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Yale University, School of the Environment
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EDUCATION

Johns Hopkins University

Ph.D. in Environmental Engineering awarded 10/02.

M.S.E. in Environmental Management and Economics awarded 5/99.

Stanford University

M.S. in Environmental Engineering and Science awarded 1/94.

University of Edinburgh

M.Sc. Philosophy of Epistemology, Ethics and Mind awarded 10/20.

Massachusetts Institute of Technology

B.S. in Environmental Engineering Science, Minor in Music awarded 5/92.

WORK EXPERIENCE

Yale University

School of the Environment (formerly Forestry and Environmental Studies)

New Haven, CT

5/15 to present, *Mary E. Pinchot Professor of Environmental Health*

7/11 to 4/15, *Professor of Environmental Health*

7/08 to 6/11, *Associate Professor of Environmental Health*

1/04 to 6/08, *Assistant Professor of Environmental Health*

Secondary appointment with the Yale School of Public Health, Environmental Health Sciences Division

Secondary appointment with the Yale School of Engineering and Applied Sciences, Department of Chemical and Environmental Engineering

Johns Hopkins Bloomberg School of Public Health

Baltimore, MD

2/03 to 12/03, *Faculty – Assistant Scientist*

Chase Brexton Health Services (public health clinic)

Baltimore, MD

10/00 to 12/03. *Volunteer, Research Assistant*

Johns Hopkins University, Dept. of Academic Advising

Baltimore, MD

9/97 to 6/01. *Study Consultant*

Johns Hopkins University, Dept. of Geography and Environmental Engineering

Baltimore, MD

9/97 to 9/98. *Research Assistant*

National Center for Environmental Decision-Making Research

Knoxville, TN

6/97 to 8/97. *Intern. Based in Oak Ridge, TN*

Johns Hopkins University, Dept. of Geography and Environmental Engineering

Baltimore, MD

1/97 to 6/97. *Teaching Assistant*

Oak Ridge National Laboratory, Environmental Sciences Division
6/94 to 8/96, *Environmental Research Associate* (Contractor: Lockheed Martin)
6/93 to 8/93, *Intern*

Oak Ridge, TN

Eaton Corporation
Summers of 1988, 89, 90, and 92. *Laboratory Assistant*

Fletcher, NC

MIT, Parsons Laboratory
6/91 to 12/91. *Laboratory Research Assistant*

Cambridge, MA

MIT, Dept. of Urban Studies & Planning
9/89 to 1/90. *Software Design Assistant*

Cambridge, MA

AWARDS AND RECOGNITION

Elected to National Academy of Medicine (2020).

Highly Cited Researchers (2019). Identified as one of the world's most highly cited researchers for field and year (top 1%). <https://recognition.webofsciencegroup.com/awards/highly-cited/2019/>

Elected to the Connecticut Academy of Science and Engineering (2019).

Highly Cited Researchers (2018). Identified as one of the world's most highly cited researchers for field and year (top 1%). <https://hcr.clarivate.com/>

Article "Drought and the risk of hospital admissions and mortality in older adults in western USA from 2000 to 2013: a retrospective study" by Berman, JD, K Ebisu, RD Peng, F Dominici, and ML Bell, *Lancet Planetary Health* 1(1):e17-25 selected for NIEHS Extramural Paper of the Month (June 2017).

Best Environmental Epidemiology Paper (2015). "Mortality risk attributable to high and low ambient temperature: a multicountry observational study" Gasparrini et al. *Lancet* 2015.

Article "Association between airborne PM_{2.5} chemical constituents and birth weight—implication of buffer exposure assignment" by Ebisu et al. selected for the Highlights of 2014 special issue for *Environmental Research Letters* (2015).

Runner-up for the Kenneth Rothman Epidemiology Prize, awarded for the best paper in *Epidemiology*, for "Lights out: Impact of the August 2003 power outage on mortality in New York, NY" by Anderson and Bell (2013).

Prince Albert II of Monaco – Institut Pasteur Award, for research on Environmental Changes and Impacts on Human Health (2012).

Article "Heatwaves in the United States: Mortality risk during heatwaves and effect modification by heatwave characteristics in 43 US communities" by Anderson GB, ML Bell, *Environmental Health Perspectives* selected for NIEHS Extramural Paper of the Month (December 2010).

Runner-up for the Kenneth Rothman Epidemiology Prize, awarded for the best paper in *Epidemiology*, for "Weather-related mortality: How heat, cold, and heat waves affect mortality in the United States" by Anderson and Bell (2010).

Faculty Research Award, Yale School of Forestry and Environmental Studies (2010).

Article "The relationship between air pollution and low birth weight: effects by mother's age, infant sex, co-pollutants, and pre-term births" by Bell et al. selected for the "Best of 2008" special issue for *Environmental Research Letters* (2009).

Article "Emergency hospital admissions for cardiovascular diseases and ambient levels of carbon monoxide: results for 126 U.S. urban counties, 1999-2005" by Bell et al. *Circulation* selected for NIEHS Extramural Paper of the Month (October 2009).

Article “Weather-related mortality: how heat, cold, and heat waves affect mortality in the United States” by Anderson and Bell *Epidemiology* selected for NIEHS Extramural Paper of the Month (April 2009).
 Oak Ridge Institute for Science and Education (ORISE) Fellowship (2008).
 Article “Coarse particulate matter air pollution and hospital admissions for cardiovascular and respiratory diseases among Medicare patients” by Peng et al. *Journal of the American Medical Association* selected for NIEHS Extramural Paper of the Month (July 2008).
 NIH National Institute of Environmental Health Sciences (NIEHS) Outstanding New Environmental Scientist (ONES) Award (2006).
 Health Effects Institute Walter A. Rosenblith Young Investigator Award (2004).
 Air and Waste Management Association Annual Conference student poster competition, 2nd place (2002).
 Environmental Protection Agency (EPA) STAR Graduate Fellowship (1998).
 National Science Foundation (NSF) Graduate Fellowship (1992).
 Richard Lee Russell Award for academic achievement in civil engineering at MIT (1992).
 Hugh Darden Scholar for civil engineering and personal excellence at MIT (1991).
 Member of Tau Beta Pi and Chi Epsilon, national engineering and civil engineering honor societies.

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

240. S Heo, CC Lim, **ML Bell** (accepted). Relationships between local green space and human mobility patterns during COVID-19 for Maryland and California, USA. *Sustainability*.
239. JR Kelly, C Jang, B Timin, Q Di, J Schwartz, Y Liu, A van Donkelaar, RV Martin, V Berrocal, **ML Bell** (accepted). Examining PM_{2.5} concentrations and exposure using multiple models. *Environmental Research*.
238. Global Burden of Disease (GBD) 2019 Demographic Collaborators (2020). Global age-sex-specific fertility, mortality, healthy life expectancy (HALE), and population estimates in 204 countries and territories, 1950-2019: A comprehensive demographic analysis for the Global Burden of Disease Study 2019. *The Lancet* 369(10258), p. 1160-1203.
237. Global Burden of Disease (GBD) 2019 Risk Factors Collaborators (2020). Global burden of 87 risk factors in 204 countries and territories, 1990-2019: A systematic analysis for the Global Burden of Disease Study 2019. *Lancet* 396(10258), p. 1135-1159.
236. Lozano R, N Fullman, . . . **ML Bell**, . . . S Zodpey, CJL Murray (2020). Measuring universal health coverage based on an index of effective coverage of health services in 204 countries and territories, 1990-2019: A systematic analysis for the Global Burden of Disease Study 2019. *The Lancet* 396(10258), p. 1250-1284.
235. Fong KC, **ML Bell** (accepted). Do fine particulate air pollution (PM_{2.5}) exposure and its attributable premature mortality differ for immigrants compared to those born in the United States? *Environmental Research*.
234. Hess JJ, N Ranadive, C Boyer, L Aleksandrowicz, SC Anenberg, K Aunan, K Belesova, **ML Bell**, S Bickersteth, K Bowen, M Burden, D Campbell-Lendrum, E Carlton, G Cissé, F Cohen, H Dai, AD Dangour, P Dasgupta, H Frumkin, P Gong, RJ Gould, A Haines, S Hales, I Hamilton, T Hasegawa, M Hashizume, Y Honda, DE Horton, A Karambelas, H Kim, SE Kim, PL Kinney, I Kone, K Knowlton, J Lelieveld, VS Limaye, Q Liu, L Madaniyazi, ME Martinez, DL Mauzerall, J Milner, T Neville, M Nieuwenhuijsen, S Pachauri, F Perera, H Pineo, JV Remais, RK Saari, J Sampedro, P Scheelbeek, J Schwartz, D Shindell, P Shyamsundar, TJ Taylor, C Tonne, DV Vuuren, C Wang, N Watts, JJ West, P Wilkinson, SA Wood, J Woodcock, A Woodward, Y Xie, Y Zhang, KL Ebi (accepted). Guidelines for

- modeling and reporting health effects of climate change mitigation actions. *Environmental Health Perspectives*.
233. R Xu, P Yu, MJ Abramson, FH Johnston, JM Samet, **ML Bell**, A Haines, KL Ebi, S Li, Y Guo (accepted). Wildfires, global climate change, and human health. *New England Journal of Medicine*.
 232. JL Warren, ML Miranda, JL Tootoo, CE Osgood, **ML Bell** (accepted). Spatial distributed lag data fusion for estimating ambient air pollution. *Annals of Applied Statistics*.
 231. Deshpande A, MK Miller-Petrie, . . . **ML Bell**, . . . SI Hay, RC Reiner Jr (2020). Mapping geographical inequalities in access to drinking water and sanitation facilities in low-income and middle-income countries, 2000-17. *The Lancet Global Health* 8(9), p. e1162-e1185.
 230. **Bell ML**, KC Fong (accepted). Gender differences in first/corresponding authorship in public health research submissions during the COVID-19 pandemic. *American Journal of Public Health*.
 229. Gao Y, J Zhang, F Yan, LR Leung, K Luo, Y Zhang, **ML Bell** (accepted). Nonlinear effect of compound extreme weather events on ozone formation over the United States. *Weather and Climate Extremes*.
 228. Wang K, Y Zhang, S Yu, DC Wong, J Pleim, R Mathur, JT Kelly, **M Bell** (accepted). A comparative study of two-way and offline coupled WRF v3.4 and CMAQ v5.0.2 over the contiguous U.S.: Performance evaluation and impacts of chemistry-meteorology feedbacks on air quality. *Geoscientific Model Development*.
 227. Lee W, Y Kim, F Sera, A Gasparri, R Park, HM Choi, K Prifti, **ML Bell**, R Abrutzky, Y Guo, S Tong, M de Sousa Zanotti Stagliorio Coelho, PHN Saldiva, E Lavigne, H Orru, E Indermitte, JJK Jaakkola, NRI Rytty, M Pascal, P Goodman, A Zeka, M Hashizume, Y Honda, MH Diaz, C De la Cruz Valencia, A Overcenco, B Nunes, JP Teixeira, N Scovronick, F Acquaotta, A Tobias, AM Vicedo-Cabrera, MS Ragettli, YLL Guo, BY Chen, S Li, B Armstrong, A Zanobetti, J Schwartz, H Kim (2020). Projections of excessive mortality related to diurnal temperature range under climate change: A multi-country study. *Lancet Planetary Health* 4(11), p. E512-E521.
 226. Schuch D, M de Fatima Andrade, Y Zhang, ED de Frietas, **ML Bell** (2020). Short-term responses of air quality to changes in emissions under the Representation Concentration Pathway 4.5 Scenario over Brazil. *Atmosphere* 11(8), Art. 799. <https://doi.org/10.3390/atmos11080799>.
 225. Yu J, D Yang, Y Kim, M Hashizume, A Gasparri, B Armstrong, Y Honda, A Tobias, F Sera, AM Vicedo-Cabrera, H Kim, C Íñiguez, E Lavigne, MS Ragettli, N Scovronick, F Acquaotta, B Chen, YL Guo, M Coelho, P Saldiva A Zanobetti, J Schwartz, **ML Bell**, M Diaz, C Valencia, I Holobâcă, S Fratianni, Y Chung. Seasonality of suicide: A multi-country multi-community observational study (2020). *Epidemiology and Psychiatric Sciences* 29, e163. <https://doi.org/10.1017/S2045796020000748>.
 224. Son JY, KC Fong, S Heo, H Kim, CC Lim, **ML Bell** (2020). Reductions in mortality resulting from reduced air pollution levels due to COVID-19 mitigation measures. *Science of the Total Environment* 744, Art. 141012. Doi: 10.1016/j.scitotenv.2020.141012.
 223. Lee W, SS Hwang, I Song, C Park, H Kim, IK Song, H Choi, K Prifti, Y Kwon, J Kim, S Oh, Y Yang, M Cha, Y Kim, **ML Bell**, H Kim (accepted). COVID-19 in South Korea: epidemiological and spatiotemporal patterns of the spread and the role of aggressive diagnostic tests in the early phase. *International Journal of Epidemiology*. <https://doi.org/10.1093/ije/dyaa119>.
 222. Zhang, Y, P Yang, Y Gao, R Leung, **ML Bell** (2020). Health and economic impacts of air pollution induced by weather extremes over the continental U.S. *Environment International* 143, Art No. 105921.

