
MICHELLE L. BELL

Yale University, School of Forestry and Environmental Studies
195 Prospect St., New Haven CT 06511

E-mail: michelle.bell@yale.edu, Phone: (203)432-9869, <http://environment.yale.edu/bell>

EDUCATION

Johns Hopkins University Baltimore, MD

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

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

Stanford University Palo Alto, CA

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

Massachusetts Institute of Technology Cambridge, MA

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

WORK EXPERIENCE

Yale University, School of 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 Sciences Division

Secondary appointment with the Yale Environmental Engineering Program

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 Oak Ridge, TN

6/94 to 8/96, *Environmental Research Associate* (Contractor: Lockheed Martin)

6/93 to 8/93, *Intern*

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

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 and 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

147. Gurung A, JK Levy, **ML Bell** (accepted). Modeling the intraurban variation in nitrogen dioxide in urban areas in Kathmandu Valley, Nepal. *Environmental Research*.
146. Lane KJ, EC Stokes, KC Seto, S Thanikachalam, M Thanikachalam, **ML Bell** (accepted). Associations between greenness, impervious surface area, and nighttime lights on biomarkers of vascular aging in Chennai, India. *Environmental Health Perspectives*.
145. Son JY, HJ Lee, P Koutrakis, **ML Bell** (accepted). Pregnancy and life-time exposure to fine particulate matter (PM_{2.5}) and infant mortality in Massachusetts, 2001-2007. *American Journal of Epidemiology*.
144. Liu JL, L Mickley, M Sulprizio, X Yue, RD Peng, F Dominici, **ML Bell** (accepted). Respiratory hospital admissions from wildfire smoke under climate change in the Western US (accepted). *Environmental Research Letters*.
143. Jacobs M, G Zhang, S Chen, B Mullins, **ML Bell**, L Jin, Y Guo, R Huxley, G Pereira (accepted). The association between ambient air pollution and selected adverse pregnancy outcomes in China: a systematic review. *Science of the Total Environment*.
142. Liu JL, A Wilson, LJ Mickley, K Ebisu, MP Sulprizio, Y Wang, RD Peng, X Yue, F Dominici, **ML Bell** (accepted). Who among the elderly is most vulnerable to exposure and health risks of PM_{2.5} from wildfire smoke? *American Journal of Epidemiology*.
141. Global Burden of Disease (GBD) 2015 Child Mortality Collaborators (2016). Global, regional, national, and selected subnational levels of stillbirths, neonatal, infant, and under-5 mortality, 1980-2015: a systematic analysis for the Global Burden of Disease Study 2015. *The Lancet* 388, p. 1725-1774.
140. Global Burden of Disease (GBD) 2015 Sustainable Development Goals Collaborators (2016). Measuring the health-related Sustainable Development Goals in 1888 countries: a baseline analysis from the Global Burden of Disease Study 2015. *The Lancet* 388, p. 1813-1850.
139. Gurung A, JY Son, **ML Bell** (accepted). Particulate matter and risk of hospital admission in Kathmandu Valley, Nepal: A case crossover study. *American Journal of Epidemiology*.
138. Son JY, KL Lane, JT Lee, **ML Bell** (2016). Urban vegetation and heat-related mortality in Seoul, Korea. *Environmental Research* 151, p. 728-733.
137. Global Burden of Disease (GBD) 2016 Mortality and Causes of Death Collaborators (2016). Global, regional, and national life expectancy, all-cause and cause-specific mortality for 249 causes of death, 1980–2015: a systematic analysis for the Global Burden Of Disease Study 2015. *The Lancet* 388, p. 1459-1544.
136. Global Burden of Disease (GBD) 2015 Risk Factors Collaborators (2016). Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. *The Lancet* 388, p. 1659-1724.
135. Liu JC, LM Mickley, MP Sulprizio, F Dominici, X Yue, K Ebisu, GB Anderson, R Faiaz, A Khan, MA Bravo, **ML Bell** (2016). Particulate air pollution from wildfires in the Western US under climate change. *Climatic Change* 138, p. 655-666.

