

Curriculum Vitae: Francesca Dominici, Ph.D.

DR. FRANCESCA DOMINICI

Department of Biostatistics, Harvard T.H. Chan School of Public Health
655 Huntington Avenue, SPH2, 4th Floor, Boston, Massachusetts, 02115
<http://www.hsph.harvard.edu/francesca-dominici/>
<https://orcid.org/0000-0002-9382-0141>

EDUCATION & TRAINING	Master of Public Health, Honorary Degree Harvard T.H. Chan School of Public Health, Harvard University Ph.D. Statistics, University of Padua, Italy B.S. Statistics, University La Sapienza, Rome, Italy, <i>110/110 (cum laude)</i>	2009 1997 1993
AREAS OF RESEARCH	Bayesian Statistics, Causal inference, High Dimensional Data, Machine Learning, Environmental Epidemiology, Health Policy, Open Science, Combining Heterogeneous Sources of Data	
PROFESSIONAL EXPERIENCE	Co-Director Harvard Data Science Initiative, Harvard University	Feb. 2017-Present
	Clarence James Gamble Professor of Biostatistics, Population Health and Data Science Department of Biostatistics Harvard T.H. Chan School of Public Health, Harvard University	Jul. 2018-Present
	Faculty Associate, Harvard University Center for the Environment (HUCE)	Jul. 2020- Present
	Senior Associate Dean for Research Harvard T.H. Chan School of Public Health, Harvard University	Nov. 2013-2017
	Associate Dean of Information Technology Harvard T.H. Chan School of Public Health, Harvard University	Mar. 2011-2017
	Professor, Department of Biostatistics Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University	2007-08/2009
	Associate Professor, Department of Biostatistics Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University	2002-2007
	Joint Appointment, Department of Epidemiology Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University	2001-2009
	Assistant Professor, Department of Biostatistics Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University	1999-2002
	Visiting Assistant Professor, Department of Biostatistics Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University	1997-1999
	Visiting Scholar, Institute of Statistics and Decision Science Duke University, North Carolina	1995-1997

Curriculum Vitae: Francesca Dominici, Ph.D.

ACADEMIC SERVICE

DEPARTMENT:

Co-Chair, Junior Faculty Search Committee Department of Biostatistics, Harvard T.H. Chan School of Public Health	2015-2016
Computing Committee Department of Biostatistics, Harvard T.H. Chan School of Public Health	2012-Present
Curriculum Committee Department of Biostatistics, Harvard T.H. Chan School of Public Health	2010-Present

SCHOOL:

Member of the Senior Management Team (Dean and Senior Associate Deans) Harvard T.H. Chan School of Public Health	2015-2018
Committee on the Advancement of Women Faculty (Chair) Harvard T.H. Chan School of Public Health	2015-2018
Academic Executive Team (Deans and Associate Deans) Harvard T.H. Chan School of Public Health	2011-2017
Faculty Council Harvard T.H. Chan School of Public Health	2011-2017
Tenure Committee Member Harvard T.H. Chan School of Public Health	2010-2012

UNIVERSITY:

Ad hoc Professorial Review Committee, Harvard Medical School (Chair James Kasser, Harvard Medical School)	2015-2016
Big Data Planning Committee, Harvard University (Chair Richard McCullough, Harvard VP of Research)	2014-2017
University Council on Research Computing, Harvard University (Chair James Waldo, Harvard CTO)	2011-Present
Harvard Academic Computing, Harvard University (Chair Anne Margulies, Harvard CIO)	2011-Present
Member of Ad hoc Committee to Advise the Dean of the Harvard Medical School for Tenured Appointment at Harvard School of Medicine	2012
Member of Ad hoc Committee to advise the Provost for tenured appointment at Harvard School of Public Health	2012
Chair of Ad hoc Committee to advise the Provost for Tenured Appointments at Harvard School of Public Health	2011

Curriculum Vitae: Francesca Dominici, Ph.D.

PROFESSIONAL ACTIVITIES

SOCIETY MEMBERSHIPS AND LEADERSHIP:

Elected Fellow of the Institute of Mathematical Statistics

Member of the National Academy of Medicine

American Statistical Association International Biometric Society

International Society for Environmental Epidemiology

International Biometric Society ENAR Spring Meeting, Washington DC, Program Committee
Member for the Junior Researcher Workshop, 2003

International Biometric Society ENAR Spring Meeting, Washington, DC, Program Committee
Member, 2002

International Biometric Society ENAR Spring Meeting, Washington DC, Chair of the Program
Committee Member for the Junior Researcher Workshop, 2002

PARTICIPATION ON ADVISORY PANELS:

Member of the Advisory Board of the Harvard Data Science Review	Jul. 1, 2019 – Present
Chairperson of the NIH Biostatistical Methods and Research Design Study Section (BMRD), Center for Scientific Review for the term	Jul. 1, 2017 - June 30, 2018
Member of the NIH Biostatistical Methods and Research Design Study Section (BMRD), Center for Scientific Review for the term	Jul. 1, 2012- 2016 Aug. 2016-Present
Member of the Scientific Advisory Committee (SAC) for the Solutions for Energy, AiR, Climate, and Health (SEARCH) Center, an Air, Climate, and Energy (ACE) Center funded by the EPA, Yale University	
Member of the Centre of Environmental Health Research Advisory Council, Public Health Foundation of India (PHFI)	May 2016-2019
Member of the RAPIDSOS, Inc. Medical Advisory Board	Jan. 2016-Present
Member of the John B. Little International Scientific Advisory Board, Harvard T.H. Chan School of Public Health	Oct. 2015-Present
National Academy of Sciences, Institute of Medicine Committee on Designing an Epidemiologic Study for Multiple Sclerosis and Other Neurologic Diseases in pre- and post- 9/11 Gulf War Veterans	Jan. 2015-Jan. 2016
Member of the Research Committee of the Health Effects Institute (HEI)	November 2014- Present
Member of the National Advisory Committee of the Statistical and Applied Mathematical Sciences Institute (SAMSI)	Jan. 2015-2019

Curriculum Vitae: Francesca Dominici, Ph.D.

Member of Institute of Quantitative Social Science (IQSS) Steering committee, Harvard University	Jan. 2015-Present
Member of the Radiation Effects Research Foundation (RERF) Board of Councilors	Jun. 2014-Present
Member of the Ad hoc Committee for the JPB Environmental Health Fellows Program	Apr. 2014-2016
Member, External Advisory Board of The Southern California Environmental Health Sciences Center (SCEHSC)	2011-2017
National Academy of Sciences, Institute of Medicine Committee Research on Health Effects of Low-Level Ionizing Radiation Exposure: Opportunities for the Armed Forces Radiobiology Research Institute	Apr. 2013-Jun. 2014
Member of a review panel of the Department of Statistics at North Carolina State University to advise the Deans of the College of Physical and Mathematical Sciences, the College of Agriculture and Life Sciences, and the Graduate School	2013
National Academy of Sciences, Institute of Medicine Committee on Gulf War and Health: Long-Term Effects of Blast Exposures	Jun. 2012- Aug. 2013
Chair of the External Review Committee of the Department of Biostatistics at the Mailman School of Public Health, Columbia University	May 2012
National Academy of Sciences, Institute of Medicine Committee to Review the Federal Response to the Health Effects Associated with the Gulf of Mexico Oil Spill	September 2010-Apr. 2011
National Academy of Science, Institute of Medicine Committee on Long-Term Health Consequences of Exposure to Burn Pits in Iraq and Afghanistan	February 2010-Apr. 2011
National Academy of Sciences, Institute of Medicine Committee on Secondhand Smoke Exposure and Acute Coronary Events	Jan. 2009-Aug. 2009
National Academy of Sciences, Institute of Medicine Committee to Review ATSDR's Great Lakes Report	Apr. 2008- Aug. 2008
National Academy of Sciences, Institute of Medicine Committee on Making Best Use of the Agent Orange Exposure Reconstruction Model,	2007-2008
National Academy of Sciences Committee, Institute of Medicine on Gulf War and Health	2005-2006
External Advisory Board, University of Washington Seattle, Department of Environmental and Occupational Health Sciences, MESA Air Pollution Study, PI Joel Kaufman	2005-2015
External Review Committee of the NIH NICHD Division of Epidemiology, Statistics Prevention Research (DESPR)	2004

Curriculum Vitae: Francesca Dominici, Ph.D.

Advisory Board of the International Biometric Society, Eastern North American Region (ENAR) 2003-2005

National Academy of Sciences Committee, Institute of Medicine to assess potential health effects from exposures to PAVE PAWS low-level phased-array radiofrequency energy in Cape Cod, Massachusetts 2002-2005

Scientific Review Panel on Center for Environmental Statistics, EPA Study Section 2001

LEADERSHIP AND DIVERSITY:

Chair of the Committee for the Advancement of Women Faculty at the Harvard T.H. Chan School of Public Health Aug. 2015-2017

Co-chair of the Committee for the Advancement of Women Faculty at the Harvard T.H. Chan School of Public Health, 2012-Aug. 2015

Attended a three-day Executive Program on *Negotiation and Leadership*, Program on Negotiation, Harvard Law School, Executive Education May 18-20, 2015