221. Hashizume M, Y Kim, CFS Ng, Y Chung, L Madaniyazi, **ML Bell**, L Guo, H Kan, Y Honda, SM Yi, H Kim, Y Nishiwaki (2020). Health effects of Asian dust: a systematic review and meta-analysis. *Environmental Health Perspectives* 128(6), Art. No. 66001.
220. Reiner, Jr. RC, . . . **ML Bell** . . . (2020). Mapping geographical inequalities in childhood diarrhoeal morbidity and mortality in low-income and middle-income countries, 2000–17: analysis for the Global Burden of Disease Study 2017. *The Lancet* 395(10239), p. 1779-1801.
219. Woo SHL, JC Liu, X Yue, L Mickley, ML Bell (2020). Air pollution from wildfires and human health vulnerability in Alaskan communities under climate change. *Environmental Research Letters* 15(9), Article No. 094019, <https://doi.org/10.1088/1748-9326-ab9270>.
218. Son JY, KJ Lane, ML Miranda, **ML Bell** (2020). Health disparities attributable to air pollutant exposure in North Carolina: Influence of residential environmental and social factors. *Health and Place* 62. <https://doi.org/10.1016/j.healthplace.2020.102287>.
217. Whittaker S, N Deziel, Y Zhang, L Jin, Q Edwards, L Naraine, J Scarborough, D Allen, **M Bell** (2020). Ambient air pollution per specific land use types and activities in an urbanizing Eastern Caribbean Country, St. Kitts and Nevis. *Environmental Research Communication* 2(4).
216. Kinyoki DK, AE Osgood-Zimmerman, . . . **ML Bell**, . . . NJ Kassebaum, SI Hay (2020). Mapping child growth failure across low- and middle-income countries. *Nature* 577, p. 231-234.
215. Nori-Sarma, A, RK Thimmulappa, GV Venkataramana, AK Fauzie, SK Dey, LK Venkareddy, JD Berman, KJ Lane, KC Fong, JL Warren, **ML Bell** (2020). Low-cost NO₂ monitoring and predictions of urban exposure using universal Kriging and land-use regression modelling in Mysore, India. *Atmospheric Environment* 226(1), Art. 117395.
214. Fong KC, NK Mehta, **ML Bell** (2020). Disparities in exposure to surrounding greenness related to proportion of the population that were immigrants to the United States. *International Journal of Hygiene and Environmental Health* 224, Art. 113434.
213. Vicedo-Cabrera AM, F Sera, C Liu, B Armstrong, A Milojevic, Y Guo, S Tong, E Lavigne, J Kysely, A Urban, H Orru, E Indermitte, M Pascal, V Huber, A Schneider, K Katsouyanni, E Samoli, M Stafoggia, M Scortichini, M Hashizume, Y Honda, CFS Ng, M Hurtado-Diaz, J Cruz, S Silva, J Madureira, N Scovronick, RM Garland, H Kim, A Tobias, C Íñiguez, B Forsberg, C Åström, MS Ragettli, M Rössli, YL Guo, BY Chen, A Zanobetti, J Schwartz, **ML Bell**, H Kan, A Gasparrini (2020). Short-term association between ozone and mortality: A global study in 406 locations in 20 countries. *British Medical Journal* 368 doi: 10.1136/bmj.m108
212. Heo S, A Nori-Sarma, K Lee, T Benmarhnia, F Dominici, **ML Bell** (2019). The use of a quasi-experimental study on the mortality effect of a heat wave warning system in Korea. *International Journal of Environmental Research and Public Health* 16(12), 2245.
211. Kim Y, H Kim, . . . J Schwartz, **ML Bell**, M Hashizume (2019). Suicide and ambient temperature: A multi-country multi-city study. *Environmental Health Perspectives* 127(11), 117007.
210. Heo S, KC Fong, **ML Bell** (2019). Risk of particulate matter on birth outcomes in relation to maternal socio-economic factors: a systematic review. *Environmental Research Letters* 14, Art. 123004.
209. Burstein R, NJ Henry, . . . **ML Bell**, . . . CJL Murray, SI Hay (2019). Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. *Nature* 573, p. 353-358.
208. Armstrong B, F Sera, . . . **ML Bell**, . . . A Zeka, A Gasparrini (2019). The role of humidity in associations of high temperature with mortality: A multi-city multi-country study. *Environmental Health Perspectives* 127(9), 097007. Erratum *EHP* 127(10), p. 109001.
207. Benmarhnia T, L Schwarz, A Nori-Sarma, **M Bell** (2019). Quantifying the impact of changing the threshold of New York City Heat Emergency Plan in reducing heat-related illnesses. *Environmental Research Letters* 14(11), 114006.

206. Lee JY, H Kim, . . . **ML Bell**, . . . S Li, Y Guo (2019). Predicted temperature-increase-induced global health burden and its regional variability. *Environmental International* 131, 105027.
205. Lim CC, RB Hayes, J Ahn, Y Shao, DT Silverman, RR Jones, C Garcia, **ML Bell**, GD Thurston (2019). Long-term exposure to ozone and cause-specific mortality risk in the U.S. *American Journal of Respiratory and Critical Care Medicine* 200(5), p. 1022-1031.
204. Heo S, **ML Bell** (2019). Heat waves in South Korea: Differences of heat wave characteristics by thermal indices. *Journal of Exposure Science and Environmental Epidemiology* 29(6), p. 790-805.
203. Sera F, B Armstrong, . . . **ML Bell**, . . . A Zanobetti, A Gasparrini (2019). How urban characteristics affect vulnerability to heat and cold: a multi-country analysis. *International Journal of Epidemiology* 48(4), p. 1101-1112.
202. Jin L, JD Berman, JL Warren, JI Levy, G Thurston, Y Zhang, X Xu, S Wang, Y Zhang, **ML Bell** (2019). A land use regression model of nitrogen dioxide and fine particulate matter in a complex urban core in Lanzhou, China. *Environmental Research* 177, 108597.
201. Liu C, R Chen, . . . **ML Bell**, . . . A Gasparrini, H Kan (2019). Ambient particulate air pollution and daily mortality in 652 cities. *New England Journal of Medicine* 381(8), p. 705-715.
200. Son JY, J Liu, **ML Bell** (2019). Temperature-related mortality: A systematic review and investigation of effect modifiers. *Environmental Research Letters* 14: 073004.
199. Nori-Sarma A, T Benmarhnia, A Rajiva, GS Azhar, P Gupta, M Pednekar, **ML Bell** (2019). Advancing our understanding of heat wave criteria and associated health impacts to improve heat wave alerts in developing country settings. *International Journal of Environmental Research and Public Health* 16(12): E2089.
198. Yan M, A Wilson, **ML Bell**, RD Peng, Q Sun, W Pu, X Yin, GB Anderson (2019). The shape of the concentration-response association between fine particulate matter pollution and human mortality in Beijing, China, and its implications for health impact assessment. *Environmental Health Perspectives* 127(6): 67007.
197. Nori-Sarma, A, GB Anderson A Rajiva, G ShahAzhar, P Gupta, MS Pednekar, JY Son, RD Peng, **ML Bell** (2019). The impact of heat waves on mortality in Northwest India. *Environmental Research* 176: 108546. doi: 10.1016/j.envres.2019.108546
196. Heo S, A Nori-Sarma, K Lee, T Benmarhnia, F Dominici, **ML Bell** (2019). The use of a quasi-experimental study on the mortality effect of a heat wave warning system in South Korea. *International Journal of Environmental Research and Public Health* 16(12): 2245.
195. Jin L, JD Berman, Y Zhang, G Thurston, Y Zhang, **ML Bell** (2019). Land use regression study in Lanzhou, China: A pilot sampling and spatial characteristics of pilot sampling sites. *Atmospheric Environment* 210, p. 253-262.
194. Anderson GB, E Barnes, F Dominici, **ML Bell** (2019). The future of climate epidemiology: Opportunities for advancing health research in the context of climate change. *American Journal of Epidemiology* 188(5), p. 866-872.
193. Heo, S, **ML Bell** (2019). The influence of green space on the short-term effects of particulate matter on hospitalization in the U.S. for 2000-2013. *Environmental Research* 174, p. 61-68.
192. Berman JD, L Jin, **ML Bell**, FC Curriero (2019). Developing a geostatistical simulation method to inform the quantity and placement of new monitors for a follow-up air sampling campaign. *Journal of Exposure Science and Environmental Epidemiology* 29(2), p. 248-257.
191. Nam YH, WB Bilker, CE Leonard, **ML Bell**, LM Alexander, S Hennessy (2019). Effect of statins on the association between high temperature and all-cause mortality in a socioeconomically disadvantaged population: A cohort study. *Scientific Reports* 9(1), Article No. 4685.

190. Nam YH, WB Bilker, CE Leonard, **ML Bell**, S Hennessy (2019). Outdoor temperature and survival benefit of empiric potassium in users of furosemide in US Medicaid enrollees: a cohort study. *BMJ Open* 9(2):e023809, doi:10.1136/bmjopen-2018-023809.
189. Chen G, A Wang, S Li, X Zhao, Y Wang, H Li, X Meng, LD Knibbs, **ML Bell**, MJ Abramson, Y Wang, Y Guo (2019). Long-term exposure to air pollution and survival after ischaemic stroke: The China National Stroke Registry Cohort. *Stroke* 50(3), p. 563-570.
188. Heo S, **ML Bell**, JT Lee (2019). Comparison of health risks by heat wave definition: Applicability of wet-bulb globe temperature for heat wave criteria. *Environmental Research* 168, p. 158-170.
187. Son JY, JT Lee, KJ Lane, **ML Bell** (2019). Impacts of high temperature on adverse birth outcomes in Seoul, Korea: Disparities by individual- and community-level characteristics. *Environmental Research* 168, p. 460-466.
186. Global Burden of Disease Collaborators (2018). Global, regional, and national disability-adjusted life-years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 392(10159), p. 1859-1922.
185. Global Burden of Disease Collaborators (2018). Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 392(10159), p. 1789-1858.
184. Global Burden of Disease 2017 Mortality Collaborators (2018). Global, regional, and national age-sex-specific mortality and life expectancy, 1950-2017: a systematic analysis for the Global burden of Disease study 2017. *The Lancet* 392(10159), p. 1684-1735.
183. Global Burden of Disease 2017 Risk Factor Collaborators (2018). Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 392(10159), p. 1923-1994.
182. Global Burden of Disease Healthcare Access and Quality Collaborators (2018). Measuring performance on the Healthcare Access and Quality Index for 195 countries and territories and selected subnational locations: a systematic analysis from the Global Burden of Disease Study 2016. *The Lancet* 391 (10136), p. 2236-2271.
181. Global Burden of Disease Collaborators (2018). Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980-2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 392(20159), p. 1736-1788.
180. US Burden of Disease Collaborators. Mokdad AH, K Ballestros K, . . . **ML Bell**, . . . JB Jonas, CJL Murray (2018). The State of US Health, 1990-2016. Burden of Diseases, Injuries, and Risk Factors Among US States. *Journal of the American Medical Association (JAMA)* 319(14), p. 1444-1472.
179. Zhao N, J Qiu, S Ma, Y Zhang, X Lin, Z Tang, H Zhang, H Huang, N Ma, Y Huang, **ML Bell**, Q Liu, Y Zhang (2018). Effects of prenatal exposure to ambient air pollutant PM₁₀ on ultrasound-measured fetal growth. *International Journal of Epidemiology* 47(4), p. 1072-1081.
178. Global Burden of Disease Collaborators (2018). Population and fertility by age and sex for 195 countries and territories, 1950-2017: a systematic analysis for the Global Burden of Disease 2017. *The Lancet* 392(10159), p. 1995-2051.
177. Global Burden of Disease Collaborators (2018). Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 392(10159), p. 2091-2138.

176. Vicedo-Cabrera AM, Y Guo, . . . **ML Bell**, . . . KL Ebi, A Gasparrini (2018). Temperature-mortality impacts under and beyond Paris Agreement climate change scenarios. *Climatic Change* 150(3-4), p. 391-402.
175. Tang Z, H Zhang, . . . **ML Bell**, . . . Q Liu, Y Zhang (2018). Residential mobility during pregnancy in urban Gansu, China. *Health and Place* 53, p. 258-263.
174. Gong X, Y Lin, **ML Bell**, FB Zhan (2018). Associations between maternal residential proximity to air emissions from industrial facilities and low birth weight in Texas, USA. *Environment International* 120, p. 181-198.
173. Dong C, Q Yin, KJ Lane, Z Yan, T Shi, Y Liu, **ML Bell** (2018). Competition and transmission evolution of global food trade: A case study of wheat. *Physica A* 509, P. 998-1008.
172. Guo Y, A Gasparrini, . . . **ML Bell**, . . . KL Ebi, S Tong (2018). Quantifying excess deaths related to heatwaves under climate change scenarios: A multi-country time-series modelling study. *PLOS Medicine* 15(7), doi: 10.1371/journal.pmed.1002629.
171. Esty DC, **ML Bell** (2018). Business leadership in global change responses. *American Journal of Public Health* 108(S2), p. S80-S84.
170. Ferreri JM, RD Peng, **ML Bell**, L Ya, T Li GB Anderson (2018). The January 2013 Beijing “Airpocalypse” and its acute effects on emergency and outpatient visits at a Beijing hospital. *Air Quality, Atmosphere & Health* 11(3), p. 301-309.
169. Lee W, **ML Bell**, A Gasparrini, BG Armstrong, F Sera, S Hwang, E Lavigne, A Zanobetti, MSZS Coelho, PHN Saldiva, S Osorio, A Tobias, A Zeka, PG Goodman, B Forsberg, J Rocklöv, M Hashizume, Y Honda, YL Guo, X Seposo, D Van Dung, TN Dang, X Tong, Y Guo, H Kim (2018). Mortality burden of diurnal temperature range and its temporal changes: A multi-country study. *Environment International* 110, p. 123-130.
168. Kim SE, **ML Bell**, M Hashizume, Y Honda, H Kan, H Kim (2018). Associations between mortality and prolonged exposure to elevated particulate matter concentrations in East Asia. *Environment International* 110, p. 88-94.
167. Lee HJ, R Chatfield, **ML Bell** (2018). Spatial analysis of concentrations of multiple air pollutants using NASA aircraft measurements: Implications for exposure assessment. *Environmental Research* 160, p. 487-498.
166. Warren J, JY Son, BP Leaderer, **ML Bell** (2018). Investigating the impact of maternal residential mobility on identifying critical windows of susceptibility to ambient air pollution during pregnancy. *American Journal of Epidemiology* 187(5), p. 992-1000.
165. **Bell ML**, G Banerjee, G Pereira (2018). Residential mobility of pregnant women and implications for assessment of spatially-varying environmental exposures. *Journal of Exposure Science and Environmental Epidemiology* 28(5), p. 470-480.
164. Global Burden of Disease 2016 Sustainable Development Goals Collaborators (2017). Measuring progress and projecting attainment on the basis of past trends of the health-related Sustainable Development Goals in 188 countries: An analysis from the Global Burden of Disease Study 2016. *The Lancet* 390, p. 1423-1459.
163. Global Burden of Disease 2016 Risk Factors Collaborators (2017). Global, regional, and national comparative risk assessment of 84 behavioural, environmental, and occupational, and metabolic risks or clusters of risks, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *The Lancet* 390, p. 1345-1422.
162. Global Burden of Disease 2016 Mortality Collaborators (2017). Global, regional, and national under-5 mortality, adult mortality, age-specific mortality, and life expectancy, 1970-2016: A systematic analysis for the Global Burden of Disease Study 2016. *The Lancet* 390, p. 1084-1150.
161. Armstrong B, **ML Bell**, MSZS Coelho, YL Leon Guo, Y Guo, P Goodman, M Hashizume, Y Honda, H Kim, E Lavigne, P Michelozzi, PHN Saldiva, J Schwartz, M Scortichini, F Sera, A Tobias, S Tong, CF Wu, A Zanobetti, A Zeka, A Gasparrini (2017). Longer-term impact of

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- Bobb J, R Peng, **M Bell** F Dominici (2014). Letters: Heat waves and global warming death states. *Orange County Register*. May 16, 2014.
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- Bell ML**, K Ebisu, K Belanger (2008). Air pollution and birth weight: Bell et al. respond. *Environmental Health Perspectives* 116(3), p. A106-107.
- Bell ML**, T Holloway (2007). Editorial: Global impacts of particulate matter air pollution. *Environmental Research Letters* 2(4), Art. No. 045026.
- Dominici F, RD Peng, **ML Bell**, L Pham, A McDermott, SL Zeger, JM Samet (2006). Hospital admissions and fine particulate air pollution: In reply. *Journal of the American Medical Association* 296(16), p. 1966-1967.
- Samet JS, **ML Bell** (2004). Nitrogen dioxide and asthma in Australian schoolchildren. Invited commentary. *International Journal of Epidemiology* 33, p. 215-216.
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PEER-REVIEWED CONFERENCE PROCEEDINGS

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- Bell ML**, BF Hobbs, EM Elliott, H Ellis, Z Robinson (2000). An evaluation of multicriteria decision-making methods in integrated assessment of climate policy. In *Research and Practice in Multiple Criteria Decision Making: Lecture Notes in Economic and Mathematical Systems* 487, p. 228-237.