134. Bravo MA, K Ebisu, F Dominici, Y Wang, RD Peng, **ML Bell**. (accepted). Airborne fine particles and risk of hospital admissions for understudied populations: effects by urbanicity and short-term cumulative exposures in 708 US counties. *Environmental Health Perspectives*.
133. Ebisu K, JD Berman, **ML Bell** (2016). Exposure to coarse particulate matter during gestation and birth weight in the U.S. *Environmental International* 94, p. 519-524.
132. Guo Y, A Gasparrini, BG Armstrong, B Tawatsupa, A Tobias, E Lavigne, M Coelho, X Pan, H Kim, M Hashizume, Y Honda, YL Guo, CF Wu, A Zanobetti, JD Schwartz, **ML Bell**, A Overcenco, K Punnasiri, Shanshan Li, L Tian, P Saldiva, G Williams, S Tong (2016). Temperature variability and mortality: a multi-country study. *Environmental Health Perspectives* 124(10), p. 1554-1559.
131. Bravo MA, R Anthonopolos, **ML Bell**, ML Miranda (2016). Racial isolation and exposure to airborne particulate matter and ozone in understudied US populations: Environmental justice applications of downscaled numerical model output. *Environment International* 92-93, p. 247-255.
130. Chung Y, YH Lim, Y Honda, YLL Guo, M Hashizume, **M Bell**, BY Chen, H Kim (accepted). Temporal changes in mortality related to extreme temperatures for 15 cities in Northeast Asia: adaptation to heat and mal-adaptation to cold. *American Journal of Epidemiology*.
129. Liu JC, A Wilson, LJ Mickley, K Ebisu, Y Wang, MP Sulprizio, RD Peng, X Yue, JY Son, GB Anderson, F Dominici, **ML Bell** (2017). Exposure to wildfire-specific fine particulate matter and risk of hospital admissions in urban and rural counties in the western US 2004-2009. *Epidemiology* 28(1), p. 77-85.
128. West JJ, A Cohen, F Dentener, B Brunekreef, T Zhu, B Armstrong, **ML Bell**, M Brauer, G Carmichael, DL Costa, DW Dockery, M Kleeman, M Krzyzanowski, N Künzli, C Liousse, SCC Lung, RV Martin, U Pöschl, CA Pope III, JM Roberts, AG Russell, C Wiedinmyer (2016). What we breathe impacts our health: improving understanding of the link between air pollution and health. *Environmental Science & Technology* 50(10), p. 4895-4904.
127. Pereira G, M Bracken, **ML Bell** (2016). Particulate air pollution, fetal growth, and gestational length: the influence of residential mobility in pregnancy. *Environmental Research* 147, p. 269-274.
126. Bravo MA, JY Son, C Freitas, N Gouveia, **ML Bell** (2016). Air pollution and mortality in Sao Paulo, Brazil: Effects of multiple pollutants and analysis of susceptible populations. *Journal of Exposure Science and Environmental Epidemiology* 26(2), p. 150-161.
125. **Bell ML**, G Banerjee, G Pereira (accepted). Residential mobility of pregnant women and implications for assessment of spatially-varying environmental exposures. *Journal of Exposure Science and Environmental Epidemiology*.
124. Global Burden of Disease Study (GBD) 2013 Collaborators, Murray CJ et al. (2015). Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic conditions and injuries for 188 countries, 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* 386(9995), p. 743-800.
123. Son JY, N Gouveia, MA Bravo, CU de Freitas, **ML Bell** (2016). The impact of temperature on mortality in a subtropical city: Effects of cold, heat, and heat waves in São Paulo, Brazil. *International Journal of Biometeorology* 60(1), p. 113-121.
122. Pereira G, KA Evans, DQ Rich, M Bracken, **ML Bell** (2016). Fine particulates, preterm birth, and membrane rupture in Rochester, New York. *Epidemiology* 27(1), p. 66-73.
121. Ebisu K, TR Holford, **ML Bell** (2016). Association between greenness, urbanicity, and birth weight. *Science of the Total Environment* 542(Pt A), p. 750-756.
120. Global Burden of Disease (GBD) 2013 DALYs and HALE Collaborators, Murray CJ et al. (2015). Global, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990-2013: Quantifying the epidemiological transition. *The Lancet* 386(10009), p. 2145-2191.

