foundation for Medical Research, University of Alberta, Edmonton, September 2004.
- Kromhout H, **Burstyn I**, Vermeulen R, de Vocht F, Baarslag F, Straif K, Taeger D, Holthenrich D, Heise M, Bedemann K-H, Sorahan T, Nichols L, Richardson M, Hagmar L, Jakobson K, Bergendorf U, Jonsson B, Dost A, Straughan JK, Swuste P, Szeszenia-Dabrowska N, Peplonska B, Sobala W: Improved Exposure Assessment for Prospective Cohort Studies and Exposure Control in the Rubber Manufacturing Industry (Jan 2002 - June 2004). Final Report on EU projects QLK4-CT-2001-00160 and QLK4-CT-2002-02786, Utrecht, August 2004.
- Kromhout H, de Vocht F, Fransman W, van Wendel de Joode B, **Burstyn I**: Feasibility of retrospective dermal exposure assessment within the context of the nested case-referent study of the IARC study among European asphalt workers. Report for project ECE/03/09, Development of protocol for case-control study of lung cancer. Utrecht University, August 2004.
- Kromhout H, van Tongeren M, **Burstyn I**: Chapter 4 Ontwerpen van meetprogramma's voor blootstelling aan chemische stoffen en statistische analyse van meetresultaten. In van Alphen, W.J.T., Houba, R., Pennekamp H.P., Schreijers K.B.J., Simonis M.H.G.M., editors, *Handboek Arbeidshygiëne 2004*. Alphen aan den Rijn: Kluwer, pp. 85-105. (in Dutch)
- Burstyn I**: *Exposure assessment for a multicentric cohort study of cancer risk among European asphalt workers*. Ph.D. thesis, Utrecht University. CIP-Data Koninklijke Bibliotheek, Den Haag, the Netherlands; ISBN 90-393-2700-9; 2001 (<http://www.library.uu.nl/digiarchief/dip/diss/1957878/inhoud.htm>).
- Boffetta P, **Burstyn I**, Partanen T, Kromhout H, Svane O, Langård S, Järholm B, Frentzel-Beyme R, Kauppinen T, Stucker I, Shaham J, Heederik D, Ahrens W, Bergdahl I, Cené S, Ferro G, Heikkilä P, Hooiveld M, Johansen C, Randem B, Schill W: *IARC epidemiological study of cancer mortality among European asphalt workers*. IARC Internal Report No. 01/003. International Agency for Research on Cancer, Lyon, France; October 2001.
- Burstyn I**: *Determinants of flour dust exposure in bakeries*. Master's thesis. University of British Columbia Library, Special Collections Division, Vancouver, Canada; 1996.

Research funds requested (*) or active

The association between smoking tobacco and medical consequences of COVID-19 infection among pregnant people*

Source: National Institute for Health (R03)
 PI: Xi Wang
 Dates: 2024-2026

Impact of Measurement Error in Adjustment and Selection of Covariates in Randomised Controlled Trials*

Source: National Institute for Health and Care Research (UK)
 PI: Paul H Lee
 Dates: 2024-2026

Primary prevention of Clostridoides difficile colonization and infection through improved exposure assessment* (scored but not funded)

Source: Agency for Healthcare Research and Quality (R01)
 PI: Neal Goldstein
 Dates: 2024-2029
 USD: \$2,273,537

Towards prevention of HIV among vulnerable and stigmatized populations using geospatial data

Source: NIH/NIAID (1K01AI14335601)
 PI: Neal Goldstein
 Dates: 2019-2024
 USD: \$130,000

Research funds formerly held

Assessment of neutralizing antibodies in serum collected from health care workers in 4 provinces

Source: COVID-19 Immunity Task Force (Canada)
 PI: Nicola Cherry
 Dates: September 2023-March 2023
 CDN: \$1,128,353

A feasibility study to develop a multilevel occupational health intervention program for nail salon employees and owners

Source: CDC/NIOSH R21OHO11740-02
 PI: Tran Huynh
 Dates: September 2020 - August 2022
 USD: \$234,996 (year 1)

Interactions between environmental factors, low-penetrant genetic susceptibilities, and colorectal cancer risk in Atlantic Canada

Source: Canadian Institutes for Health Research
 PI: Derrick Lee
 Dates: 2019-2022
 CND: \$99,500

The impact of COVID-19 on health of physicians, nurses and other healthcare workers: an inter-provincial cohort study