BOOK CHAPTERS

- Bell ML** (2019). Chap. 34. The Public Health Science of Environmental Justice. In *A Better Planet: Forty Big Ideas for a Sustainable Future*. DC Esty (Ed). Yale University Press: New Haven, CT.
- Warren JL, **ML Bell** (2019). Chap. 20. Alternative Models for Estimating Air Pollution Exposures – Land Use Regression and Stochastic Human Exposure and Dose Simulation for particulate matter (SHEDS-PM). In *Handbook of Environmental and Ecological Statistics*. AE Gelfand, M Fuentes, JA Hoeting, RL Smith (Eds). Chapman & Hall/CRC Handbooks of Modern Statistical Methods: Boca Raton, FL.
- Bell ML** (2018). Kuwait Oil Fires (1991): A Deliberate Environmental Disaster During Wartime. Chapter 8 in *Air Pollution Episodes*. P Brimblecombe (Eds). World Scientific: New Jersey.
- Gurung A, A Panday, **ML Bell** (2016). Air pollution and its health impacts in the increasingly urbanizing Kathmandu Valley of Nepal. Chap. 6 in *Reflections on the Built Environment and Associated Practices. Volume II (2016), Issues in Urban Development of the Kathmandu Valley*. Compiled by Neel Kamal Chapagain with editorial assistance from Subik Kumar Shrestha and Kishan Datta Bhatta. Published by Tribhuvan University.
- Thurston GD, **ML Bell** (2014). The Human Health Co-benefits of Air Quality Improvements Associated with Climate Change Mitigation. Chap. 8 in *Global Climate Change and Public Health*. KE Pinkerton, WN Rom (Eds). Humana Press: New York, NY.
- Thurston GD, **ML Bell** (2013). Aerosols, Global Climate, and the Human Health Co-Benefits of Climate Change Mitigation. Chap. 13 in *Aerosols Handbook: Measurement, Dosimetry, and Health Effects, Second Edition*. LS Ruzer, NH Harley (Eds). Taylor and Francis: Boca Rotan, FL.
- Cohan D, A Digar, **ML Bell** (2010). Influence of concentration-response temporal metrics on control strategy optimization. Section 4.18 of *Air Pollution Modeling and Its Application XX*, NATO Science for Peace and Security Series – C: Environmental Security. DG Steyn, ST Rao (Eds.). Springer Publishing, p. 421-425.
- Bell ML**, JM Samet (2005, 2009, third edition 2016). Air Pollution. Chap. 13 in *Environmental Health: From Local to Global*. H Frumkin (Ed.). John Wiley & Sons, Jossey-Bass: San Francisco, CA. Winner of the 2005 Award for Excellence in Professional and Scholarly Publishing, Allied/Health Sciences category, by the Association of American Publishers.
- Samet JM, **ML Bell** (2006). Air Pollution Epidemiology. In *Occupational and Environmental Medicine*. WN Rom (Ed.). Lippincott Williams & Wilkins: Philadelphia, PA.
- Anderson RM, BF Hobbs, **ML Bell** (2002). Multiobjective decision making in negotiation and conflict resolution. Chap. 6 of Topic 1.40.4, “Formal Models for Conflict Resolution”, KW Hipel (Ed.). In *The Encyclopedia of Life Support Systems (EOLSS)*.

SELECTED REPORTS

- Morgenstern RD, W Harrington, JS Shih, **ML Bell** (2012). *Accountability Analysis of Title IV Phase 2 of the 1990 Clean Air Act Amendments*. Health Effects Institute: Boston, MA. Research Report No. 168. (peer-reviewed).
- Bell ML** (2012). *Assessment of the Health Impacts of Particulate Matter Characteristics*. Health Effects Institute: Boston, MA. Research Report No. 161 (peer-reviewed).
- Adem A, **M Bell**, M Cozzens, C Dean, F Dominici, A Friedman, F Roberts, S Sain, AA Yakubu (2011). *Human Well-Being and the Natural Environment*. In Mathematical and Statistical Challenges for Sustainability, M Zoenens, FS Roberts (Eds). National Science Foundation, Center for Discrete Mathematics and Theoretical Computer Science (DIMACS): Piscataway, NJ.

National Research Council (2010). *Review of the Dept. of Defense Enhanced Particulate Matter Surveillance Program Report*. Committee for Review of the DOD's Enhanced Particulate Matter Surveillance Program Report, Board on Environmental Studies and Toxicology, Division on Earth and Life Studies. The National Academies Press: Washington, DC.

Cifuentes LA, H Jorquera, F Gaioli, M Conte-Grande, N Gouveia, D Davis, **M Bell** (2004). *Promoting Public Health Assessment in Energy and Environmental Planning*. Report to the InterAmerican Institute for Global Change Research.

PRESENTATIONS

INVITED PRESENTATIONS

Bell ML (2020). Northeastern University, Dept. of Civil and Environmental Engineering. Presented remotely.

Bell ML (scheduled – 2020). University of Alabama, School of Public Health. Birmingham, Alabama.

Bell ML (2020). International Society for Environmental Epidemiology (ISEE) Annual Conference. Presented remotely.

Bell ML (2020). Global Environmental Health Day, National Institutes for Environmental Health Studies. Presented remotely.

Bell ML (2020). Case Western Reserve University School of Law. Presented remotely.

Bell ML (2020). University of Illinois at Champaign.

Bell ML (2019). Royal Society, London UK.

Bell ML (2019). The Center for Urban and Regional Analysis (CURA) at The Ohio State University. Columbus, Ohio.

Bell ML (2019). International Society for Environmental Epidemiology (ISEE). Utrecht, Netherlands.

Bell ML (2019). Atmospheric Chemistry Gordon Research Conference. Newry, Maine.

Bell, ML (2019). New York University School of Medicine. New York, NY.

Bell ML (2019). Seoul National University, School of Public Health. Seoul, Korea.

Bell ML (2019). Global Research Laboratory (GRL) International Symposium. Seoul, Korea.

Bell ML (2019). Harold and Marilyn Menkes Memorial Lectureship. Johns Hopkins Bloomberg School of Public Health. Baltimore, Maryland.

Bell, M (2018). International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.

Liu JC, M Bell (2018). International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.

Bell ML (2018). Arizona State University Discovery Series. ASU Biodesign Institute. Tempe, Arizona.

Bell ML (2018). Japan Environment and Children's Study (JECS) Workshop. Ministry of the Environment, Government of Japan. Fukushima, Japan.

Bell ML (2018). International Symposium on Children's Environmental Health. Japanese National Institute for Environmental Studies. Tsukuba, Japan.

Bell ML (2018). International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.

Bell ML (2018). Annual International Symposium: Interdisciplinary Research for Societal Impact. Hong Kong Polytechnic University, Hong Kong.

Bell ML (2018). Forum for Strategic Impact for African Women Leaders. New Haven, CT.

Bell ML (2018). China Health Policy and Management Society 2nd Conference. New Haven, CT.

Bell ML (2018). Yale School of Public Health. New Haven, CT.

Bell ML (2017). Howard H. Baker Center for Public Policy. University of Tennessee – Knoxville. Knoxville, TN.

Bell ML (2016). Columbia University. Carnegie Mellon University. Pittsburgh, PA.

Bell ML (2016). Columbia University. Epidemiology Grand Rounds (CUEGR) 2016 Lecture Series. New York, NY.

Bell ML (2016). Washington University in St. Louis, School of Engineering & Applied Science. St. Louis, MO.

Bell ML (2016). Conference of the International Society of Environmental Epidemiology. Rome, Italy.

Bell ML (2016). Statistical Methods and Analysis of Environmental Health Data Workshop. SAMSI. Mumbai, India.

Bell ML (2016). North Carolina State University, Department of Marine, Ecological, and Atmospheric Sciences. Raleigh, NC.

Bell ML (2016). Invited keynote. North Carolina State University Global Partnership Network (UGPN) Workshop on Air Quality, Climate, and Health. Raleigh, NC.

Bell ML (2016). International Symposium on Health Risk Assessment of Climate Change and Air Pollution. Global Research Laboratory and Seoul National University, Graduate School of Public Health. Seoul, Korea.

Bell ML (2015). 22nd International Conference on Aerosol Science and Technology. Taiwan.

Bell ML (2015). Harvard University, Biostatistics Environmental Working Group, Boston, MA.

Bell ML (2015). Harvard University, Centennial Women Leaders in Public Health Lecture, Boston, MA.

Bell ML (2015). Keynote speaker. North Carolina Clean Air Conference. Raleigh, NC.

Bell ML (2014). The John C. and Susan S. G. Wierman Lecture in Air Quality Data Analysis. Johns Hopkins University, Dept. of Applied Mathematics and Statistics, Baltimore, MD.

Bell ML (2014). Modeling the Health Risks of Climate Change Workshop. National Academies. Washington, DC.

Bell ML (2014). Workshop on State-of-the-Science Spatiotemporal Characterization of Ambient Air Pollution. Atlanta, GA.

Bell ML (2014). Harvard University School of Public Health, Dept. of Biostatistics. Boston, MA.

Bell ML (2014). Yale Young Global Scholars Program. New Haven, CT.

Bell ML (2014). Mini Symposium on Spatial and Environmental Studies. Yale University, New Haven, CT.

Bell ML (2014). Geophysical Fluids Dynamics Laboratory. Princeton, NJ.

Bell ML (2014). University of New Haven, College of Engineering. New Haven, CT.

Bell ML (2013). Icahn School of Medicine at Mount Sinai. Child Health Research Seminar. New York, NY.

Bell ML (2013). Johns Hopkins Bloomberg School of Public Health, Environmental Health Sciences Grand Rounds. Baltimore, MD.

Bell ML (2013). International Symposium on Health Risk Assessment of Climate Change and Air Pollution. Global Research Laboratory (GRL) and Seoul National University, Graduate School of Public Health. Seoul, Korea.

Bell ML (2013). Fiocruz. São Paulo, Brazil.

Bell ML (2013). Ozone Transport Commission. New Haven, CT.

Bell ML (2013). University of Washington, School of Public Health. Seattle, WA.

Bell ML (2013). Columbia University, Mailman School of Public Health. New York, NY.

Bell ML (2013). Northeast Climate Consortium and University of Massachusetts at Amherst School of Public Affairs. Amherst, MA.

Bell ML (2013). Annual Meeting for Society of Toxicology. San Antonio, TX.

Bell ML (2013). Harvard University, School of Public Health. Boston, MA.

Bell ML (2012). Conference of the International Society for Environmental Epidemiology (ISEE). Columbia, SC.

Bell ML (2012). International Conference on Environmental Health. Korean Society of Environmental Health, Korean Society of Toxicology. Seoul, Korea.

Bell ML (2012). Johns Hopkins University, Environment, Energy, Sustainability, and Health Institute. Baltimore, MD.

Bell ML (2012). University of Pittsburgh, School of Public Health, Dept. of Epidemiology. Pittsburgh, PA.

Bell ML, RD Peng, F Dominici (2012). American Association of Geographers Conference. New York, NY.

Bell ML (2011). Yale University, School of Public Health, Environmental Health Sciences Division. New Haven, CT.

Bell ML (2011). Atmospheric Chemistry and Health: Current Knowledge and Future Directions Workshop. Boston, MA.

Anderson GB, ML Bell (2011). Methods for investigating associations of weather and climate with health - workshop. Barcelona, Spain.

Bell ML (2011). University of Pittsburgh, School of Public Health, Dept. of Environmental and Occupational Health. Pittsburgh, PA.

Bell ML (2010). University of Wisconsin, Nelson Institute for Environmental Studies and the Dept. of Civil and Environmental Engineering. Madison, WI.

Bell ML (2010). Air Pollution and Health: Bridging the Gap from Sources to Health Outcomes. Conference of the American Association of Aerosol Research. San Diego, CA.

Bell ML (2010). University of Connecticut, Environmental Engineering Program. Storrs, CT.

Bell ML (2010). University of New Haven, College of Engineering. New Haven, CT.

Bell ML (2009). New York University, School of Medicine. New York, NY.

Bell ML (2009). Johns Hopkins Bloomberg School of Public Health, Risk Sciences and Public Policy Institute. Baltimore, MD.

Bell ML (2009). Statistical and Applied Mathematical Sciences Institute. Program on Space-time Analysis for Environmental Mapping, Epidemiology and Climate Change. Research Triangle Park, NC.

Bell ML (2009). Uncertainty Analyses in Integrated Air Quality Planning Workshop. Atlanta, GA.

Bell ML (2009). [2 presentations]. Joint Statistical Meetings. Washington, DC.

Bell ML (2009). Poster presentation at U.S. EPA Board of Scientific Counselors (BOSC) meeting. Research Triangle Park, NC.

Bell ML (2009). North Carolina State University, Dept. of Statistics, Raleigh, NC.

Bell ML (2008). U.S. EPA Particulate Matter Center Directors' Meeting. Rochester, NY.

Bell ML (2008). Teleconference presentation to U.S. EPA, Research Triangle Park, NC.

Bell ML (2008). University of Georgia, College of Public Health. Athens, GA.

Bell ML (2008). Yale Risk Assessment Forum. New Haven, CT.

Bell ML (2008). Joint Statistical Meetings. Denver, CO.

Bell ML (2008). Rice University, Dept. of Civil and Environmental Engineering. Houston, TX.

Bell ML (2008). Duke University, Integrated Toxicology and Environmental Health Program. Durham, NC.

Bell ML (2008). Uncertainty Analyses in Integrated Air Quality Planning Workshop. Atlanta, GA.

Bell ML (2007). Testimony to the U.S. Senate Committee on Environment and Public Works, Subcommittee on Clean Air and Nuclear Safety on Mortality Effects of Ozone. Washington, DC.

Bell ML (2007). Wesleyan University, Dept. of Earth and Environmental Sciences. Middletown, CT.

Bell ML (2007). Ozone Transport Commission Annual Meeting. Providence, RI.

Bell ML (2007). Yale School of Medicine, Dept. of Occupational and Environmental Medicine. New Haven, CT.

Bell ML (2007). The National Academies, Board on Environmental Studies and Toxicology. Presentation to the NRC's Committee on Estimating Mortality Risk Reduction Benefits from Decreasing Tropospheric Ozone Exposure. Washington, DC.