119. Global Burden of Disease (GBD) 2013 Risk Factors Collaborators, Forouzanfar MH et al. (2015). Global, regional and national comparative risk assessment of 79 behavioural, environmental/occupational and metabolic risks or clusters of risks in 188 countries 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* 386(10010), p. 2287-323.
118. Huang X, J Qiu, Y Zhang, W Qiu, X He, Y Wang, Q Sun, N Zhao, H Cui, S Liu, Z Tang, Y Chen, L Yue, Z Da, L Lv, X Lin, C Zhang, H Zhang, R Xu, D Zhu, X Xu, R Lin, T Yao, J Su, Y Dang, X Han, H Zhang, H Bai, W Wang, Y Wang, X Liu, B Ma, H Huang, J Liang, M Jiang, S Ma, **ML Bell**, C Kim, Q Liu, Y Zhang (2015). Ambient air pollutant PM₁₀ and risk of pregnancy-induced hypertension in urban China. *Environmental Research Letters* 10(8).
117. Son JY, H Kim, **ML Bell** (2015). Does urban land-use increase risk of asthma symptoms? *Environmental Research* 142, p. 309-318.
116. Global Burden of Disease (GBD) 2013 Mortality and Cause of Death Collaborators, Naghavi M, et al. (2015). Global, regional, and national age–sex specific all-cause and cause-specific mortality for 240 causes of death, 1990–2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* 385(9963), p. 117-171.
115. Jin L, J Qiu, Y Zhang, W Qiu, X He, Y Wang, Q Sun, M Li, N Zhao, H Cui, S Liu, Z Tang Y Chen, L Yue, Z Da, X Xu, H Huang, Q Liu, **M Bell**, Y Zhang (2015). Ambient air pollution and congenital heart defects in Lanzhou, China. *Environmental Research Letters*. doi:10.1088/1748-9326/10/7/074005.
114. Powell H, JR Krall, Y Wang, **ML Bell**, RD Peng (2015). Ambient coarse particulate matter and hospital admissions in the Medicare Cohort Air Pollution Study 1999-2010. *Environmental Health Perspectives* 123(11), p. 1152-1158.
113. **Bell ML**, JY Son, RD Peng, Y Wang, F Dominici (2015). Ambient PM_{2.5} and risk of hospital admissions: Do risks differ for men and women? *Epidemiology* 26(4), p. 575-579.
112. Zhao N, J Qiu, Y Zhang, X He, M Zhou, M Li, X Xu, H Cui, L Lv, X Lin, C Zhang, H Zhang, R Xu, D Zhu, R Lin, T Yao, J Su, Y Dang, X Han, H Zhang, H Bai, Y Chen, Z Tang, W Wang, Y Wang, X Liu, B Ma, S Liu, W Qiu, H Huang, J Liang, Q Chen, M Jiang, S Ma, L Jin, T Holford, B Leaderer, **ML Bell**, Q Liu, Y Zhang (2015). Ambient air pollutant PM₁₀ and risk of preterm birth in Lanzhou, China. *Environment International* 76, p. 71-77.
111. Chung Y, F Dominici, Y Wang, BA Coull, **ML Bell** (2015). Associations between long-term exposure to chemical constituents of fine particulate matter (PM_{2.5}) and mortality in Medicare enrollees in the Eastern United States. *Environmental Health Perspectives*. 123(5), p. 465-474.
110. Lim YH, **ML Bell**, H Kan, Y Honda, YLL Guo, H Kim (2015). Economic status and temperature-related mortality in Asia. *International Journal of Biometeorology* 59(10), p. 1405-1412.
109. Madrigano J, D Jack, GB Anderson, **ML Bell**, PL Kinney (2015). Temperature, ozone, and mortality in urban and non-urban counties in the Northeastern United States. *Environmental Health* 14(1), doi:10.1186/1476-069X-14-3.
108. Gasparri A, Y Guo, M Hashizume, E Lavigne, A Zanobetti, J Schwartz, A Tobias, S Tong, J Rocklöv, B Forsberg, M Leone, M De Sario, **ML Bell**, YLL Guo, C Wu, H Kan, SM Yi, M de Sousa ZS Coelho, PHN Saldiva, Y Honda, H Kim, B Armstrong (2015). Mortality risk attributable to high and low ambient temperature: a multicountry study. *The Lancet* 386(9991), p. 369-375.
107. Chung YS, YH Lim, Y Honda, YLL Guo, M Hashizume, **ML Bell**, BY Chen, H Kim (2015). Extreme temperature-related mortality for 15 urban cities in Northeast Asia. *Epidemiology* 26(2), p. 255-262.
106. Liu JC, GF Pereira, SA Uhl, MA Bravo, **ML Bell** (2015). A systematic review of the physical health impacts from non-occupational exposure to wildfire smoke. *Environmental Research* 136, p. 120-132.