Source: Canadian Institutes of Health Research
 PI: Nicola Cherry
 Dates: September 2020-May 2022
 CDN: \$1,023,330

Improving spatial surveillance for COVID-19 cases while accounting for errors in testing

Source: COVID-19 Rapid Response Research & Development Awards, Drexel University

PI: Neal Goldstein and Igor Burstyn

Dates: 2020

USD: \$9,864

Development of an ultra-low-cost calibration system for measurement of synthetic fibres

Source: National Institute for Occupational Safety and Health ERC

PI: Boris Reiss

Dates: 2018-2019

USD: \$15,000

Opening the doors for diverse populations to health disparities research

Source: The National Institute on Minority Health and Health Disparities (NIMHD) (R25)

PI: Warren Hilton

Dates: 2011-2016

USD: 1,615,125

Regulation of CRTh2 and its role in allergic disease

Source: Canadian Institutes of Health Research

PI: Lisa Cameron

Dates: 2011-2016

CDN: 562,993

Early life environmental exposures and autism in an existing Swedish birth cohort

Source: Autism Speaks

PI: Brian K Lee

Dates: 2012-2015

USD: 448,423

Mapping perceptions of environmental health risk: A comparison of three Philadelphia communities

Source: The Social Science Research Fund (intramural Drexel University award)

PI: Alison Kenner

Dates: 2013-2014

USD: 11,000

Validating lichen indices as public-health indicators using data from the National Health and Nutrition Examination Survey (NHANES)

Source: The USDA Forest Service

PI: Yvonne Michael & **Igor Burstyn**

Dates: 06/2013 - 06/2014

USD: 19,390

Prenatal PBDE exposure and ASD-related developmental outcomes in the EARLI cohort

Source: Autism Speaks, EEARN

PI: Craig J. Newschaffer

Dates: 01/2013 - 12/2014

USD: 300,000

Epidemiological and Biostatistical Challenges in the Early Autism Risk Longitudinal Investigation: Errors in Exposures and Efficient use of Pooling of Bio-specimens in Exposure Assessment

Source: Autism Science Foundation

PI: Craig J. Newschaffer & **Igor Burstyn**

Dates: 2012-2013

USD: 35,000

MRI: Acquisition of a Soot-Particle Aerosol Mass Spectrometer, for the Measurement of Particulate Chemical Composition

Source: National Science Foundation (Major Research Instrumentation Initiative)
PI: Peter F. De Carlo, co-PI: **Igor Burstyn**
Dates: 2012-2013
USD: 467,925

Smoke-free housing evaluation

Source: Community Transformation Grant, CDC; sub-contract from Philadelphia Department of Public Health
PI: Ann C Klassen
Dates: 2012-2013

Occupational exposures throughout life course and late life lower-body bone health

Source: Faculty Research Development Grants 2011-12, School of Public Health, Dept Epi & Biostats
Co-PIs: Yvonne L. Michael & **Igor Burstyn**
Dates: 2011-12
USD: 5,000

Advanced data mining techniques for predicting exposure to workplace hazards

Source: 2011 Cross-Disciplinary Mini-Grant Competition (Drexel University (DECI) competition)
PI: **Igor Burstyn**, Yuan An, Tony (X.) Hu
Dates: 2011-2012
USD: 6,000

Early autism risk longitudinal investigation (EARLI) network (grant # 1 R01ES016443)

Source: National Institute of Environmental Health Sciences
PI: Craig J. Newschaffer
Dates: 04/01/08 – 03/31/2013 (joined project as co-investigator in 2010)
USD: 14,396,239

Study of health outcomes in children with autism and their families (contract # HHS-N-271-2010-00033-C)

Source: National Institute Mental Health
Project Director: Taylor Dennen, the Lewin Group
PI at Drexel: Craig J. Newschaffer
Dates: 9/20/2010 - 9/19/2012
USD: 4,029,424 (Drexel Sub - \$362,452)

Measuring traffic exposure and assessing environmental equity

Source: Cancer Research Society (Montreal)
PI: Kristan Aronson
Dates: 2010-2012
CDN: 119,740

Using statistical modeling and machine learning approaches to uncover the latent decision rules used in experts' assessment of occupational exposure from questionnaires

Source: Intramural funding/concept, National Cancer Institute, USA
PI: Melissa Friesen
Dates: 2010-2013

Philadelphia neighbourhoods, maternal obesity, and birth outcomes in a hospital-based population