- Bell ML (2007). Princeton University. Program in Science, Technology, and Environmental Policy. Princeton, NJ.
- Bell ML (2007). Presentation and panel discussion. New York University, Program in Global Public Health and NYU Center of Global Affairs. New York, NY.
- Bell ML (2006). Columbia University. New York, NY.
- Bell ML (2006). Air Quality Data in Health Effects Research. Health Effects Institute. Newton, MA.
- Bell ML (2006). Air and Waste Management Association Annual Conference. New Orleans, LA.
- Bell ML, DL Davis (2006). Options for Energy Production from Non-Carbon-Emitting Sources, a Symposium. University of Wisconsin. Madison, WI.
- Bell ML (2006). Health Effects Institute Annual Conference. San Francisco, CA.
- Bell ML (2006). University of New Hampshire, Dept. of Earth Sciences. Durham, NH.
- Bell ML (2006). Johns Hopkins University, Dept. of Geography and Environmental Engineering. Baltimore, MD.
- Bell ML (2005). University of Connecticut, Environmental Engineering Program. Storrs, CT.
- Bell ML (2005). Columbia University, Mailman School of Public Health. New York, NY.
- Bell ML (2005). Connecticut Dept. of Environmental Protection. Hartford, CT.
- Bell ML (2005). Yale Institute for Biospheric Studies. New Haven, CT.
- Bell ML (2004). The Inaugural Meeting of the Connecticut Science Center Collaborative. Peabody Museum. New Haven, CT.
- Bell ML (2004). Promoting Public Health Assessment in Energy and Environmental Planning Workshop: Key Issues in Air Pollution Science and Policy for Developing Countries. University of São Paulo School of Medicine. São Paulo, Brazil.
- Bell ML, Q Tong (2004). National Center for Atmospheric Research (NCAR) Summer Colloquium on Climate and Health. NCAR. Boulder, CO.
- Davis D, ML Bell (2002). The Big Smoke: Fifty Years After the 1952 London Smog, Commemorative Conference. London, England.
- Bell ML (2002). International Air Pollution and Energy/Climate Policy Collaboration Workshop. Vancouver, Canada.
- Bell ML (1996). Center for Global Environmental Studies, Oak Ridge National Laboratory. Oak Ridge. TN.

OTHER PRESENTATIONS (presenter underlined)

- Chan A, M Bell (2019). *Associations of Green Infrastructure Density and Socio-Demographics in Cities with a Green Stormwater Infrastructure Installation Program*. Fifteenth International Conference on Environmental, Cultural, Economic, and Social Sustainability. Vancouver, Canada.
- K Burrows, J Son, M Bell (2018). Patterns of Environmental Displacement in Indonesia. Poster presentation. International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.
- Chen C, F Dominici, R Peng, Y Wang, J Bobb, M Bell (2018). *Exploration on Explanations for Observed Long-Term Temporal Trend of the Short-Term Association between Fine Particulate Matter Concentration and Hospital Admissions in the U.S.* International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.
- Berman, JD, L Jin, M Bell, F Curriero (2018). *Using Geostatistical Simulation to Inform the Quantity and Placement of New Monitors for a Follow-Up Air Sampling Campaign*. International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.
- Heo, S, M Bell (2018). *The Effect of Particulate Air Pollution on Hospitalization and Effect Modification by Green Space*. International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.

- Jin, L, Q Liu, Y Zhang, J Qu, Y Zhang, M Bell (2018). *Spatiotemporal Variations of Maternal Exposures to Air Pollution and Risks of Adverse Birth Outcomes in Lanzhou, China*. International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.
- Whittaker, S, M Bell, N Deziel, Y Zhang (2018). *Air Pollution and Infectious Disease Burdens on Lung Function in the Eastern Caribbean*. International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.
- Nori-Sarma, A, T Benmarhnia, P Gupta, M Pednekar, M Bell (2018). *Effect Modification of Heat Wave Characteristics and Influence on Variability in Mortality in Northwestern India*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.
- Wolf, KR, M Bell (2018). *Racial Residential Segregation and Airborne Fine Particulate Matter Components in the United States*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.
- Son, J, JT Lee, K Lane, M Bell (2018). *Impacts of High Temperature on Adverse Birth Outcomes in Seoul, Korea: Disparities by Individual- and Community-Level Characteristics*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Ottawa, Canada.
- Jin L, Y Zhang, Y Zhang, ML Bell (2017). *Intraurban Distributions of NO₂ and PM_{2.5} at Three Dimensions in Lanzhou, China*. International Society for Environmental Epidemiology (ISEE). Sydney, Australia.
- Jabos M, G Zhang, S Chen, B Mullins, M Bell, L Jin, Y Guo, R Huxley, G Pereira (2017). *Air Pollution and Birth Outcomes in China – A Synthesis of Chinese and English Language Research*. International Society for Environmental Epidemiology (ISEE). Sydney, Australia.
- Jin L, J Reuning-Scherer, J Qiu, Q Liu, Y Zhang, M Bell (2017). *Spatial Point Pattern Analysis of Congenital Heart Defects in Lanzhou, China*. International Society for Environmental Epidemiology (ISEE). Sydney, Australia.
- Heo S, ML Bell (2017). *Comparison of Health Risks by Heatwave definitions: Applicability of Thermal Comfort Index for Heatwave Criteria*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Sydney, Australia.
- Venkatareddy VG, AK Fauzie, RK Thimulappa, AA Nori-Sarma, ML Bell (2017). *Characterization of Particulate Matter in Urban Traffic Roads and Health Effects on the Pulmonary System in Mice with Lung Inflammation*. Poster presentation. International Society for Exposure Science (ISES). Research Triangle Park, NC
- Nori-Sarma AA, RK Thimulappa, VG Venkatareddy, AK Fauzie, SK Dey, ML Bell (2017). *NO₂ Air Pollution Exposure Assessment in Urban Mysore*. Poster presentation (also presented as oral presentation). International Society for Exposure Science (ISES). Research Triangle Park, NC.
- Wolf KR, ML Bell (2017). *Racial Residential Segregation and Fine Particulate Matter Component Levels in the United States*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Sydney, Australia.
- Nori-Sarma AA, RK Thimulappa, VG Venkatareddy, AK Fauzie, SK Dey, ML Bell (2017). *NO₂ Air Pollution Exposure Assessment in Urban Mysore*. Oral presentation (also presented in poster form). International Society for Exposure Science (ISES). Research Triangle Park, NC.
- Whittaker SD, ML Bell (2017). *Ambient Air Pollution per Land Use in the Astern Caribbean*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Sydney, Australia.
- Chen C, J Warrington, F Dominici, RD Peng, DC Esty, ML Bell (2017). *Long-term Temporal Trend of the Short-term Association between Fine Particulate Matter Concentration and Hospital Admissions in the U.S. – Research in Progress*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Sydney, Australia.
- Son JY, HJ Lee, P Koutrakis, ML Bell (2017). *Pregnancy and Life-time Exposure to Fine Particulate Matter (PM_{2.5}) and Infant Mortality in Massachusetts, 2001-2007*. Poster

- presentation. International Society for Environmental Epidemiology (ISEE). Sydney, Australia.
- Woo, SYL, JC Liu, X Yue, ML Bell (2016). *Air Pollution from Wildfires and Human Health Impacts in Alaskan Communities*. 2nd International Smoke Symposium. Long Beach, California.
- Son JY, KJ Lane, JT Lee, ML Bell (2016). *Urban Vegetation and Heat-Related Mortality in Seoul, Korea*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Pereira G, MB Bracken, ML Bell (2016). *Does Residential Mobility in Pregnancy Influence Estimated Effects of Particulate Matter on Adverse Birth Outcomes?* Poster presentation. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Liu C, L Mickley, MP Sulprizio, X Yue, F Dominici, M Bell (2016). *Future Health Burden due to Wildfire Smoke under Climate Change in the Western US*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Norma Sarma A, GV Venkataramana, RK Thimulappa, M Bell (2016). *Measurements of Air Pollution in Urban Mysore and Chennai, India*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Pereira G, MB Bracken, ML Bell (2016). *Preterm Birth and Fine Particulate Matter: Replication of a New Longitudinal Design in Connecticut, New York, and Western Australia*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Whittaker S, M Bell (2016). *Air Pollution per Land Use in the Eastern Caribbean*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Lane K, K Balakrishnan, D Brugge, M Bell, M Brauer, S Ghosh, S Sambandam, S Thanikachalam, J Durant, M Thanikachalam (2016). *Association between Modelled Estimates of Ambient PM_{2.5} Concentrations and Biomarkers of Early Vascular Aging in the PURSE-HIS Cohort, Tamil Nadu, India*. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Lane KJ, EC Stokes, M Thanikachalam, KC Seto, S Thanikachalam, ML Bell (2016). *Association between Urbanicity and Biomarkers of Early Vascular Aging in a Cohort of Adults in Chennai, India*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Kim SE, H Kim, M Bell, M Hashizume, Y Honda, H Kan (2016). *Associating Respiratory Mortality with Prolonged High PM₁₀ Events in Northeast Asia*. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Guo Y, A Gasparrini, B Armstrong, B Tawatsupa, A Tobias, E Lavigne, M Coelho, X Pan, H Kim, M Hashizume, Y Honda, YLL Guo, CF Wu, A Zanobetti, JD Schwartz, ML Bell, AV Overcenco, K Punnasiri, S Li, L Tian, P Saldiva, G Williams, S Tong (2016). *The Association between Temperature Variability and Mortality: An International Collaborative Study*. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Jin L, J Berman, K Huang, Y Zhang, ML Bell (2016). *Monitoring Network Design for a Land Use Regression Study in Lanzhou, China*. International Society for Environmental Epidemiology (ISEE). Rome, Italy.
- Gurung A, JI Levy ML Bell (2016). *Modeling the Intraurban Variation in Nitrogen Dioxide in Urban Urban Areas in Kathmandu Valley, Nepal*. International Society for Exposure Science (ISES). Utrecht, The Netherlands.
- Ferreri JM, RD Peng, ML Bell, L Ya, T Li, GB Anderson (2016). *Retrospective Analysis of the Health Effects of the January 2013 Beijing Fog*. Epidemiology Congress of the Americas. Miami, Florida.
- Lane K, ML Bell, K Balakrishnan, M Brauer, EK Stokes, J Durant, D Brugge, K Seto, S Thanikachalam, M Thanikachalam (2016). *Associations between Land Cover, PM_{2.5} and*

- Urbanicity with Early Vascular Aging in the PURSE-HIS Cohort*. Statistical Methods and Analysis of Environmental Health Data Workshop. SAMSI. Mumbai, India.
- Nori-Sarma A, GB Anderson, A Rajiva, G Shah-Azhar, RD Peng, ML Bell (2016). *Heat Waves and Mortality – a Preliminary Examination of the Impacts of Extreme Heat on Health in Northwestern India using Generalized Linear Models (GLM)*. Poster presentation. Statistical Methods and Analysis of Environmental Health Data Workshop. SAMSI. Mumbai, India.
- Woo SYL, JC Liu, X Yue, ML Bell. (2016). *Wildfires and Human Health in Alaska*. Alaska Forum on the Environment. Anchorage, AK.
- Bravo MA, R Anthopolos, M Bell, ML Miranda (2015). *Estimating Exposures to Airborne Particulate Matter and Ozone in Understudied US Populations: Environmental Justice Applications of Downscaled Numerical Model Output*. American Public Health Association. Chicago, IL.
- Berman JD, K Ebisu, F Dominici, RD Peng, Y Wang, ML Bell (2015). *The Association between Drought Events, Emergency Room Hospitalizations, and Total Mortality in the western United States Medicare Population, 2000-2013*. International Society of Exposure Science (ISES). October 2015. Epidemiologic Investigations - II.
- Son JY, N Gouveia, MA Bravo, C De Freitas, ML Bell (2015). *The Impact of Temperature on Mortality in a Subtropical City: Effects of Cold, Heat, and Heat Waves in Sao Paulo, Brazil*. Poster presentation. 27th International Society of Environmental Epidemiology (ISEE) Conference, São Paulo, Brazil.
- Lane KJ, M Bell (2015). *Effect of Land-Based Mitigation Strategies on Urban Heat Island and Health*. 27th International Society of Environmental Epidemiology (ISEE) Conference, São Paulo, Brazil.
- Nori-Sarma A, M Bell (2015). *Heat Waves and Mortality: An Examination of the Impacts of Extreme Heat on Health in NW India*. 27th International Society of Environmental Epidemiology (ISEE) Conference, São Paulo, Brazil.
- Liu, JC, A Wilson, LJ Mickley, F Dominici, MP Sulprizio, X Yue, K Ebisu, GB Anderson, ML Bell. (2015). *Health Effect of Wildfire-specific PM_{2.5} in the Western US*. 27th International Society of Environmental Epidemiology (ISEE) Conference, São Paulo, Brazil.
- Jin L, Q Liu, J Qiu, Y Zhang, W Qiu, Y Wang, Q Sun, N Zhao, H Cui, L Lv, R Xu, X Xu, Y Dang, X Han, H Zhang, H Bai, N Zhao, H Huang, ML Bell, Y Zhang (2015). *Residential Exposure to Traffic Pollution and Congenital Heart Defects, Preterm Births, and Low Birth Weight in Lanzhou, China*. Poster presentation. 27th International Society of Environmental Epidemiology (ISEE) Conference, São Paulo, Brazil.
- Jin L, L Cui, G Conway, J Zhou, J Zhang, M Bell (2015). *Increased Medical Emergency Calls During a Severe Air Pollution Episode in 2013 in Jinan, China*. Poster presentation. 27th International Society of Environmental Epidemiology (ISEE) Conference, São Paulo, Brazil
- Gurung A, ML Bell (2015). *Susceptibility to Particulate Matter Effects on Hospital Admission for a Rapidly Urbanizing Region in Nepal*. Poster presentation. 27th International Society of Environmental Epidemiology (ISEE) Conference, São Paulo, Brazil
- Panday A, BB Pradhan, A Gurung (2015). *Mitigating Black Carbon and Other Pollutants from Brick Kiln Production*. Urban Health Initiative Expert Workshop. Department of Public Health, Environmental, and Social Determinants of Health, World Health Organization and Climate and Clean Air Coalition. Morges, Switzerland.
- Pereira GF, et al. (2014). *Sources of Fine Particulate Matter and Risk of Preterm Birth in Connecticut 2000-2006: A Longitudinal Study*. 20th World Congress of Epidemiology. Anchorage, Alaska.
- Bravo M, K Ebisu, Y Wang, F Dominici, R Peng, M Bell (2015). *PM_{2.5} and Hospital Admissions, Effects by Urbanicity and Short-term Cumulative Exposures: Analysis Using Ambient*