105. Zhang Y, M Li, MA Bravo, L Jin, A Nori-Sarma, Y Xu, D Guan, C Wang, M Chen, X Wang, W Tao, W Qiu, Y Zhang, **ML Bell** (2014). Air quality in Lanzhou, a major industrial city in China: Characteristics of air pollution and review of existing evidence on air pollution and health. *Water, Air, and Soil Pollution* 225:2187.
104. Son JY, **ML Bell**, JT Lee (2014). The impact of heat, cold, and heat waves on hospital admissions in 8 cities in Korea. *International Journal of Biometeorology* 58(9), p. 1893-1903.
103. Pereira GF, **ML Bell**, HJ Lee, P Koutrakis, K Belanger (2014). Sources of fine particulate matter and risk of preterm birth in Connecticut 2000-2006: A longitudinal study. *Environmental Health Perspectives* 112(10), p. 1117-1122.
102. Pereira GF, **ML Bell**, K Belanger, N de Klerk (2014). Fine particulate matter and risk of preterm birth and pre-labour rupture of membranes in Perth, Western Australia 2000-2006: A longitudinal study. *Environment International* 73, p. 143-149.
101. Kassebaum NJ, et al. (2014). Global, regional, and national levels and causes of maternal mortality during 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* 384(9947), p. 980-1004.
100. Wang H, et al. (2014). Global, regional, and national levels of neonatal, infant, and under-5 mortality during 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* 384(9947), p. 957-979.
99. Murray CJ, et al. (2014). Global, regional, and national incidence and mortality for HIV, tuberculosis, and malaria during 1990-2013: A systematic analysis for the Global Burden of Disease Study, 2013. *The Lancet* 384(9947), p. 1005-1070.
98. Ebisu K, K Belanger, **ML Bell** (2014). The association between airborne PM_{2.5} chemical constituents and birth weight – Implication of buffer exposure assignment. *Environmental Research Letters* 9:084007, doi:10.1088/1748-9326/9/8/084007.
97. Bobb JF, RD Peng, **ML Bell**, F Dominici (2014). Heat-related mortality and adaptation to heat in the United States. *Environmental Health Perspectives* 122(8), p. 811-816.
96. **Bell ML**, A Zanobetti, F Dominici (2014). Who is more affected by ozone pollution? A systematic review and meta-analysis. *American Journal of Epidemiology* 180(1), p. 15-28.
95. Lee HJ, CM Kang, BA Coull, **ML Bell**, P Koutrakis (2014). Assessment of primary and secondary ambient particle trends using satellite aerosol optical depth and ground speciation data in the New England region, United States. *Environmental Research* 113, p. 103-110.
94. **Bell ML**, K Ebisu, BP Leaderer, JF Gent, HJ Lee, P Koutrakis, Y Wang, F Dominici, RD Peng (2014). Associations of PM_{2.5} constituents and sources with hospital admissions: analysis of four counties in Connecticut and Massachusetts (USA) for persons ≥65 years of age. *Environmental Health Perspectives* 122(2), p. 138-144.
93. Pereira G, K Belanger, K Ebisu, **ML Bell** (2014). Fine particulate matter and risk of preterm birth in Connecticut 2000-2006: A longitudinal study. *American Journal of Epidemiology* 179(1), p. 67-74.
92. Hyder A, K Ebisu, HJ Lee, P Koutrakis, K Belanger, **ML Bell** (2014). Using satellite- and monitor-based data to assess the relationship between PM_{2.5} exposure and birth outcomes in Connecticut and Massachusetts (2000-2006). *Epidemiology* 25(1), p. 58-67.
91. Son JY, JT Lee, YG Park, **ML Bell** (2013). Short-term effects of air pollution on hospital admissions in Korea, 2003-2008. *Epidemiology* 24(4), p. 545-554.
90. Krall JR, GB Anderson, F Dominici, **ML Bell**, RD Peng (2013). Short-term exposure to particulate matter constituents and mortality in a national study of U.S. urban communities. *Environmental Health Perspectives* 121(10), p. 1111-1119.
89. **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. *American Journal of Epidemiology* 178(6), p. 865-876.