Source: Faculty Research Development Grants 2010-11, School of Public Health, Dept Epi & Biostats
PI: Nora L Lee
Dates: 2010-11
USD: 5,000

Welding and unborn child

Source: WorkSafeBC
PI: Nicola Cherry
Dates: 2010
CDN: 29,958

Maternal exposure to polycyclic aromatic hydrocarbons and small-for-gestational-age birth

Source: Canadian Institutes of Health Research: National Strategy on Patient Oriented Research (Priority Announcement Grant New)

PI: **Igor Burstyn**

Dates: 2009

CDN: 27,950

Mental ill-health at the workplace: a proposal for database linkage

Source: Institute of Health Economic

PI: Nicola Cherry

Dates: 2008-2009

CDN: 47,500

Maternal exposure to common pollutants and fetal growth restriction: consequences and interventions

Source: Alberta Heritage Foundation for Medical Research (Population Health Investigator Award renewal)

PI: **Igor Burstyn**

Dates: 2008-2011 (terminated in 2009 due to loss of eligibility upon relocation to USA)

CDN: \$333,000 (salary support), \$30,000 (research prize), \$15,000 (research allowance)

Integrated methodology for assessment of human exposure to air pollutants

Source: The National Sciences and Engineering Research Council

PI: **Igor Burstyn**

Dates: 2006-2011 (terminated in 2009 due to loss of eligibility upon relocation to USA)

CDN: 80,000

A pilot study to demonstrate the feasibility of a pan-Canadian study of gene-environment interactions in occupational asthma

Source: AllerGen Inc.: Allergy, genes, and environment network

PI: Nicola Cherry

Dates: 2008-2009

CDN: 50,025

How accurate is self-reported smoking in antenatal risk assessment?

Source: University (of Alberta) Hospital Foundation

PI: **Igor Burstyn**

Dates: 2007-2008

CDN: 14,046

Best practices for occupational health and safety officer work inspections

Source: Alberta Human Resources and Employment

PI: **Igor Burstyn**

Dates: 2006-2008

CDN: 152,074

Measurement error in cumulative exposure in case-control studies of gene-environment interaction
Source: Canadian Institutes of Health Research (Pilot Project Grant - Population and Public Health Research Methods and Tools Competition)

PI: **Igor Burstyn** and Yutaka Yasui

Dates: 2006-2008

CDN: 99,800

Visiting lecturer grant to invite Dr. J Douwes to the University of Alberta

Source: Alberta Heritage Foundation for Medical Research

PI: **Igor Burstyn**

Dates: 2006

CDN: 1,588

Emerging contaminants as determinants of maternal hypothyroxinaemia in Edmonton, Alberta

Source: University (of Alberta) Hospital Foundation

PI: Jonathan Martin

Dates: 2006

CDN: 24,449

Use of database linkage for the surveillance of occupational asthma

Source: AllerGen Inc.: Allergy, genes, and environment network

PI: Nicola Cherry

Dates: 2005-2006

CDN: 76,732

Development and application in Alberta of new exposure assessment methods for environmental epidemiology

Source: Alberta Heritage Foundation for Medical Research

PI: **Igor Burstyn**

Dates: 2005-2008

CDN: 180,000 (establishment grant) + 40,000 (major equipment grant) = 220,000

A case-control study nested in the IARC multicentric cohort of European asphalt workers

Source: Industrial associations representing European asphalt industry

PI: Paolo Boffetta

Dates: 2005-05/2008

€: 2,196,590

Molecular epidemiology of breast cancer

Source: Canadian Institutes of Health Research/ Canadian Breast Cancer Research Alliance

PI: Kristan Aronson

Dates: 2004-2009

CDN: 1,244,986

The effects on bias in risk estimates of correlation between exposure level and its error variance in group-based exposure assessment

Source: Canadian Cancer Etiology Research Network

PI: **Igor Burstyn**

Dates: February 2004 - May 2005

CDN: 55,645

Elaboration of generic models for predicting variance components of occupational exposure frequency distributions

Source: Canadian Institutes of Health Research (Research Allowance from CIHR New Investigator Award)

PI: **Igor Burstyn**

Dates: December 2003 - February 2007

CDN: 50,000

Exploratory analysis of exposure measurements in support of an epidemiological study of potential health effects of emissions from oil and natural gas field facilities

Source: The Western Interprovincial Scientific Studies Association

PI: **Igor Burstyn**

Dates: December 2003-June 2005

CDN: 145,105

Establish the framework and operating system for a CEFIC database (CEMAS) (extension of the previous project on CEFIC-supported exposure database)