- Monitoring Data and Regional Air Quality Modeling*. International Society for Environmental Epidemiology (ISEE). Seattle, WA.
- Jin L, M Bell, Q Liu, Y Zhang, J Qiu, N Zhao, X He, M Zhou, H Cui, L Lv, W Qiu, Y Zhang (2014). *Cohort Analysis of Congenital Heart Defects and Air Pollution in Lanzhou, China*. International Society for Environmental Epidemiology (ISEE). Seattle, WA.
- Gasparrini A, M Leone, Y Guo, E Lavigne, A Zanobetti, J Schwartz, A Tobias, S Tong, M Bell, YL Guo, CF Wu, H Kan, SM Yi, M Hashizume, Y Honda, H Kim, B Armstrong (2014). *Quantification of Temperature-Related Mortality: a Multi-Country Study*. International Society for Environmental Epidemiology (ISEE). Seattle, WA.
- Pappin A, M Bell, A Hakami (2014). *NO_x Control for Reducing Ozone Health Effects in a Changing World*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Seattle, WA.
- Ebisu K, T Holford, ML Bell (2014). *Land-use Effects on Adverse Birth Outcomes*. Joint Statistical Meetings (JSM). Boston, MA
- Hashizume M, Y Nishiwaki, H Kim, H Kan, YLL Guo, CF Wu, K Ueda, Y Honda, M Bell (2014). *Health Effects of Asian Dust: a Systematic Review*. International Society for Environmental Epidemiology (ISEE). Seattle, WA.
- Nori-Sarma A, Gurung A, ML Bell (2014). *Opportunities and Challenges in Public Health Data Collection in Southern Asia: Examples from Western India and Kathmandu Valley, Nepal*. Poster presentation. International Society for Environmental Epidemiology (ISEE). Seattle, WA.
- Liu J, F Dominici, LJ Mickley, MP Sulprizio, X Yue, ML Bell (2014). *GEOS-Chem Data Visualization and Application in Epidemiology: Mapping Wildfire-Emitted PM_{2.5} Levels in the Western US*. International Society for Environmental Epidemiology (ISEE). Seattle, WA.
- Son J, M Bell, JT Lee (2014). *The Impact of Heat, Cold, and Heat Waves on Hospital Admissions in 8 Cities in Korea*. International Society for Environmental Epidemiology (ISEE). Seattle, WA.
- Hyder A, J Ahern, K Belanger, ML Bell (2013). *Extending a Population Health Model to Integrate the Role of Scale and Vulnerability in Environmental Health Disparities Research: Application to Birth Outcomes in Connecticut*. Poster presentation. Healthier Cities and Communities Symposium. University of Toronto, Canada.
- Bell ML, A Zanobetti, F Dominici (2013). *Evidence on Vulnerability and Susceptibility to Health Effects Associated with Short-Term Exposure to Particulate Matter: Systematic Review and Meta Analysis*. Conference of the International Society for Environmental Epidemiology. Basel, Switzerland.
- Gurung A, ML Bell (2013). *Air Pollution Exposure and Human Health Burden in Nepal*. The 1st international joint symposium for ABC (Atmospheric Brown Cloud), SLCP (Short-Lived Climate Pollutant) and CCAC (Climate and Clean Air Coalition). Seoul National University, Seoul, South Korea.
- Son JY, ML Bell (2013). *The Relationships between Short-term Exposure to Particulate Matter and Mortality in Korea: Impact of Particulate Matter Exposure Metrics for Sub-daily Exposures*. Conference of the International Society for Environmental Epidemiology. Basel, Switzerland.
- Bravo M, M Fuentes, Y Zhang, M Burr, M Bell (2013). *Comparison of Exposure Estimation Methods for Air Pollutants: Ambient Monitoring Data and Regional Air Quality Simulation*. Society for Epidemiologic Research, Boston, MA.
- Anderson GB, ML Bell, RD Peng (2013). *Methods to Calculate the Heat Index as an Exposure Metric in Environmental Health Research*. Conference of the International Society for Environmental Epidemiology. Basel, Switzerland.

- Anderson GB, F Dominici, Y Wang, MC McCormack, ML Bell, RD Peng (2013). *Heat-related Emergency Hospitalizations for Respiratory Diseases in the Medicare Population*. Conference of the International Society for Environmental Epidemiology. Basel, Switzerland.
- Liu J, SA Uhl, M Bravo, ML Bell (2013). *Wildfire Smoke and Community Health: A Literature Review*. Conference of the International Society for Environmental Epidemiology. Basel, Switzerland.
- Bravo M, S Napelenok, M Bell (2013). *Comparison of Exposure Estimation Methods for Air Pollutants*. Conference of the International Society for Environmental Epidemiology. Basel, Switzerland.
- Hyder A, J Ahern, K Belanger, ML Bell (2013). *Extending a Population Health Model to Integrate the Role of Scale and Vulnerability in Environmental Health Disparities Research: Application to Birth Outcomes in Connecticut*. Poster presentation. Society for Epidemiologic Research, Boston, MA.
- Hyder A, HJ Lee, K Ebisu, P Koutrakis, K Belanger, ML Bell (2013). *Using Satellite- and Monitor-Based Data to Assess the Relationship between PM_{2.5} Exposure and Birth Outcomes in Connecticut and Massachusetts (2000-2006)*. Poster presentation. Society for Epidemiologic Research, Boston, MA.
- Pereira G, K Belanger, K Ebisu, M Bell (2013). *PM_{2.5} and Preterm Birth – A Longitudinal Study*. Poster presentation. Society for Epidemiologic Research, Boston, MA.
- Bravo M, M Fuentes, Y Zhang, M Burr, M Bell (2013). *Comparison of Exposure Estimation Methods for Air Pollutants: Ambient Monitoring Data and Regional Air Quality Simulation*. Poster presentation. Society for Epidemiologic Research, Boston, MA.
- Ebisu K, K Belanger, ML Bell (2013). *Is the Association Between Air Pollutants and Birth Weight Consistent with Using Different Buffer Sizes?* Poster presentation. Society for Epidemiologic Research, Boston, MA.
- Ebisu K, K Belanger, ML Bell (2013) *The Association Between Air Pollutants and Birth Weight Using Various Buffer Sizes*. Joint Statistical Meetings. Montreal, Canada.
- Bell ML, K Ebisu (2013). *Environmental Inequality to Exposure to Airborne Particulate Matter Components in the United States*. Environmental Health 2013. Boston, MA.
- Anderson GW, ML Bell (2012). *The Mortality of a Major Power Outage: Case Study of the 2003 Blackout in New York, New York, USA*. Society of Risk Analysis. San Francisco, CA.
- Dadvand P, J Parker, ML Bell, M Bonzini, M Brauer, L Darrow, U Gehring, SV Glinianaia, N Gouveia, E Ha, JH Leem, EH van den Hooven, B Jalaludin, BM Jesdale, J Lepeule, R Morello-Frosch, GG Morgan, AC Pesatori, FH Pierik, T Pless-Mulloli, DQ Rich, S Sathyanarayana, J Seo, R Slama, M Strickland, L Tamburic, D Wartenberg, M Nieuwenhuijsen, TJ Woodruff (2012). *Maternal Exposure to Particulate Air Pollution and Fetal Growth: A Multi-Country Evaluation of Effect and Heterogeneity*. Conference of the International Society for Environmental Epidemiology. Columbia, SC.
- Hyder A, K Ebisu, HJ Lee, P Koutrakis, ML Bell, K Belanger (2012). *Does the Data Source of Exposure Assessment (Land-based Monitors vs Satellite) Modify the Effect of PM_{2.5} Exposure on Birth Outcomes*. Conference of the International Society for Environmental Epidemiology. Columbia, SC.
- Gurung A, ML Bell (2012). *Exposure to Airborne Particulate Matter, Kathmandu Valley, Nepal*. Poster presentation. Conference of the International Society for Environmental Epidemiology. Columbia, SC.
- Krall J, GB Anderson, F Dominici, M Bell, R Peng (2012). *Mortality Effects of Particulate Matter Constituents in a National Study of US Urban Communities*. Poster presentation. Conference of the International Society for Environmental Epidemiology. Columbia, SC.
- Anderson GB, JR Krall, RD Peng, ML Bell (2012). *Is the Ozone-mortality Relationship Confounded by Chemical Components of Particulate Matter? Analysis of 7 Components in 57 US Communities*. Conference of the International Society for Environmental Epidemiology.

- Columbia, SC.
- Ebisu K, ML Bell (2012). *Birth Weight Effects of Air Pollutants in the Northeastern and Mid-Atlantic U.S.* Conference of the International Society for Environmental Epidemiology. Columbia, SC.
- Bravo MA, ML Bell (2012). *Spatial Heterogeneity of PM₁₀ and Ozone in São Paulo, Brazil and Implications for Human Health Studies.* Poster presentation. Conference of the International Society for Environmental Epidemiology. Columbia, SC.
- Son JY, JT Lee, GB Anderson, ML Bell (2012). *The Impact of Heat Waves on Mortality in 7 Major Cities in Korea.* Conference of the International Society for Environmental Epidemiology. Columbia, SC.
- Son JY, JY Lee, KY Kim, K Jung, ML Bell (2012). *Characterization of Fine Particulate Matter and Associations between Particulate Chemical Constituents and Mortality in Seoul, Korea.* Conference of the International Society for Environmental Epidemiology. Columbia, SC.
- Ebisu K, ML Bell (2012). *Association between Airborne PM_{2.5} Chemical Components and Birth Weight.* Society for Epidemiological Research Annual Meeting. Minneapolis, MN.
- Uhl SA, T James-Todd, ML Bell (2012). *Association of Osteoarthritis with Perfluorooctanoate and Perfluorooctane Sulfonate in NHANES 2003 – 2008.* Environmental Endocrine Disruptors Gordon Research Conference, West Dover, VT.
- Bell ML, K Ebisu, RD Peng (2012). *Community-Level Spatial Variation in the Chemical Composition of Airborne Particles and Implications for Studies of Human Health.* American Thoracic Society International Conference. San Francisco, CA.
- Anderson GB, ML Bell (2012). *The Mortality of a Major Power Outage: Case Study of the 2003 Blackout in New York, New York, USA.* American Thoracic Society International Conference. San Francisco, CA.
- Son JY, JT Lee, GB Anderson, ML Bell (2012). *The Impact of Heat Waves on Mortality in 7 Major Cities in Korea.* American Association of Geographers Conference. New York, NY.
- Anderson GB, ML Bell (2012). *Mortality Risk During Heatwaves and Effect Modification by Heatwave Characteristics in 43 US Communities.* American Association of Geographers Conference. New York, NY.
- Anderson GB, ML Bell (2011). *Human Mortality During Extreme Environmental Events: Studies of Heat Waves and of the 2003 Black Out.* Columbia University, School of Public Health. New York, NY.
- Peng RD, JF Bobb, C Tebaldi, L McDaniel, ML Bell, F Dominici (2011). *Towards a Quantitative Estimate of Future Heat Wave Mortality under Global Climate Change.* 21st Annual Conference of the International Society for Exposure Science. Baltimore, MD.
- Lee HJ, A Chudnovsky, B Coull, Y Liu, ML Bell, P Koutrakis (2011). *Satellite-based PM_{2.5} Exposure Assessment and its Implications for Epidemiological Studies.* 21st Annual Conference of the International Society for Exposure Science. Baltimore, MD.
- Geer LA, J Weedon, ML Bell (2011). *Gestational Air Pollutant Exposure and Birth Weight in Texas from 1998-2004.* Poster presentation. 21st Annual Conference of the International Society for Exposure Science. Baltimore, MD.
- Son JY, JT Lee, GB Anderson, ML Bell (2011). *The Impact of Heat Waves on Mortality in 7 Major Cities in Korea.* Poster presentation. 21st Annual Conference of the International Society for Exposure Science. Baltimore, MD.
- Dominici F, JF Bobb, RD Peng, ML Bell, C Tebaldi, L McDaniel (2011). *Assessing Sources of Variation in Estimates of Heat Wave Health Effects Under Global Climate Change.* Methods for investigating associations of weather and climate with health - workshop. Barcelona, Spain.
- Koutrakis P, A Chudnovsky, HJ Lee, CH Tang, J Schwartz, E Kloog, B Coull, ML Bell (2011). *Temporal and Spatial Variability of Ambient PM_{2.5} as it Relates to Epidemiological and Risk*

- Studies*. 23rd Conference of the International Society for Environmental Epidemiology. Barcelona, Spain.
- Bravo MA, M Fuentes, Y Zhang, M Burr, ML Bell (2011). *Comparison of Exposure Estimation Methods for Air Pollutants: Ambient Monitoring Data and Regional Air Quality Modeling*. Poster presentation. 23rd Conference of the International Society for Environmental Epidemiology. Barcelona, Spain.
- Son JY, JT Lee, GB Anderson, ML Bell (2011). *Vulnerability to Temperature-Related Mortality in Seoul, Korea*. Poster presentation. 23rd Conference of the International Society for Environmental Epidemiology. Barcelona, Spain.
- Anderson GB, ML Bell (2011). *Lights Out: Impact of the August 2003 Power Outage on Mortality in New York, NY*. 23rd Conference of the International Society for Environmental Epidemiology. Barcelona, Spain.
- Anderson GB, ML Bell (2011). *Investigating Heatwave Effects through Multi-Level Modeling: The Roles of Heatwave Variability and Heatwave Characteristics*. 23rd Conference of the International Society for Environmental Epidemiology. Barcelona, Spain.
- Bell ML, K Ebisu, K Belanger, JF Gent, BP Leaderer, HJ Lee, P Koutrakis (2011). *Mothers' Exposures to Airborne Particulate Matter with Birth Weight*. International Conference on Environmental Pollution and Remediation. Ottawa, Canada.
- Ebisu K, TR Holford, KD Belanger, BP Leaderer, ML Bell (2001). *Urban Land-use and Infants' Respiratory Symptoms*. Joint Statistical Meetings. Miami, FL.
- Ebisu K, RD Peng, ML Bell (2011). *Spatial Heterogeneity of PM_{2.5} Chemical Constituent Levels*. Poster presentation. Society for Epidemiological Research Annual Meeting. Montreal, Canada.
- Anderson GW, ML Bell (2011). *Impacts of the August 2003 Power Outage on Mortality in New York, NY*. Poster presentation. Society for Epidemiological Research Annual Meeting. Montreal, Canada.
- Ebisu K, K Belanger, JF Gent, HJ Lee, P Koutrakis, BP Leaderer, ML Bell (2011). *Association between Fine Particulate Matter Exposure and Birth Weight*. Society for Epidemiological Research Annual Meeting. Montreal, Canada.
- Bell ML (2011). *Human Health Impacts of Airborne Particles*. Yale University, School of Forestry and Environmental Studies, New Haven, CT.
- Cohan DS, A Digar, W Tang, ML Bell (2010). *Uncertainties Influencing Health-Based Prioritization of Ozone Abatement Options*. Community Modeling and Analysis System (CMAS) Conference. Chapel Hill, NC.
- Geer LA, J Weedon, ML Bell (2010). *Ambient Air Pollution and Low Birth Weight in Texas: 1998-2004*. 22nd Conference of the International Society for Environmental Epidemiology. Seoul, Korea.
- Son JY, ML Bell, JT Lee (2010). *Individual Exposure to Air Pollution and Lung Function in Korea: Spatial Analysis Using Multiple Exposure Approaches*. Poster presentation. 22nd Conference of the International Society for Environmental Epidemiology. Seoul, Korea.
- Son JY, ML Bell, JT Lee (2010). *Survival Analysis of Long-Term Exposure to Different Sizes of Airborne Particulate Matter and Risk of Infant Mortality Using a Birth Cohort in Seoul, Korea*. Poster presentation. 22nd Conference of the International Society for Environmental Epidemiology. Seoul, Korea.
- Gurung A, ML Bell (2010). *Exposure to Particulate Matter, Kathmandu Valley, Nepal*. Poster presentation. 22nd Conference of the International Society for Environmental Epidemiology. Seoul, Korea.
- Pickett AR, ML Bell (2010). *Assessment of Indoor Air Quality in Homes with Newborn Infants*. 22nd Conference of the International Society for Environmental Epidemiology. Seoul, Korea.