88. Anderson GB, **ML Bell**, RD Peng (2013). Methods to calculate the heat index as an exposure metric in environmental health research. *Environmental Health Perspectives* 121(10), p. 1111-1119.
87. Gurung A, **ML Bell** (2013). The state of scientific evidence on air pollution and human health in Nepal. *Environmental Research* 124, p. 54-64.
86. Anderson GB, F Dominici, Y Wang, MC McCormack, **ML Bell**, RD Peng (2013). Heat-related emergency hospitalizations for respiratory diseases in the Medicare population. *American Journal of Respiratory and Critical Care Medicine* 187(10), p. 1098-1103.
85. Uhl SA, T James-Todd, **ML Bell** (2013). Association of Osteoarthritis with Perfluorooctanoate and perfluorooctane sulfonate in NHANES 2003 – 2008. *Environmental Health Perspectives* 121(4), p. 447-452
84. 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. *Environmental Research Letters* 8: 014015
83. Dadvand P, J Parker, **ML Bell**, M Bonzini, M Brauer, LA Darrow, U Gehring, SV Glinianaia, N Gouveia, EH 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, MJ Nieuwenhuijsen, TJ Woodruff (2013). Maternal exposure to particulate air pollution and term birth weight; a multi-country evaluation of effect and heterogeneity. *Environmental Health Perspectives* 121(3), p. 267-373.
82. Murray CJ et al. (2012). Disability-adjusted life years (DALYs) for 291 diseases and injuries in 21 regions, 1990-2010: A systematic analysis for the Global Burden of Disease Study 2010. *The Lancet* 380(9859), p. 2197-2223.
81. Vos T et al. (2012). Years lived with disability (YLDs) for 1160 sequelae of 289 diseases and injuries 1990–2010: a systematic analysis for the Global Burden of Disease Study 2010. *The Lancet* 380(9859), p. 2163-2196.
80. Lozano R et al. (2012). Global and regional mortality from 235 causes of death for 20 age groups in 1990 and 2010: a systematic analysis for the Global Burden of Disease Study 2010. *The Lancet* 380(9859), p. 2095-2128.
79. Lim SS et al. (2012). A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990–2010: a systematic analysis for the Global Burden of Disease Study 2010. *The Lancet* 380 (9859), p. 2224-2260.
78. Ebisu K, **ML Bell** (2012). Airborne PM_{2.5} chemical components and birth weight in the Northeastern and Mid-Atlantic regions of US. *Environmental Health Perspectives* 120(12), p. 1746-1752.
77. **Bell ML**, K Ebisu (2012). Environmental inequality in exposures to airborne particulate matter components in the United States. *Environmental Health Perspectives* 120(12), p. 1699-1704.
76. Geer LA, J Weedon, **ML Bell** (2012). Ambient air pollution and term birth weight in Texas from 1998-2004. *Journal of the Air and Waste Management Association* 62(11), p. 1285-1295.
75. Lee HJ, BA Coull, **ML Bell**, P Koutrakis (2012). Use of satellite-based aerosol optical depth and spatial clustering to predict ambient PM_{2.5} concentrations. *Environmental Research* 118, p. 8-15.
74. Harrington W, Morgenstern R, JS Shih, **ML Bell** (2012). Did the Clean Air Act Amendments of 1990 really improve air quality? *Air Quality, Atmosphere and Health* 5(4), p. 353-367.
73. Anderson GB, JR Krall, RD Peng, **ML Bell** (2012). Is the relationship between ozone and mortality confounded by chemical components of particulate matter? Analysis of 7 components in 57 United States communities. *American Journal of Epidemiology* 176(8), p. 726-732.