Source: The European Chemical Industry Council (CEFIC)

PI: John Cherrie

Dates: January-September 2003

Extension of the project on improved exposure assessment for prospective cohort studies and exposure control in the European rubber manufacturing industry to Poland

Source: European Commission: Research Directorate-General; Directorate E: QoL-2002-NAS call for proposals

PI: Hans Kromhout

Dates: December 2002 - June 2004

Improved exposure assessment for prospective cohort studies and exposure control in the European rubber manufacturing industry (EXASRUB)

Source: European Commission: Research Directorate-General; Directorate E (Contract No. QLK4-CT-2001-00160)

PI: Hans Kromhout

Dates: January 2002 - June 2004

Establishing the framework and operating system for a CEFIC-supported exposure database

Source: The European Chemical Industry Council (CEFIC)

PI: John Cherric

Dates: January 2001 - July 2002

Teaching & supervisory experience
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Masters of Public Health (course-based)

Drexel University School of Public Health:

Advisor or preceptor for Community-Based Masters Projects: 5 students in 2010-11 (Joshua Gluek publishes results in a peer reviewed journal; resulting poster wins award at an international conference, finalist for the Outstanding CBMP Award), 2 students in 2011-12, 1 student 2012-13, 4 students in 2013-14 (Allison Insley wins the Outstanding CBMP Award and submits her work for publication, Brittany Rosen publishes results in a peer reviewed journal), 2 students in 2014-15, 2 students in 2015-16 (Kathryn McNamara wins Society of Women Environmental Professionals Scholarship [www.swepweb.com], presents her work at a national conference AIHCe2016 [http://aihce2016.org/], and wins Outstanding CBMP Award).

University of Alberta: Advisor to 7 Masters of Public Health students specializing in occupational health

Masters of Science (thesis-based) (co-supervisor or supervisor)

Student	Institution	Dates	Title	Area	Primary supervisor
X. You	University of Alberta	2004-2006	Determinants of Airborne Concentrations of Volatile Organic Compounds in Rural Areas of Western Canada	Environmental Sciences	Igor Burstyn
S. Fan	University of Alberta	2005-2006	Spatiotemporal Modeling of Ambient Sulfur Dioxide Concentrations in Rural Western Canada	Environmental Sciences	Igor Burstyn
M. Hamm	University of Alberta	2006-2008	Maternal Hypothyroxinaemia, Fetal Growth Restriction, and Early Neonatal Morbidity	Epidemiology	Igor Burstyn
N. Kapur	University of Alberta	2006-2009*	Effect of Maternal Smoking during Pregnancy on Early Neonatal Morbidity	Epidemiology	Igor Burstyn
E. Chan	University of Alberta	2006-2010	Perfluorinated Acids as Determinants of Maternal Hypothyroxinaemia	Epidemiology & Environmental Sciences	J. W. Martin
K. Griffith	Drexel University	2010-2011	Comparison of Methods for Quantification of Surface Contamination with Microbial Spores in an Office Building	Environmental Engineering	P. Gurian
J. R. Schouten	University of Alberta	2006-2011	Biological Factors in the Etiology of Pulmonary Sarcoidosis	Epidemiology	J. Beach

* withdrew to pursue clinical fellowship award in Australia

Doctoral students (co-supervisor or supervisor)

Student	Institution	Dates	Title	Area	Primary supervisor
Nicole Gidaya	Drexel University	2009-2013	The effect of in utero exposure on B2AR agonists and SSRIs on the risk for autism spectrum disorders.	Epidemiology	Craig Newschaffer
Carol Ann Gross-Davis	Drexel University	2009-2014	Environmental etiology of polycythemia vera, essential thrombocythemia and myelofibrosis: A case-control study on northeast Pennsylvania.	Epidemiology	Craig Newschaffer
Li Xing	University of British Columbia	2008-2014	Model and inference issues related to exposure-disease relationships.	Statistics	Paul Gustafson
Alison Singer	John Hopkins University	2012-2015	Parental exposure to occupational to asthmagens and risk of autism spectrum disorders.	Epidemiology	Danielle Fallin
Bo Y. Park	Drexel University	2012-2015	Prenatal fetal testosterone and early autism spectrum disorder related neurodevelopmental outcomes.	Epidemiology	Craig Newschaffer
Hao Luo	University of British Columbia	2011-2016	The gene-environment independence assumption in the analysis of case-control data	Statistics	Paul Gustafson
Derrick Lee	University of British Columbia	2011-2016	Occupational exposure to polycyclic aromatic hydrocarbons, breast cancer risk, and interactions with genetic variants	Epidemiology	John Spinelli & Igor Burstyn