- Ebisu K, TR Holford, KD Belanger, BP Leaderer, ML Bell (2010). *How Does Urbanicity Affect Wheeze Symptoms in the United States?* 22nd Conference of the International Society for Environmental Epidemiology. Seoul, Korea.
- Bell ML, K Belanger, K Ebisu, JF Gent, HJ Lee, P Koutrakis, BP Leaderer (2010). *Association of Exposure to Fine Particulate Matter Constituents and Sources with Birth weight*. Poster presentation. 22nd Conference of the International Society for Environmental Epidemiology. Seoul, Korea.
- Anderson GB, ML Bell (2010). *Influence of Heatwave Intensity, Duration, and Timing in Season on Heatwave Mortality Effects in the United States*. 22nd Conference of the International Society for Environmental Epidemiology. Seoul, Korea.
- Ji M, D Conan, ML Bell (2010). *A Meta-analysis of Association between Short-term Ambient Ozone Exposure and Respiratory Hospital Admissions*. 22nd Conference of the International Society for Environmental Epidemiology. Seoul, Korea.
- Anderson GB, ML Bell (2010). *Influence of Heatwave Intensity, Duration, and Timing in Season on Heatwave Mortality Effects in the United States*. 22nd Conference of the International Society for Environmental Epidemiology. Seoul, Korea.
- Anderson GB, ML Bell (2010). *Heatwaves and Mortality in New York, NY*. Poster presentation. Society for Epidemiologic Research Annual Meeting. Seattle, WA.
- Bravo MA, ML Bell (2010). *Spatial Heterogeneity of PM₁₀ and O₃ in São Paulo, Brazil*. Poster presentation. Society for Epidemiologic Research Annual Meeting. Seattle, WA.
- Ebisu K, Holford TR, Belanger K, Leaderer BP, Bell ML (2009). *Land Use and Children's Respiratory Symptoms in Connecticut*. 137th American Public Health Association Annual Meeting. Philadelphia, PA.
- Ebisu K, Peng RD, Dominici F, Bell ML (2009). *Effect Modification by Air Conditioning on Particulate Matter Health Effect Estimates*. American Public Health Association Annual Meeting. Philadelphia, PA.
- DellaValle C, ML Bell, E Triche (2009). *Modeling Ambient Allergen Concentrations in the Northeastern U.S.* International Society of Exposure Science Conference. Minneapolis, MN.
- Bell ML, K Ebisu, RD Peng, JM Samet, F Dominici (2009). *Hospital Admissions and Chemical Composition of Fine Particulate Matter*. 21st Conference of the International Society for Environmental Epidemiology. Dublin, Ireland.
- Anderson B, M Bell (2009). *A Study of Heat-Wave Related Mortality in 107 United States Communities*. 21st Conference of the International Society for Environmental Epidemiology. Dublin, Ireland.
- Anderson B, M Bell (2009). *Does One Size Fit All? The Suitability of Standard Ozone Exposure Metric Conversion Ratios and Implications for Epidemiology*. Poster presentation. 21st Conference of the International Society for Environmental Epidemiology. Dublin, Ireland.
- Woodruff T, JD Parker, K Adams, M Bell, U Gehring, S Glinianaia, EH Ha, B Jalaludin, R Slama, M Wilhelm (2009). *The International Collaboration on Air Pollution and Pregnancy Outcomes*. 21st Conference of the International Society for Environmental Epidemiology. Dublin, Ireland.
- Ebisu K, ML Bell, LA McKay, JF Gent, K Belanger, MB Bracken, BP Leaderer, TR Holford (2009). *Estimating NO₂ Level from Traffic Exposure using GIS and GLM*. Joint Statistical Meetings. Washington, DC.
- Cohan S, A Digar, ML Bell (2009). *Influence of Concentration-Response Temporal Metrics on Control Strategy Optimization*. NATO/SPS International Technical Meeting on Air Pollution Modelling and its Application. San Francisco, CA.
- Ji M, ML Bell (2009). *A Meta-analysis of the Association Between Ozone Exposure and Hospital Admissions*. Air and Waste Management Association Annual Conference. Detroit, MI.

- Bravo MA, ML Bell (2009). Spatial Homogeneity of PM₁₀ and Ozone in São Paulo, Brazil and Links to Human Health. Poster presentation. Air and Waste Management Association Annual Conference. Detroit, MI.
- Harrington W, RD Morgenstern, JS Shi, M Bell (2009). *Using Statistical Models to Link Stationary Source Emissions to Ambient PM_{2.5} Concentrations in the Eastern United States*. Poster presentation. Health Effects Institute Annual Conference. Portland, OR.
- Bell ML, K Ebisu, RD Peng, JM Samet, F Dominici (2009). *Hospital Admissions and Chemical Composition of Fine Particle Air Pollution*. Poster presentation. Health Effects Institute Annual Conference. Portland, OR.
- Anderson GB, ML Bell (2008). *Extreme Temperature Effects: A Study of the Effects of Heat, Cold, and Heat Waves on Human Mortality in 107 U.S. Cities*. Poster presentation. 20th Conference of the International Society for Environmental Epidemiology. Pasadena, CA.
- Bell ML, K Ebisu, RD Peng, J Walker, JM Samet, SL Zeger, F Dominici (2008). *Seasonal and regional short-term effects of fine particles on hospital admissions in 202 U.S. counties, 1999-2005*. 20th Conference of the International Society for Environmental Epidemiology. Pasadena, CA.
- Ebisu K, ML Bell, K Belanger (2008). *Air Pollution Effects on Birth Weight in Connecticut and Massachusetts*. Poster presentation. 20th Conference of the International Society for Environmental Epidemiology. Pasadena, CA.
- Jiang R, ML Bell (2008). *The Characterization and Health Effects of Indoor Particulate Matter Pollution from Biomass Burning in Northeastern China*. Poster presentation. 20th Conference of the International Society for Environmental Epidemiology. Pasadena, CA.
- Bell ML, K Belanger (2008). *Particulate Matter and Pregnancy Outcomes*. Particulate Matter ISA Peer Review Workshop. Research Triangle Park, NC.
- Bell ML, K Ebisu, RD Peng, JM Samet, SL Zeger, F Dominici (2008). *Seasonal and Regional Short-term Effects of Fine Particles on Hospital Admissions in 202 U.S. Counties*. Poster presentation. Health Effects Institute Annual Conference. Philadelphia, PA.
- Anderson GB, ML Bell (2008). *How Heat Waves Affect Mortality in the United States*. Annual Air and Waste Management Association Conference. Portland, OR.
- Morgenstern RD, W Harrington, JS Shih, R Cooke, AJ Krupnick, M Bell (2008). *Accountability Analysis of Title IV of the 1990 Clean Air Act Amendments: An Approach using Bayesian Belief Nets*. Poster presentation. Health Effects Institute Annual Conference. Philadelphia, PA.
- Ebisu K, ML Bell, RD Peng, F Dominici (2008). *Seasonal/Regional Effect Estimates for PM_{2.5} and Hospital Admissions Rates*. International Biometric Society North American Region Spring Meeting. Arlington, VA.
- DellaValle C, ML Bell, R Goldberg, C Hogrefe, C Rosenzweig, P Kinney, J Rosenthal, K Knowlton, B Lynn, J Patz (2008). *An Estimate of Ambient Ozone Concentrations in the Eastern U.S. Under a Changing Climate*. Connecticut Conference on Natural Resources, Univ. of Connecticut. Storrs, CT.
- Breyse PN, ML Bell (2007). *Linking Outcomes from Time Series Studies to Laboratory Toxicology*. EPA Particulate Matter Center Meeting. Los Angeles, CA.
- Kinney P, M Bell, C Hogrefe, K Knowlton, J Rosenthal, C Rosenzweig, et al. (2007). *Climate Change, Air Quality, and Health: Assessing Potential Impacts over the Eastern US*. 19th Conference of the International Society for Environmental Epidemiology. Mexico City, Mexico.
- Bell ML, K Ebisu, RD Peng, F Dominici (2007). *The Effect of PM_{2.5} on Hospital Admissions Rates by Season and Region*. Poster presentation. 19th Conference of the International Society for Environmental Epidemiology. Mexico City, Mexico.
- Bell ML, MS O'Neill, N Ranjit, LA Cifuentes, N Gouveia, VH Borja-Aburto (2007). *Potential Effect Modifiers of Heat-Related Mortality Risk in Santiago, Chile*. 19th Conference of the International Society for Environmental Epidemiology. Mexico City, Mexico.

- Bell ML, K Ebisu, K Belanger (2007). *Is Risk of Low Birth Weight Affected by Maternal Exposure to Air Pollution?* Poster presentation. 19th Conference of the International Society for Environmental Epidemiology. Mexico City, Mexico.
- Bell ML (2007). *Co-Exposures in Ozone and Particulate Matter in Epidemiologic Studies*. 19th Conference of the International Society for Environmental Epidemiology. Mexico City, Mexico.
- Davis DL, ML Bell, LA Cifuentes, A Krupnick, R Morgenstern, GD Thurston (2007). *Framework for Estimating Ancillary Public Health Benefits of Improved Air Quality from Climate Change Mitigation*. Poster presentation. 19th Conference of the International Society for Environmental Epidemiology. Mexico City, Mexico.
- Ebisu K, ML Bell, RD Peng, F Dominici (2007). *The Effect of PM_{2.5} on Hospital Admissions Rates by Season and Region*. Joint Statistical Meeting. Salt Lake City, UT.
- Anderson BW, ML Bell (2007). *A National Study of Weather-Related Mortality*. Poster presentation. Air and Waste Management Association Annual Conference. Pittsburgh, PA.
- Ebisu K, K Belanger, ML Bell (2007). *Impact of Air Pollution on Birth Weight in Connecticut and Massachusetts*. Poster presentation. Society for Epidemiologic Research Annual Meeting. Boston, MA.
- O'Neill MS, ML Bell, N Ranjit, LA Cifuentes, D Loomis, N Gouveia, VH Borja-Aburto. 2007. *Education, Air Pollution and Mortality in Latin America*. Poster presentation. Society for Epidemiologic Research Annual Meeting. Boston, MA.
- Ebisu K, ML Bell, RD Peng, F Dominici (2007). *The Effect of PM_{2.5} on Hospital Admissions Rates by Season and Region*. Poster presentation. Society for Epidemiologic Research Annual Meeting. Boston, MA.
- Bell ML, K Ebisu, K Belanger (2007). *Ambient Air Pollution and Low Birth Weight in Connecticut and Massachusetts*. Poster presentation. American Thoracic Society International Conference. San Francisco, CA.
- Bell ML, K Ebisu, F Dominici (2007). *Spatial and Temporal Variation in PM_{2.5} Chemical Composition for Health Effects Studies*. Poster presentation. Health Effects Institute Annual Conference. Chicago, IL.
- Morgenstern RD, W Harrington, AJ Krupnick, M Bell, JS Shih (2007). *Accountability Analysis of Title IV of the 1990 Clean Air Act Amendments*. Poster presentation. Health Effects Institute Annual Conference. Chicago, IL.
- Bell M, F Dominici (2006). *The Impact of Race, Socioeconomics, and Air Conditioning on Ozone and Mortality Relationships*. Poster presentation. Annual Meeting for Climate Variability, Air Quality and Human Health: Measuring Regional Vulnerability for Improved Decision-Making. NASA Goddard Institute for Space Studies and Columbia University, New York, NY.
- Bell M, F Dominici (2006). *The Impact of Race, Socioeconomics, and Air Conditioning on Ozone and Mortality Relationships*. Poster presentation. National Environmental Public Health Conference. Centers for Disease Control, Atlanta, GA.
- Levy JK, ML Bell, Z Lin (2006). *Sand-dust Storm Mitigation and Prevention: Reducing the Impact of Asian Sand-dust Storm Events on Human Health*. Poster presentation. Global Environmental Change: Regional Challenges, An Earth System Science Partnership, Global Environmental Change. Beijing, China.
- O'Neill MS, ML Bell, N Ranjit, VH Borja-Aburto, LA Cifuentes, N Gouveia, D Loomis (2006). *Air Pollution, Temperature, and Mortality in 3 Latin American Mega-Cities*. Network for Environmental Risk Assessment and Management (NERAM) V Colloquium. Vancouver, Canada.
- Bell M, F Dominici (2006). *Analysis of Threshold Effects for Short-Term Exposure to Ozone and Increased Risk of Mortality*. 18th Conference of the International Society for Environmental Epidemiology. Paris, France.

- O'Neill MS, ML Bell, N Ranjit, VH Borja, LA Cifuentes, N Gouveia, D Loomis (2006). *Air Pollution, Mortality, and Educational Attainment in Three Latin American Cities*. Poster presentation. 18th Conference of the International Society for Environmental Epidemiology. Paris, France.
- Bell M, F Dominici (2006). *Do Community-Specific Characteristics Modify Ozone Effect Estimates for Mortality?* 18th Conference of the International Society for Environmental Epidemiology. Paris, France.
- Bell M, K Ebisu, F Dominici (2006). *Spatial and Temporal Variation in PM_{2.5} Chemical Composition in the United States*. Poster presentation. 18th Conference of the International Society for Environmental Epidemiology. Paris, France.
- Bell ML, RD Peng, F Dominici (2006). *Exposure-Response Curve for Short-Term Ozone Exposure and Risk of Premature Mortality*. American Thoracic Society International Conference. San Diego, CA.
- Bell ML, F Dominici (2006). *Regional Differences and Heterogeneity in Ozone-Mortality Effect Estimates*. Poster presentation. American Thoracic Society International Conference. San Diego, CA.
- Bell ML, K Ebisu, F Dominici (2006). *Spatial and Temporal Variation in PM_{2.5} Chemical Composition*. Poster presentation. Health Effects Institute Annual Conference. San Francisco, CA.
- Morgenstern RD, Harrington W, Krupnick AJ, Bell M, Shis J-S (2006). *Accountability Analysis of Title IV of the 1990 Clean Air Act Amendments*. Poster presentation. Health Effects Institute Annual Conference. San Francisco, CA.
- Knowlton K, ML Bell, C Hogrefe, C Rosenzweig, PL Kinney (2005). *Assessing Potential Health Impacts of Ozone and PM_{2.5} Under a Changing Climate*. Poster presentation. Annual Meeting for Climate Variability, Air Quality and Human Health: Measuring Regional Vulnerability for Improved Decision-Making. NASA Goddard Institute for Space Studies and Columbia University, New York, NY.
- Williams H, A Wiman, C Williams, C Stineman, R Freeman, R Lee, M Bell, JM Symons, S Kim, R White, J Samet, P Breysse (2005). *Assessing the Public Health Impacts of the 1991 Gulf War on the Population of Saudi Arabia: A Qualitative Risk Assessment Approach*. Poster presentation. Society for Toxicology Annual Meeting. New Orleans, LA.
- Bell ML, F Dominici, A McDermott, SL Zeger, JM Samet (2005). *Time-Series Analysis of Ozone and Mortality in 95 U.S. Cities Using a Bayesian Hierarchical Model*. Poster presentation. Annual Meeting for Climate Variability, Air Quality and Human Health: Measuring Regional Vulnerability for Improved Decision-Making. NASA Goddard Institute for Space Studies and Columbia University, New York, NY.
- Knowlton K, ML Bell, C Hogrefe, C Rosenzweig, PL Kinney (2005). *Assessing Potential Health Impacts of Ozone and PM_{2.5} Under a Changing Climate*. Poster presentation. U.S. Climate Change Science Program Workshop. Washington, DC.
- Bell ML, F Dominici, J Samet (2005). *Meta-Analysis of Ozone and Mortality*. 17th Conference of the International Society for Environmental Epidemiology. Johannesburg, South Africa.
- Bell ML, H Ellis (2005). *The Impact of Biogenic VOC Emissions on Tropospheric Ozone Formation in the Mid-Atlantic Region of the United States*. Thirteenth International Conference on Modelling, Monitoring and Management of Air Pollution. Cordoba, Spain.
- Bell ML, K Ebisu, F Dominici, B Leaderer (2005). *Assessment of the Mortality Effects of Particulate Matter Characteristics*. Poster presentation. Health Effects Institute Annual Conference. Baltimore, MD.
- Bell M, Y Chen, H Ellis, BF Hobbs (2004). *Simulation of the Effect of Climate Change on Electricity Emissions and Tropospheric Ozone*. Institution for Operation Research and Management Science (INFORMS) Annual Meeting. Denver, CO.