72. **Bell ML**, K Belanger (2012). Review of research on residential mobility during pregnancy: Consequences for assessment of prenatal environmental exposures. *Journal of Exposure Science and Environmental Epidemiology* 22(5), p. 429-438
71. Son JY, JT Lee, KH Kim, K Jung, **ML Bell** (2012). Characterization of fine particulate matter and associations between particulate chemical constituents and mortality in Seoul, Korea. *Environmental Health Perspectives* 120(6), p. 872-878.
70. **Bell ML**, K Belanger, K Ebisu, JF Gent, BP Leaderer (2012). Relationship between birth weight and exposure to airborne fine particulate potassium and titanium during gestation. *Environmental Research* 117, p. 83-89.
69. Bravo MA, M Fuentes, Y Zhang, M Burr, **ML Bell** (2012). Comparison of exposure estimation methods for air pollutants: ambient monitoring data and regional air quality simulation. *Environmental Research* 116, p. 1-10.
68. Gurung A, **ML Bell** (2012). Exposure to airborne particulate matter in Kathmandu Valley, Nepal. *Journal of Exposure Science and Environmental Epidemiology* 22(3), p. 235-242.
67. Son JY, JT Lee, H Kim, O Yi, **ML Bell** (2012). Susceptibility to air pollution effects on mortality in Seoul, Korea: A case-crossover analysis of individual-level effect modifiers. *Journal of Exposure Science and Environmental Epidemiology* 22(3), p. 227-234.
66. Lin Z, JK Levy, H Lei, **ML Bell** (2012). Advances in disaster modeling, simulation, and visualization for sandstorm risk management in North China. *Remote Sensing* 4(5), p. 1337-1354.
65. Son JY, JT Lee, GB Anderson, **ML Bell** (2012). The impact of heat waves on mortality in 7 major cities in Korea. *Environmental Health Perspectives* 120(4), p. 566-571.
64. Anderson GB, **ML Bell** (2012). Lights out: Impact of the August 2003 power outage on mortality in New York, NY. *Epidemiology* 23(2), p. 189-193.
63. DellaValle CT, EW Triche, BP Leaderer, **ML Bell** (2012). Effects of ambient pollen concentrations on frequency and severity of asthma symptoms among a cohort of asthmatic children. *Epidemiology* 23(1), p. 55-63.
62. DellaValle CT, EW Triche, **ML Bell** (2012). Spatial and temporal modeling of daily pollen concentrations. *International Journal of Biometeorology* 56(1), p. 183-194.
61. Pickett AR, **ML Bell** (2011). Assessment of indoor air pollution in homes with infants. *International Journal of Environmental Research and Public Health* 8(12), p. 4502-4520.
60. Fann N, **ML Bell**, K Walker, B Hubbell (2011). Improving the linkages between air pollution epidemiology and quantitative risk assessment. *Environmental Health Perspectives* 119(12), p. 1671-1675.
59. Son JY, JT Lee, GB Anderson, **ML Bell** (2011). Vulnerability to temperature-related mortality in Seoul, Korea. *Environmental Research Letters* 6(3) Art. No. 034027.
58. Digar A, DS Cohan, **ML Bell** (2011). Uncertainties influencing health-based prioritization of ozone abatement strategies. *Environmental Science & Technology* 45(18), p. 7761-7767.
57. Parker J, DQ Rich, S Glinianaia, JH Leem, **ML Bell**, M Bonzini, M Brauer, L Darrow, U Gehring, N Gouveia, P Grillo, E van den Hooven, B Jalaludin, BM Jesdale, J Lepeule, R Morello-Frosch, GG Morgan, R Slama, F Pierik, AC Pesatori, M Strickland, S Sathyanarayana, L Tamburic, TJ Woodruff (2011). The International Collaboration on Air Pollution and Pregnancy Outcomes: Initial results. *Environmental Health Perspectives* 119(7), p. 1023-1028.
56. **Bell ML**, K Ebisu, RD Peng (2011). Community-level spatial heterogeneity of chemical constituent levels of fine particulates and implications for epidemiological research. *Journal of Exposure Science and Environmental Epidemiology* 21(4), p. 372-384.
55. Son JY, **ML Bell**, JT Lee (2011). 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. *Environmental Health Perspectives* 119(5), p. 725-730.

54. Ebisu K, T Holford, K Belanger, BP Leaderer, **ML Bell** (2011). Urban land-use and respiratory symptoms in infants. *Environmental Research* 111(5), p. 677-684.
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52. Ji M, DS Cohan, **ML Bell** (2011). Meta-analysis of the association between short-term exposure to ambient ozone and respiratory hospital admissions. *Environmental Research Letters* 6(2), Art. No. 024006.
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PRESENTATIONS

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- Bell ML (2016). Washington University in St. Louis, School of Engineering & Applied Science. St. Louis, MO.
- Bell ML (2016). *The Impact of Climate Change on Tropospheric Ozone and Subsequent Human Health*. Conference of the International Society of Environmental Epidemiology. Rome, Italy.
- Bell ML (2016). *Dose-Response Modeling: An Example Using Ozone and Mortality*. Statistical Methods and Analysis of Environmental Health Data Workshop. SAMSI. Mumbai, India.