Post-doctoral fellows

1. Hyang-Mi Kim, PhD (2004-2007) Co-supervisor: Dr. Yutaka Yasui
 Topic of research: Measurement error and group-based exposure assessment in epidemiology
 Now: practicing biostatistician
2. Fortune Sithole, PhD (2007)
 Topics of research: Epidemiology of autism; predictors of repeated WCB claims
 Now: Associate Dean for Clinical Affairs and Professional Opportunities/ Associate Professor, Ross University
3. Juxin Liu, PhD (2007-2008) Co-supervisor: Dr. Paul Gustafson
 Topics of research: Bayesian approach to exposure misclassification in matched case-control studies that use job-exposure matrix; misspecified models in gene-environment interaction epidemiology
 Now: Associate Professor at the University of Saskatchewan, tenured
4. Anna Leavey, PhD (2010-2011)
 Topics of research: Environmental epidemiology and exposure assessment
Left to be a post-doctoral fellow at Washington University in St. Louis
 Now: Researcher, Post-doctoral fellow at Washington University in St. Louis
5. Michelle Kondo, PhD (2011-2013)
 Topics of research: Exposure assessment to traffic-related air pollution via community-based participatory research
 Now: USDA Forest Service, Philadelphia, PA
6. Karyn Heavner, PhD (2008-2010, 2012-2013)
 Topics of research 1: Epidemiological methods and application of epidemiological results to public health policy
 Topics of research 2: Evaluating epidemiological and biostatistical challenges in the EARLI investigation
 Now: Assistant Teaching Professor, Zuckerberg College of Health Sciences, University of Massachusetts at Lowell

Junior faculty career development

Rachael M. Jones, PhD

Associate Professor (promoted and tenured in 2016 at University of Illinois Chicago)
Currently Professor & Chair, Department of Environmental Health Sciences, Director, Southern California Education and Research Center, UCLA (since 2022)
 Co-mentor on 1K01OH010537-01 from the National Institute for Occupational Safety and Health (CDC/NIOSH)
Statistical Analysis of Occupational Exposure Data
 Award Period: 4/2014-3/2017; *ongoing career mentoring by mutual consent*

Tran Huynh, PhD

Associate Professor (University of Minnesota, 2023-now)
 Associate Professor (promoted and tenured in 2023 at Drexel University)
 Environmental and Occupational Health, Dornsife School of Public Health, Drexel University
 Co-mentor on K01OH011191-01 from the National Institute for Occupational Safety and Health (CDC/NIOSH)
Health and Safety Training Module for Vietnamese Nail Salon Workers: A Feasibility Study
 Award Period: 9/2016-8/2019; *ongoing career mentoring by mutual consent*

Boris Reiss, PhD, CIH

Assistant Professor, The University of Arizona, USA (2017-2020)
Currently Assistant Professor, Katholieke Universiteit Leuven, Belgium (2021-now)
Ongoing career mentoring by mutual consent (2020-present)

Neal Goldstein, PhD, MBI

Associate Research Professor (2022-now)
 Assistant Research Professor (2016-2022)
 Department of Epidemiology and Biostatistics, Drexel University
 Co-mentor on 1K01AI14335601 from NIH/NIAID
Towards prevention of HIV among vulnerable and stigmatized populations using geospatial data
 Award period: 2019-2024

Classroom teaching at Drexel University, as primary instructor*	
EOH625 (PBHL647): Occupational and environmental epidemiology* (Cross-listed as a core doctoral course from fall 2019)	2011-23
EOH725 (course I created: seminar in environmental epidemiology) (Cross-listed as a core doctoral course from fall 2019)	2020-22
Directed reading courses (doctoral level *; masters level **)	
Risk and decision analysis (PBHL503)**	2015
Exposure measurement error in epidemiology (PBHL822)*	2013
Uncertainty in environmental exposure models (PBHL822)*	2011
Gene-environment interactions (PBHL822)*	2010
Guest lecturer	
PBHL 835/EPI 803 (proposal writing seminar)	2017-22
PBHL830 (advanced epidemiology: missing data)	2019
PBHL830 (advanced epidemiology: measurement error)	2012-19
PBHL822 (advanced epidemiology: Bayesian methods for measurement error)	2014-15
PBHL638 (perinatal epidemiology)	2010-16
PBHL640 (introduction to environmental health)	2010-15
PBHL641 (hazard assessment)	2010-13
PBHL 401 (epidemiology in public health)	2012
UNIV241 (the great works symposium: social determinants of health)	2012
PBHL643 (occupational and environmental health and toxicology)	2010
Classroom teaching at the University of Alberta, as primary instructor	
Public Health Sciences 521: Occupational hygiene	2003-10