- Bell ML, F Dominici, A McDermott, SL Zeger, JM Samet (2004). *The Impact of Short-Term Changes in Ambient Ozone on Mortality in the United States*. 14th Annual Conference of the International Society of Exposure Analysis. Philadelphia, PA.
- Bell ML, DL Davis, N Gouveia, LA Cifuentes, VH Borja-Aburto (2004). *Health Consequences of Air Pollution in Latin American Cities*. Poster presentation. 14th Annual Conference of the International Society of Exposure Analysis. Philadelphia, PA.
- Bell ML, BF Hobbs, H Ellis (2004). *Metrics Matter: Conflicting Air Quality Rankings from Different Indices of Air Pollution*. Poster presentation. 14th Annual Conference of the International Society of Exposure Analysis. Philadelphia, PA.
- Bell ML (2004). *Air Pollution and Human Health*. Executive Program at Yale. Program for executives of China's State Environmental Protection Administration (SEPA). Yale University. New Haven, CT.
- Bell ML, F Dominici, A McDermott, SL Zeger, JM Samet (2004). *Time-Series Analysis of Ozone and Mortality in 95 U.S. Cities Using a Bayesian Hierarchical Model*. Poster presentation. 16th Conference of the International Society for Environmental Epidemiology. New York, NY.
- Bell ML, C Hogrefe, C Rosenzweig, P Kinney, J Rosenthal, K Knowlton, B Lynn, J Patz (2004). *Health Impacts from Climate-Change Induced Changes in Ozone Levels in 50 United States Cities*. Poster presentation. 16th Conference of the International Society for Environmental Epidemiology. New York, NY.
- Bell ML, DL Davis, N Gouveia, LA Cifuentes, VH Borja-Aburto (2004). *Mortality, Morbidity, and Economic Consequences of Fossil Fuel-Related Air Pollution in Three Latin American Cities*. Poster presentation. 16th Conference of the International Society for Environmental Epidemiology. New York, NY.
- Bell ML (2004). *Air Quality Modeling as a Tool for Human Health Research*. 16th Conference of the International Society for Environmental Epidemiology. New York, NY.
- Bell ML (2003). *Analysis of Air Pollution and Human Health from Historical and Modern Perspectives*. Yale University, School of Forestry and Environmental Studies. New Haven, CT.
- Bell ML, H Ellis (2003). *Spatial Distribution of Changes in Ozone Levels and Health Effects in Response to Changes in Emissions*. Poster presentation. 15th Conference of the International Society for Environmental Epidemiology. Perth, Australia.
- Bell ML, LA Cifuentes, DL Davis, N Gouveia (2003). *The Avoidable Health Effects of Air Pollution in Three Cities*. Poster presentation. 15th Conference of the International Society for Environmental Epidemiology. Perth, Australia.
- Bell ML (2003). *Analysis of Air Pollution and Human Health from Historical and Modern Perspectives*. Johns Hopkins University, Dept. of Geography and Environmental Engineering. Departmental Seminar. Baltimore, MD.
- Bell M, D Thompson, W Conner, T Faith, M Feinberg, A Livingston, K Lyons, T Mitchell (2002). *Adherence to HAART in an Urban Environment*. Chase Brexton Health Services. Baltimore, MD.
- Bell ML (2002). *Two Studies of Air Pollution*. Johns Hopkins Bloomberg School of Public Health, Dept. of Epidemiology. Baltimore, MD.
- Bell M, D Thompson, W Conner, T Faith, M Feinberg, A Livingston, K Lyons, T Mitchell (2002). *Predictors of Adherence to HAART in an Urban Setting: A Multidisciplinary Approach*. Poster presentation. Elements of Success, an International Conference on Adherence to Antiviral Therapy. Dallas, TX.
- Bell ML, DL Davis, T Fletcher (2002). *Increased Mortality and Morbidity During London's Great Smog Episode of 1952: The Role of Influenza, Temperature, and Pollution*. Poster presentation. The Big Smoke: Fifty Years After the 1952 London Smog, Commemorative Conference. London, England.

- Bell ML, G Sun, DL Davis (2002). *From England to China: Using Health Impact Assessments to Promote Sound Development*. 14th Conference of the International Society for Environmental Epidemiology. Vancouver, Canada.
- Bell ML (2002). *Evaluation of the 8-Hour National Ambient Air Quality Standard for Ozone Using an Air Pollution Modeling System*. Poster presentation. Air and Waste Management Association Annual Conference. Baltimore, MD.
- Ellis H, ML Bell (2002). *Regional Ozone and PM Modeling for Baltimore and Atlanta Using Models3*. Regional Air Quality Modeling and Data Analysis Meeting. Sponsored by the Mid-Atlantic Regional Air Management Association (MARAMA), Baltimore, MD.
- Davis DL, ML Bell (2001). *Backs To the Future: Reassessing Donora and London*. 13th Conference of the International Society for Environmental Epidemiology. Garmisch-Partenkirchen, Germany.
- Bell ML, BF Hobbs, EM Elliott, H Ellis, Z Robinson (1998). *An Evaluation of Multicriteria Decision-Making Methods in Integrated Assessment of Climate Policies*. 14th International Conference on Multiple Criteria Decision-Making, University of Virginia. Charlottesville, Virginia.
- Munro JF, MP Farrell, ML Bell (1998). *The Challenges of Eco-Industrialism: Lessons Learned and the Promise of Future Success*. 5th International Congress on Environmentally Conscious Design and Manufacturing (ECDM), Regenerative Design: The New Millennium. Rochester, NY.

FUNDED GRANTS

2021, <i>High Tide Foundation</i> Ethane cracker plants in the United States: emissions and community vulnerability PI: Nicole Deziel (Yale)	\$100,000
2020-2022, <i>Wellcome Trust</i> Air Pollution, Heat, and Health in Brazil under Climate Change PI: ML Bell	\$635,912
2020-2021, Yale Climate Change and Health Center Temporal Trends in the Association between Greenspace, Temperature, and Health Co-PI: Joshua Warren, ML Bell	\$30,000
2019, Hecht Global Health Faculty Award Developing an Implementation Strategy for the Deployment of the World Health Organization Non-Communicable Disease Kits for Energy Settings Co-PI: Saria Hassan, Marcella Nunez-Smith, ML Bell	\$49,918
2017-2022, <i>National Institutes of Health</i> (R01MD012769) Environmental Health Disparities in an Older Population PI: ML Bell	\$3,927,549
2017-2020, <i>Environmental Protection Agency</i> (CR839249) Drinking Water Vulnerability and Neonatal Health Outcomes in Relation to Oil and Gas Production in the Appalachian Basin (Pennsylvania and Ohio Water and Energy Resources Study) PI: Nicole Deziel (Yale)	\$2,000,000
2015-2020, <i>Environmental Protection Agency</i> (R835871) Solutions for Energy Air Climate & Health (SEARCH) Center PI: ML Bell	\$9,999,990
2014-2016, <i>National Institutes of Health</i> (R21ES022585) Vulnerability and Adaptation to Heat and Air Pollution in a Changing Climate PI: Francesca Dominici (Harvard)	\$454,322
2012-2014, <i>National Institutes of Health</i> (R21ES021427)	\$470,640

Vulnerability to Health Effects of Wildfires under a Changing Climate in the Western U.S.	
PI: ML Bell	
2011-2016, <i>National Institutes of Health</i> (R01ES019587)	\$2,683,154
Effects of Fine Particle Composition on Birth Outcomes	
Co-PI: ML Bell , Kathleen Belanger (Yale School of Public Health)	
2011-2016, <i>National Institutes of Health</i> (R01ES019560)	\$1,808,346
Statistical Methods for Complex Environmental Health Data	
PI: Roger D. Peng (Johns Hopkins University)	
2011-2015, <i>U.S. Environmental Protection Agency</i> (EPA R834798)	\$7,997,561
Air Pollution Mixtures: Health Effects Across Life Stages	
PI: Petros Koutrakis (Harvard University)	
2011-2013, <i>National Institutes of Health</i> (R21ES020152)	\$481,764
Extreme Heat and Human Health: Characterizing Vulnerability in a Changing Climate	
PI: Roger D. Peng (Johns Hopkins University)	
2009-2014, <i>National Institutes of Health</i> (R01ES017416)	\$3,179,812
Traffic and Respiratory Morbidity in the Northeast	
Co-PI: Brian Leaderer, Theodore Holford, Janneane Gent (Yale School of Public Health)	
2008-2013, <i>National Institutes of Health</i> (R01ES016317)	\$2,984,687
Effects of Air Pollution and Traffic on Birth Outcomes	
Co-PI: ML Bell , Kathleen Belanger (Yale School of Public Health)	
2007-2012, <i>National Institutes of Health</i> (1 D43 TW 007864-01)	\$809,277
Research Training for Study of Air Pollution Control in China	
PI: Tongzhang Zheng (Yale School of Public Health)	
2007-2009, <i>U.S. Environmental Protection Agency</i> (EPA R833665)	\$299,770
Incorporating Uncertainty Analysis into Integrated Air Quality Planning	
PI: Daniel Cohan (Rice University, Dept. of Civil and Environmental Engineering)	
2006-2011, <i>National Institutes of Health</i> , Outstanding New Environmental Health Scientist Award (ONES) (R01 ES 015028-02)	\$484,360
National Assessment of the Mortality and Morbidity Effects of Tropospheric Ozone	
PI: ML Bell	
2006-2011, <i>U.S. Environmental Protection Agency</i> (EPA R833863)	\$839,439
Spatial-Temporal Modeling and Analysis of Health Effects Associated with Source Contributions and Speciation of Fine Particulate Matter	
Co-PI: Montes Fuentes (North Carolina State University, Dept. of Statistics), Christopher Frey (NCSU, Dept. of Civil, Construction, and Environmental Engineering), Yang Zhang (NCSU, Marine Earth, & Atmospheric Sciences), ML Bell	
2006-2011, <i>National Institutes of Health</i> (5R01 ES 011013-06)	\$2,457,823
Asthma Severity in Children and Fine Particulate Composition	
PI: Brian Leaderer (Yale School of Public Health)	
2006-2011, <i>U.S. Environmental Protection Agency</i> (RD-83241701)	\$7,993,275
Johns Hopkins Particulate Matter Research Center	
PI: Jonathan M. Samet (Johns Hopkins Bloomberg School of Public Health)	
2006-2009, <i>Health Effects Institute</i> (4727-RFA 04-4/06-2)	\$757,585
Accountability Assessment of Title IV of the Clean Air Act Amendments of 1990	
PI: Richard Morgenstern (Resources for the Future)	
2005-2006, <i>U.S. Environmental Protection Agency</i> (EP05C000125)	\$94,207
Ozone Threshold Analysis of City-Specific Variables	
PI: ML Bell	
2004-2008, <i>Health Effects Institute</i> , Walter A. Rosenblith Young Investigator Award (4720-RFA04-2/04-16)	\$299,944
Assessment of the Mortality Effects of Particulate Matter Characteristics	

PI: **ML Bell**

2005, *Centers for Disease Control* (U50/CCU322417)

\$54,584

A National Approach for Estimating Thresholds in Public Health Surveillance: A Case Study of Ozone and Mortality

PI: Francesca Dominici (Johns Hopkins Bloomberg School of Public Health)

DOCTORAL ADVISEES AND COMMITTEES

CURRENT DOCTORAL STUDENTS AND POSTDOCTORAL FELLOWS

Postdoctoral Advisor for Seulkee Heo, Kelvin C. Fong, Whanhee Lee, Chris Lim, and Hongyok Kim

Doctoral Advisor for Katherine Burrows, Rory Stewart, and Hayon Michelle Choi (Yale School of the Environment) and Alisha Chan (Yale Environmental Engineering).

Doctoral Committee for Suwadi Saikomol. Mahidol University, Faculty of Public Health, Department of Sanitary Engineering, Bangkok, Thailand. Advisor: Sarawut Thepanondh.

Doctoral Dissertation Examiner for Vusi Nkosi. University of Pretoria, School of Health Systems and Public Health, Johannesburg, South Africa. Advisor: Kuku Voyi.

Doctoral Committee for Mostafijur Rahman. New York University School of Medicine, Dept. of Environmental Medicine. Advisor: George D. Thurston.

FORMER POSTDOCTORAL ASSOCIATES/FELLOWS (POSITION AFTER YALE, CURRENT POSITION))

Steve Whittaker

Jesse Berman (Postdoctoral associate, Johns Hopkins University, Bloomberg School of Public Health, Dept. of Environmental Health and Engineering. Currently Assistant Professor, University of Minnesota, Environmental Health Sciences)

Kevin James Lane (Postdoctoral associate, Boston University/Harvard University. Currently Assistant Professor, Boston University, School of Public Health)

Keita Ebisu (California Environmental Protection Agency, Office of Environmental Health Hazard Assessment)

Gavin F. Pereira (Research faculty, Curtin University, School of Public Health. Currently Associate Professor, Curtin University)

G. Brooke Anderson (Postdoctoral fellow, Johns Hopkins University, Bloomberg School of Public Health, Dept. of Biostatistics. Currently Associate Professor, Colorado State University, Dept. of Environmental and Radiological Health Sciences)

Marta Vicarelli (Assistant Professor, University of Massachusetts – Amherst, Department of Economics)

Ayaz Hyder (Research Associate, University of Toronto, School of Public Health. Currently Assistant Professor, The Ohio State University, College of Public Health, Environmental Health Sciences)

Jiyoung Son (Research Scientist, Yale University, School of the Environment)

GRADUATED DOCTORAL STUDENTS

Advisor for Chen Chen (2020). “Temporal Trends of Health Impacts from Air Pollution Today and under a Changing Climate,” Yale School of the Environment.

Doctoral Committee for Kangning Huang (2019). “Augmented Compound Urban Temperature Extreme (ACUTE) from Climate Change and Urban Expansion: Global Risk and Adaptation,” Yale School of Forestry and Environmental Studies. Advisor: Karen Seto.