- Bell ML (2016). *Air Pollution and Human Health: Reflections on Research and Paths Forward*. North Carolina State University, Department of Marine, Ecological, and Atmospheric Sciences. Raleigh, NC.
- Bell ML (2016). *Air Pollution and Health in Brazil*. Invited keynote. North Carolina State University Global Partnership Network (UGPN) Workshop on Air Quality, Climate, and Health. Raleigh, NC.
- Bell ML (2016). *The Human Health Impacts of Forest Fire Smoke Under a Changing Climate*. 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.
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- Bell ML (2013). *How Airborne Particles Affect Your Health: Current Evidence and Remaining Challenges*. Johns Hopkins Bloomberg School of Public Health, Environmental Health Sciences Grand Rounds. Baltimore, MD.
- Bell ML (2013). *Mortality and Morbidity Impacts of Temperature in the United States: Effects in the Current Day and Implications for the Future*. 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.
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- Bell ML (2004). *The Human Health Dimension of Climate Change*. The Inaugural Meeting of the Connecticut Science Center Collaborative. Peabody Museum. New Haven, CT.
- Bell ML (2004). *New Findings on the Public Health Impacts of Ozone and Mortality in the U.S. and Elsewhere*. 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). *Climate Change and Air Pollution Modeling*. National Center for Atmospheric Research (NCAR) Summer Colloquium on Climate and Health. NCAR. Boulder, CO.
- Davis D, ML Bell (2002). *A New Look at the 1952 London Smog*. The Big Smoke: Fifty Years After the 1952 London Smog, Commemorative Conference. London, England.
- Bell ML (2002). *Tropospheric Ozone Modeling – A Case Study*. International Air Pollution and Energy/Climate Policy Collaboration Workshop. Vancouver, Canada.
- Bell ML (1996). *Eco-Industrial Parks: The Industrial Model of the Future*. Center for Global Environmental Studies, Oak Ridge National Laboratory. Oak Ridge. TN.

OTHER PRESENTATIONS (presenter underlined)

- Ferreri JM, RD Peng, ML Bell, L Ya, T Li, GB Anderson (scheduled – 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.
- 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.
- 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 – scheduled). *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

2015-2020, <i>Environmental Protection Agency</i> Solutions for Energy AiR Climate & Health (SEARCH) Center PI: ML Bell	\$9,999,990
2014-2016, <i>National Institutes of Health</i> (R21 ES022585) 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> (R21 ES021427) Vulnerability to Health Effects of Wildfires under a Changing Climate in the Western U.S. PI: ML Bell	\$470,640
2011-2016, <i>National Institutes of Health</i> (R01ES019587) Effects of Fine Particle Composition on Birth Outcomes Co-PI: ML Bell , Kathleen Belanger (Yale School of Public Health)	\$2,683,154
2011-2016, <i>National Institutes of Health</i> (R01ES019560) Statistical Methods for Complex Environmental Health Data PI: Roger D. Peng (Johns Hopkins University)	\$1,808,346

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 RD-8324170)	\$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 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, <i>Centers for Disease Control</i> (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.

Doctoral Advisor for Amruta Sarma, Lan Jin, Steve Whittaker, Chen Chen, and Katherine Burrows.

Doctoral Committee for Chris C. Lim. New York University School of Medicine, Dept. of Environmental Medicine. Advisor: George D. Thurston.

Doctoral Committee for Kangning Huang. Yale School of Forestry and Environmental Studies. Advisor: Karen Seto.

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

Dissertation Reader for Elise Elliott. Yale School of Public Health. Advisor: Nicole Deziel.

FORMER POSTDOCTORAL FELLOWS (POSITION AFTER YALE)

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

Kevin J. Lane (Postdoctoral associate, Boston University/Harvard University)

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

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

G. Brooke Anderson (Postdoctoral fellow, Johns Hopkins University, Bloomberg School of Public Health, Dept. of Biostatistics. Currently Assistant Professor, Colorado State University, Epidemiology)

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

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

Jiyoung Son (Research Scientist, Yale University, School of Forestry & Environmental Studies)

GRADUATED DOCTORAL STUDENTS

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 present)
Environmental Research Letters, Executive Board (2014 to present)
Environmental Research Letters, Board of Editors (2005 to 2013)
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

International Society of Environmental Epidemiology (ISEE) Conference Committee, 2009 to present.
International Society of Environmental Epidemiology (ISEE) Ethics and Philosophy Committee, 2016 to present.

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

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. Abstract reviewer for student and/or new investigator awards for *International Society of Environmental Epidemiology* conferences, 2008, 2009, 2011-2013, 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.