Directed reading: Environmental and occupational exposure and outcome of low-birth weight and/or small for gestational age	2007
Directed reading: Health and safety systems	2006
Directed reading: Exposure assessment for surveillance of occupational asthma	2006
Classroom teaching at other institutions	
Undergraduate course in biological toxicology	
Utrecht University	Fall, 2002
Post-doctoral course in occupational toxicology	
Catholic University of Nijmegen	September 9-20, 2002
6 th Advanced course on occupational and environmental epidemiology: Principles of exposure assessment	
Utrecht University	June 3 - 7, 2002
5 th Advanced course on occupational and environmental epidemiology: Principles of exposure assessment	
Utrecht University and the Netherlands School of Public Health	July 2 - 6, 2001
Master of public health course: Occupational and environmental health: Principles, epidemiology and practice	
The Netherlands School of Public Health	February 9, 2001
M.Sc.-level courses in occupational hygiene	
The University of British Columbia, Canada	1996 and 1997
<ul style="list-style-type: none"> ▪ Taught statistics and research methods; created lectures, handouts, assignments and examinations; graded assignments, papers and examinations. Dr. Paul Demers taught the second part of the course that dealt with basic occupational epidemiology and exposure assessment for occupational epidemiology. ▪ Prepared and delivered four lectures on sampling strategies; compiled reading list; designed, administered and graded an assignment. Course coordinator and primary instructor: Dr. Kay Teschke. 	

Professional activities, memberships and volunteer experience

Reviewer: *The Annals of Occupational Hygiene, American Journal of Epidemiology, Epidemiology, American Industrial Hygiene Association Journal, International Journal of Epidemiology, Occupational and Environmental Medicine, Het Tijdschrift voor Toegepaste Arbeidwetenschap, the Journal of Occupational and Environmental Hygiene, Regulatory Toxicology and Pharmacology, Chemosphere, Journal of Neurology, Neurosurgery and Psychiatry, the International Journal of Environment and Pollution, Environmental Pollution, Journal of Environmental Management, BMC Public Health, Journal of Occupational Health, Epidemiologic Perspectives & Innovations, Pharmacogenetics and Genomics, The Journal of Exposure Analysis and Environmental Epidemiology, Autism: International Journal of Research and Practice, Canadian Medical Association Journal, American Journal of Industrial Medicine, International Journal of Environmental Research and Public Health, Environment International, Environmental Health Perspectives, Environmental Health (BMC), Cancer Epidemiology, Drug and Alcohol Dependence, Journal of Hazardous Materials, the American Journal of Psychiatry, Bioelectromagnetics, Autism Research, PLOS One, Annals of Epidemiology*

Service on editorial boards:

Academic Editor on the <i>PLOS ONE</i> Editorial Board	2022-now
Assistant Editor: <i>Annals of Work Exposure and Health</i>	2021-now
Member of The International Advisory Board for journal <i>The Annals of Occupational Hygiene</i> (re-named <i>Annals of Work Exposure and Health</i> in 2017)	2010-2021
Editorial Board Member: <i>BMC Medical Research Methodology</i>	2020-now
Senior Associate Editor: <i>Global Epidemiology</i>	2023-now
Machine Learning and Artificial Intelligence in Epidemiology; guest editor, <i>Global Epidemiology</i>	2023-2024

<https://www.sciencedirect.com/journal/global-epidemiology/about/call-for-papers#machine-learning-and-artificial-intelligence-in-epidemiology>