Advisor for Amruta Nori-Sarma (2019). “Temperature, Air Pollution, and Human Health Burden in Urban India,” Yale School of Forestry and Environmental Studies.

Doctoral Committee for Chris C. Lim (2019). “Temperature, Air Pollution, and Mortality in the NIH-AARP Cohort,” New York University School of Medicine, Dept. of Environmental Medicine. Advisor: George D. Thurston.

Advisor for Lan Jin (2018). “Air pollution and adverse birth outcomes in Lanzhou, China,” Yale School of Forestry and Environmental Studies.

Advisor for Steve Whittaker (2018). “Climate Change Adaptation, Ambient Air Quality and Health in the Eastern Caribbean,” Yale School of Public Health, Environmental Sciences Division.

Dissertation Reader for Elise Elliott (2017). “Advancing understanding of exposure and health impacts of unconventional oil and gas development: a community-based environmental health study in Ohio,” Yale School of Public Health, Environmental Health Sciences. Advisor: Nicole Deziel.

Advisor for Anoba Gurung (2016). “Understanding Air Pollution and Human Health Burden Associated in Kathmandu Valley, Nepal,” Yale School of Forestry and Environmental Studies.

Advisor for Jia (Coco) Liu (2016). “Exposure and Health Impacts of PM_{2.5} from Wildfires in the Western US for the Present-day (2004-2009) and in the Future (2046-2051),” Yale School of Forestry and Environmental Studies.

Doctoral Committee for Xi Gong (2016). “Exploring Associations between Environmental Risk Factors and Low Birth Weight Using Geographic Big Data,” Texas State University – San Marcos, Dept. of Geography. Advisor: Benjamin F. Zhan.

Doctoral Committee for Nan Zhao (2016). “Understanding the Role of Prenatal Exposure to Ambient Air Pollutants in Preterm Birth and Ultrasound Measured Fetal Growth in China,” Yale School of Public Health, Environmental Health Sciences Division. Advisor: Yawei Zhang.

Advisor for Mercedes A. Bravo (2014). “Health Impacts of Air Pollution: Investigating Methods of Exposure Assessment and Factors Affecting Vulnerability,” Yale School of Forestry and Environmental Studies.

External Examiner for Chit (Vivian) Pun (2014). “Associations of Chemical Composition and Source of Ambient Particulate Matter with Emergency Hospital Admissions in Hong Kong,” The Chinese University of Hong Kong – The Jockey Club School of Public Health and Primary Care, Prince of Wales Hospital. Hong Kong.

Advisor for Keita Ebisu (2012). “Evaluating Effects of Environmental Exposures on Health Outcomes of Children,” Yale School of Forestry and Environmental Studies.

External Examiner for Sarunya Sujaritpong (2014). “Health Risks from PM_{2.5} and Ozone in Melbourne: Present and Projected Futures,” Australian National University

Doctoral Committee for Hyung Joo Lee (2012). “Application of Satellite Remote Sensing and Spatial Clustering to Investigate Spatial Patterns of PM_{2.5} in the New England Region, U.S.” Harvard University, School of Public Health, Dept. of Environmental Health. Advisor: Petros Koutrakis.

Doctoral Committee for Antara Digar (2012). “Uncertainty in Regional Air Quality Modeling,” Rice University, Dept. of Civil and Environmental Engineering. Advisor: Daniel S. Cohan.

Doctoral Reader for John Lanier Pearce (2011). “Linking Meteorology, Air Pollution, and Health in Melbourne, Australia.” Monash University, School of Geography and Environmental Sciences, Australia. Advisor: Jason Beringer.

Doctoral Reader for Gavin F. Pereira (2011). “The influence of traffic-related air pollution on infant and child health: an application to fetal growth and asthma,” University of Western Australia, School of Pediatrics and Child Health Advisor: Natasha Nassar.

Advisor for Curt DellaValle (2010). “Aeroallergen Modeling and the Effects of Aeroallergen Concentrations on Asthmatic Symptoms and ER Visits,” Yale School of Forestry and Environmental Studies.

Advisor for G. Brooke Anderson (2010). "Weather-related mortality: How heat, cold, and heatwaves affect mortality in the United States," Yale Environmental Engineering Program.

Committee Member for Ji-Young Son (2010). "Prediction Approaches of Personal Exposure Using Spatial Analysis in Evaluating Air Pollution Effect on Health Outcome," Graduate School of Hanyang University, Dept. of Health Sciences, Korea. Advisor: Jong-Tae Lee.

Committee Member for Emily J. Viau (2009). "Human Pathogenic and Lung Inflammatory Aerosol Exposures Associated with the Land Application of Biosolids," Yale Environmental Engineering. Advisor: Jordan Peccia.

Committee Member for Nicholas Muller (2007). "An Integrated Economic Analysis of Air Pollution in the United States," Yale School of Forestry and Environmental Studies. Advisor: Robert Mendelsohn.

Committee Member for Kim Knowlton (2005). "Mortality in Metropolitan New York Under a Changing Climate," Columbia University, Mailman School of Public Health. Advisor: Patrick L. Kinney.

Dissertation Reader for Lixun Zhang (2011). "A Bayesian Spatio-Temporal Model for Estimating Daily Nitrogen Dioxide Levels," Yale School of Public Health, Biostatistics Division. Advisor: Theodore Holford.

Dissertation Reader for Howard Dean Hosgood (2008). "Etiology of Lung Cancer and Environmental Risk Factors in Xuanwei, China," Yale School of Public Health, Environmental Health Sciences Division. Advisor: Tongzhang Zheng.

Special Investigation Committee Member for Emily Viau (2006). "Quantitative PCR Detection in Human Adenoviruses in Aerosol Samples," Yale Environmental Engineering. Advisor: Jordan Peccia.

Special Investigation Committee Member for Emily Viau (2005). "Oligonucleotide Probe Design and Optimization/Emerging Diagnostic DNA Microarray Technology," Yale Environmental Engineering. Advisor: Jordan Peccia.

Graduate Board Oral Exam Committee for Laura E. LaRosa (2003). "Field and Laboratory Evaluation of a Refined Method for Assessing Small Airway Function," Johns Hopkins Bloomberg School of Public Health, Dept. of Environmental Health Sciences. Advisor: Timothy J. Buckley.

JOURNAL ACTIVITIES

EDITOR

American Journal of Public Health, Associate Editor (2016 to 2020)
Guest editor: *ERL Focus on Energy Transitions and Health* (2020)
Environmental Research Letters, Board of Editors (2005 to 2013), Executive Board (2014 to present)
Environmental Health Perspectives, Associate Editor (2011 to 2016)
Epidemiology, Board of Editors (2007 to 2016)
Air Quality, Atmosphere and Health, Associate Editor (2009 to 2013)

JOURNAL REVIEWER

Advances in Science and Research; *African Journal of Science and Technology*; *Air Quality, Atmosphere, and Health*; *American Journal of Epidemiology*; *American Journal of Respiratory and Critical Care Medicine*; *Archives of Environmental and Occupational Health*; *Atmospheric Environment*; *Atmospheric Pollution Research*; *Biomedical and Environmental Sciences*; *BMC Medical Research Methodology*; *Circulation*; *Climatic Change*; *EcoHealth*; *Ecological Economics*; *Energy for Sustainable Development*; *Environment International*; *Environmental Engineering Science*; *Environmental Geochemistry and Health*; *Environmental Health Perspectives*; *Environmental Research*; *Environmental Science and Policy*; *Environmental*

Science & Technology; Epidemiology; Geophysical Research Letters; Indoor Air; International Journal of Biometeorology; International Journal Of Environmental Health Research; International Journal of Environmental Studies; International Journal of Environmental Research and Public Health; International Journal of Health Geographics; International Journal of Sustainable Transportation; ISEE Transactions on Systems, Man, and Cybernetics; Journal of the Air and Waste Management Association; Journal of the American Medical Association (JAMA); JAMA Internal Medicine; Journal of Environmental Assessment Policy and Management; Journal of Environmental Management; Journal of Environmental and Public Health; Journal of Epidemiology and Community Health; Journal of Exposure Analysis and Environmental Epidemiology; Journal of Exposure Science and Environmental Epidemiology; Journal of Geography, Environment and Earth Science International; Journal of Geophysical Research – Atmospheres; Journal of Natural Resources Policy Research; Journal of the Royal Statistical Society – Series A; Journal of Telemedicine and Telecare; Journal of Women’s Health; The Lancet; The Lancet Respiratory Medicine; Location Science; Nature Climate Change; Neurology; Occupational and Environmental Medicine; Operations Research; PLOS ONE; Proceedings of the National Academy of Sciences (PNAS); Public Health; Regulatory Toxicology and Pharmacology; Risk in Perspective, Harvard Center for Risk Analysis; Science of the Total Environment; Scientific Reports; Spatial and Spatio-Temporal Epidemiology

OTHER ACTIVITIES

Member of NIH Study Section Systematic Injury by Environmental Exposure (SIEE) (2020 – present).

Connecticut Academy of Sciences (2019).

Member of Lancet Countdown: Tracking the Connections between Public Health and Climate Change, 2019 – present.

National Academies, Planning Committee for a Workshop on the Implications of the California Wildfires for Health, Communities, and Preparedness, 2019.

Global Burden of Disease Project, 2015 – present.

U.S. Lancet Countdown Working Group, 2018 – present.

Johns Hopkins University Department of Environmental Health & Engineering (EHE) Advisory Committee, 2018 – 2021.

National Academies Gulf Region Co-op Expert Meeting (2018), Arlington, VA.

National Academies, National Research Council Committee for Review of the Fourth National Climate Assessment (NCA4), 2017 to 2018.

Harvard/MIT Center EPA Air, Climate and Energy Center: Scientific Advisory Committee, 2017 to 2022

International Society of Environmental Epidemiology (ISEE) Conference Committee, 2009 to 2018.

International Society of Environmental Epidemiology (ISEE) Ethics and Philosophy Committee, 2016 to 2018.

Environment, Energy, Sustainability, and Health Institute (E²SHI) Advisory Council, Johns Hopkins University, January 2013 to 2018.

Member of NIH (NIEHS) Study Section on Infectious, Reproductive, Asthma and Pulmonary Conditions (IRAP).

Adjunct Doctoral Faculty, Texas State University, Graduate College, San Marcos, TX, November 2013 to December 2016.

EPA Advisory Council on Clean Air Compliance Analysis, October 2008 to September 2014.

EPA Clean Air Scientific Advisory Committee (CASAC) Ozone Review Panel 2009 to 2016.

National Academies, National Research Council Committee for Review of the Army’s Enhanced Particulate Matter Surveillance Project Report, 2009 to 2010.

American Statistical Association, Climate Change Policy Advisory Committee, Health Effects Subcommittee, 2009 to 2010.
Elected Councilor of the International Society for Environmental Epidemiology (ISEE), 2008 to 2010.
Member of the International Collaboration on Air Pollution and Pregnancy Outcomes (ICAPPO), 2007 to 2015. Member of Planning Committee.
Executive Committee of the Johns Hopkins Particulate Matter Center, 2006 to 2010.
Member of Global Burden of Disease 2005, Outdoor Air Pollution Expert Working Group, 2008 to 2013.
Adjunct Associate Professor, Johns Hopkins Bloomberg School of Public Health, Department of Epidemiology, 2005 to 2010.
External Advisory committee for NOAA Project: Climate Variability, Air Quality and Human Health: Measuring Regional Vulnerability for Improved Decision-Making, Columbia University, 2005 to 2007.

Co-organized the following workshops and meetings:

Regional Assessment of Climate Change Impacts in the Southeast: Constituency Perspectives, Values, and Involvement Workshop. Oak Ridge National Laboratory. Knoxville, TN. July 17-20, 1995.

International Expert Workshop on the Analysis of the Economic and Public Health Impacts of Air Pollution. Garmisch-Partenkirchen, Germany. Sep. 6, 2001.

Workshop on Public Health Impacts of Fossil Fuels. Vancouver, Canada. Aug. 12, 2002.

International Symposium on Socio-Economic Factors and Air Pollution Health Effects. Perth, Australia. Sep. 23, 2003.

Promoting Public Health Assessment in Energy and Environmental Planning Workshop – Key Issues in Air Pollution Science and Policy for Developing Countries. InterAmerican Institute for Global Change Research, University of São Paulo School of Medicine, São Paulo, Brazil. July 15, 2004.

Air Quality Data in Health Effects Research. Health Effects Institute, Newton, MA. Nov. 4-5, 2006.

Methodological Issues in Studies of Air Pollution and Perinatal Outcomes: an International Workshop. Mexico City, Mexico. Member of Planning Committee. Sep. 5, 2007.

Air Quality Monitoring and Data Analysis: Workshop to Discuss Key Issues Related to Conducting Health Research to Support the NAAQS Reviews. U.S. Environmental Protection Agency and Health Effects Institute: Research Triangle Park, NC. April 16-17, 2008.

The International Collaboration on Air Pollution and Perinatal Outcomes: Applying a Standardised Methodological Approach – Workshop to Develop the Plan for Data Re-Analysis. Pasadena, CA. Oct. 11-12, 2008.

International Society for Environmental Epidemiology Annual Conference. Dublin, Ireland. Aug. 25-29, 2009. Member of International Scientific Advisory Board for conference planning.

The International Collaboration on Air Pollution and Perinatal Outcomes: Pilot Project Workshop. Dublin, Ireland. Aug 24, 2009.

International Society of Environmental Epidemiology Annual Conference. Barcelona, Spain. Sep. 13-16, 2011. Member of International Scientific Committee.

International Society for Environmental Epidemiology Annual Conference. Columbia, SC Aug. 26-30, 2012. Member of Scientific Program Committee.

Environmental Health Conference. Basel, Switzerland. Aug. 19-23, 2013. Member of Scientific Program Committee.

International Society for Environmental Epidemiology Annual Conference. Seattle, WA. Aug. 24-28, 2014. Member International Scientific Committee.

International Society for Environmental Epidemiology Annual Conference. Sao Paulo, Brazil. Aug. 30-Sep. 3, 2015. Member of Scientific Program Committee.

Proposal reviewer for National Institutes of Health (NIH), Centers for Disease Control (CDC), U.S. Environmental Protection Agency, Health Effects Institute, Health Canada, California Energy Commission, Israel Science Foundation, UK Medical Research Council - Molecular and Cellular Medicine Board, UK Medical Research Council – Methodology Research Programme, Government of Hong Kong Special Administrative Region – Food and Health Bureau

Abstract reviewer for *International Society of Environmental Epidemiology* conferences, 2008, 2009, 2011-2015, 2020. Abstract reviewer for student and/or new investigator awards for *International Society of Environmental Epidemiology* conferences, 2008, 2009, 2011-2013, and additional years. Jury for International Journal of Public Health Conference Award (2013). Conference paper reviewer for 14th *International Multiple Criteria Decision Making Conference Proceedings*, 1998.

Current or recent member: International Society for Environmental Epidemiology, American Statistical Association, American Thoracic Society, International Society for Exposure Science, Air and Waste Management Association, Society of Toxicology, American Association for the Advancement of Science, and Association for Environmental Studies and Sciences.