Associate Editor: <i>Global Epidemiology</i>	2020-2023
Associate Editor: <i>Journal of Occupational & Environmental Hygiene</i>	2023-now
Editorial Review Board: <i>Journal of Occupational & Environmental Hygiene</i>	2012-2023
Editorial Board Member: <i>International Journal of Environmental Research and Public Health</i> (led resignation of colleagues in protest of journal's policies, anticipating its fall from grace in 2023)	2019-2020
Lead editor & creator of Topical Collection within of <i>International Journal of Environmental Research and Public Health</i> on "Methodological Innovations and Reflections" (http://www.mdpi.com/journal/ijerph/special_issues/methodological)	2017-2020 (resigned)
Guest editor (with G Luta) & creator of the special issue of <i>International Journal of Environmental Research and Public Health</i> on "Methodological Innovations and Reflections" (http://www.mdpi.com/journal/ijerph/special_issues/methodological_innovations)	2014-2016
Guest editor of the special issue of <i>International Journal of Environmental Research and Public Health</i> on "Maternal and Child Health" (http://www.mdpi.com/journal/ijerph/special_issues/maternal_child_health)	2011-2014
Guest editor of the special issue of <i>the American Journal of Industrial Medicine</i> on the cohort study of European asphalt workers	2003

Community Service

The Consumer Advocates for Smoke-free Alternatives Association (http://casaa.org/)	Board of Directors	2014-2016
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Professional societies and advisory groups:

Beryllium workers' study international advisory group		2015
Science Advisor to <i>The Consumer Advocates for Smoke-free Alternatives Association</i>		2014-2016
Member of Expert (Advisory) Panel for the <i>Styrene Project</i> , Aarhus University Hospital (Denmark)		2012-now
Environmental Epidemiology of Autism Risks Network (Autism Speaks & National Institute of Environmental Health Sciences, NIEHS)		2010-now
Member of EPICOH (Epidemiology in Occupational Health) Management Group		2009-now
<i>Founding member</i> of the International Society for Children's Health and the Environment (ISCHE)		2006-now
International Commission on Occupational Health		2005-now
The Canadian Cancer Etiology Research Network		2003-now
The Canadian Association for Research on Work and Health		2003-now
American Industrial Hygiene Association (including Alberta local section)		2003-2009
British Occupational Hygiene Society		2003-2009
Canadian Society for Epidemiology and Biostatistics		2005-2006
International Society of Exposure Analysis		2003-2006
International Society of Environmental Epidemiology		2003-2006
American Conference of Governmental Industrial Hygienists		1999-2000

External committees:

Health and Environmental Sciences Institute (HESI): Environmental Epidemiology Committee (https://hesiglobal.org/environmental-epidemiology-for-risk-assessment/), member of steering team (2017-2020), co-chair (2020-now)	2017-now
The International Conference on Epidemiology in Occupational Health, (EPICOH 2017) Edinburgh, The UK, 28-31 August 2017, the international scientific committee	2016-2017
The 8th International Conference on the Science of Exposure Assessment in Epidemiology and Practice (X2016), the scientific committee	2015-2016
The 10 th International Occupational Hygiene Association Conference, London (http://www.ioha2015.org/), the scientific committee	2014
The United States Environmental Protection Agency, the peer reviewer for the funding announcement <i>Air Pollution Monitoring for Communities – K1</i>	2014
Health and Environmental Sciences Institute (http://www.hesiglobal.org/i4a/pages/index.cfm?pageid=1): Evaluating Causality in Epidemiologic Studies, <i>subcommittee member</i>	2012-2013
The 23th International Conference on Epidemiology in Occupational Health, (EPICOH 2013) Utrecht, The Netherlands, 18-21 June 2013, the scientific committee	2012-2013
The 24 th Annual Conference of International Society of Environmental Epidemiology (ISEE2012), August 24-30, Columbia, SC, USA; <i>co-chair of session</i> “Biomarkers of Exposure” (http://sacu.sc.edu/reg/isee2012/index.php)	2012
The Canadian Institutes of Health Research (CIHR), The Knowledge Translation Research Committee, <i>external reviewer</i>	2012
X2012, The 7th International Conference on the Science of Exposure Assessment, 2-5 July 2012, the Royal College of Physicians in Edinburgh, UK: the scientific committee; <i>chair of the session</i> on “Statistical Methods” (http://www.x2012.org/)	2011-2012
22th International Conference on Epidemiology in Occupational Health (EPICOH2012), Oxford, UK, the scientific committee (http://epicohoxford2011.org.uk); <i>chaired</i> two sessions at the conference.	2010-2011
National Research Foundation (Republic of South Africa) <i>ad hoc</i> reviewer	2011
Examiner, MMedVet Thesis: <i>Cadmium and lead concentrations in livers and kidneys of cattle slaughtered at Grootfontein Abattoir in Namibia</i> by Emmanuel Muchimbidziki Midzi, Department of Paraclinical Sciences, Section: Veterinary Public Health, University of Pretoria	2011
Examiner, M. Sc. Thesis: <i>Factors affecting the age at diagnosis of autism spectrum disorders in Nova Scotia</i> by Priscilla Frenette, Department of Community Health and, Epidemiology, Dalhousie University	2010
WCB Manitoba, reviewer of research proposal	2009
Agence Nationale de la Recherche (France), <i>ad hoc</i> reviewer	2009
X2009 The Sixth International Conference on Innovations in Exposure Assessment in Occupational Epidemiology and Hygiene (http://www.x2009.org/); August 17-20, 2009, Harvard University, Boston , MA, USA: scientific committee	2008-2009
20th International Conference on Epidemiology in Occupational Health: abstract reviewer, scientific committee	2008
The National Science Foundation (USA), <i>ad hoc</i> reviewer	2008
19th International Conference on Epidemiology in Occupational Health: co-chair of organizing committee, member of the scientific committee (http://uofacc.gobigevent.com/epicoh2007)	2006-2007
Canadian Institutes of Health Research "Public, Community and Population Health A" Grants Committee, committee member	2003-2006
WSIB research grant competition, external reviewer	2006
Natural Sciences and Engineering Research Council of Canada: Collaborative Health Research Project (CHRP) grant external reviewer	2006
X2004 Conference, Utrecht University, The Netherlands: the scientific committee (http://www.iras.uu.nl/X2004)	2003-2004

School and Departmental committees:

Drexel University

MPH Admission Committee (School of Public Health); <i>Chair</i> of the committee as of March 2016	2015-now
Program Director: Master of Science on Environmental and Occupational Health (renamed position)	2023-2025
Master of Science on Environmental and Occupational Health Oversight Committee (inaugural Chair)	2018-2023
An <i>ad-hoc</i> committee to review the DSPH nominations for the 2018 Graduate College Student Awards	2018
<i>Mid-term review of tenure-track faculty:</i>	
Mentor for Dr Ghassan Hamra (exp assessment/epi, Dept Occupational & Environmental Health)	2016
Dr Loni Philip Tabb (statistician, Dept Epidemiology and Biostatistics)*	2013
Dr Brian Lee (epidemiologist, Dept Epidemiology and Biostatistics)*	2012
Dr Anneclaire de Roos (epidemiologist, Dept Occupational & Environmental Health)*	2014
	* tenured
Appointment, Promotion, and Tenure Committee, standing (School of Public Health)	2014-2017
Appointment, Promotion, and Tenure Committee, <i>ad hoc</i> (AJ Drexel Autism Institute)	2019-2020
Selection Committee for the Outstanding CBMP Award	2010-2014
The Executive Committee of the Faculty of the School of Public Health (<i>chair</i> of the sub-committee on “physical space” (2012-09/2014) & <i>member</i> of the committee from 09/2014; <i>member</i> of the department chair’s review taskforce (2013); <i>chair</i> of working group on “faculty and chair evaluation (2014))	2011-2015
Institute for Healthcare Informatics (http://www.ischool.drexel.edu/IHI/)	2010-2015
<i>Ad hoc</i> Committee on Research (School of Public Health)	2012-2015
Search Committee the Dean of the School of Public Health (<i>successful</i>)	2012-2013
Drexel Engineering Cities Initiative (http://www.drexel.edu/cities/)	2011-2012
University Planning: Research Cyber-Infrastructure Committee	2011-2013
Director of Research, Department of Environmental & Occupational Health	2010-2013
Drexel University Faculty Senate, Committee on Research and Scholarly Activity	2010-2013
Faculty Search & Selection Committees in Dept. of Environmental & Occupational Health:	
■ Associate Professor, in epidemiology and risk assessment (<i>successful</i>)	2010-2012
■ Assistant Professor, in injury (<i>cancelled</i>)	2012-2014
■ Chair of committee, Assistant/Associate Professor, School-wide cluster hire in urban health (<i>successful</i>)	2014
Fulbright Campus Review Committee	2011-2013
Study Group: New Faculty/New Ideas (under the Provost’s office)	2011
School of Public Health, Grand Rounds Committee	2010-2011
<i>Department of Public Health Sciences, University of Alberta</i>	
Acting Chair, Computer Committee	2006
Coordinator of Grand Rounds	2005-2006
Search and Selection Committee for Assistant Professor in Environmental Health	2003-2004
Doctoral Committee	2003-2006
Computer Committee	2003-2006