Participated in the Harvard T.H. Chan School of Public Health Women in Leadership Student Organization Workshop Panel Discussion on “Lessons on Leadership: Defying Gender Stereotypes in the Workplace” Mar. 2014

Participated in Panel Discussion on “Having it All: Weighting to Achieve Balance”, Eastern Northern American Region Mar. 2014

Participated in New Faculty Senior Faculty Panel Discussion, Office of Faculty Development and Diversity 2013

Led Committee on the Concerns of Women Panel Discussion on “Imperfect Balance” (<http://news.harvard.edu/gazette/story/2012/11/having-it-all-at-harvard/>) 2012

Paper – Dominici F, Fried LP and Zeger SL. “So Few Women Leaders” *Academe*, 2009; 95(4):25-27. (<http://www.aaup.org/article/so-few-women-leaders>), 2009

Awarded Diversity Recognition Award by the President of Johns Hopkins University 2009

2005-2009

Co-chaired the University Committee on the Status of Women, Johns Hopkins University (with Linda P. Fried, now Dean of the Mailman School of Public Health at Columbia University)

CONSULTATIONS:

Litigation of “Kerr et al versus Aerojet General Corporation” on a Neuroblastoma Incidence Analysis, Chino Hills California 2005

National Academy of Science Committee on Research Priorities for Airborne Particulate Matter 2002

Clean Air Act Advisory Committee of the EPA	2002
Pacific Business Group on Health: The 1998 Asthma Outcome Survey	1998
Kaiser Permanente: Morbidity and Mortality Associated with Air Pollution among Kaiser Permanente California Members	1998
Litigation of MAGALY PINARES, et al., Plaintiffs, vs. UNITED TECHNOLOGIES CORPORATION, Pratt & Whitney Group	May 2018

TESTIMONY:

Maryland State Committee on House Economic Matters on Health Effects of Particulate Matter and Ozone	2005
Maryland State Committee on Education, Health, and Environmental Affairs on Health Effects of Particulate Matter and Ozone	2005
Litigation of “Kerr et al versus Aerojet General Corporation” on a Neuroblastoma Incidence Analysis, Chino Hills, California	2005

EDITORIAL
ACTIVITIES

EDITORIAL BOARD ACTIVITIES:

Senior Editor, Chapman & Hall/CRC Texts in Statistical Science Series Associate Editor of the Journal of the Royal Statistical Society	Dec. 2007- Dec. 2011
Editor of the American Journal of Epidemiology, Statistical Methodology Area	May 2002-Apr. 2007

PEER REVIEW ACTIVITIES:

American Journal of Epidemiology
Biometrics
Environmetrics
Environmental Health Perspectives
Epidemiology
Journal of the American Statistical Association
Journal of the Royal Statistical Society
Journal of the American Medical Association
New England Journal of Medicine
Science
Statistics in Medicine

AD HOC REVIEW OF PROPOSALS:

Member of the NIH Biostatistical Methods and Research Design Study Section (BMRD), Center for Scientific Review for the term (July 1, 2012 and ending June 30, 2018)
Environmental Protection Agency
Health Effects Institute, Boston, MA
National Institute of Health (NIH)
National Institute of Environmental Health Sciences (NIEHS)
Retirement Research Foundation
Book proposals for John Wiley & Sons, New York and Springer, New York

HONORS &
AWARDS

HONORS:

Elected Member of the National Academy of Medicine, October 2018-Present

Elected Member of the International Society of Mathematical Statistics, Apr. 2020-Present

Named in the 2019 Highly Cited Researcher list (top 1% worldwide)
<https://recognition.webofsciencegroup.com/awards/highly-cited/2019/>

Presidential Invited Address at the Eastern North American Region, International Biometric Society, Mar. 2019

Recognized as one of the top 10 Italian women scientists with the largest impact in biomedical sciences across the world. http://www.corriere.it/salute/16_maggio_24/premiato-38-ricercatrici-italiane-piu-influenti-settore-biomedico-388732be-21b4-11e6-91cf-0087f336776f.shtml

“Cause-specific Risk of Hospital Admission Related to Heat in Older Adults” published in JAMA 2015 received special recognition by NIEHS leaders as one of 28 Papers of the Year <http://www.niehs.nih.gov/news/newsletter/2016/1/papers/2015-papers/index.htm#d>

Recognized in Thomson Reuter’s 2015 list of the most highly cited researchers, ranking in the top 1% of scientists cited in her field. <http://highlycited.com/>

“Comparative Effectiveness Research of Environmental Exposures: Connecting the Dots with Big Data”, Wierman Distinguished Lecture, Johns Hopkins University, Baltimore, MD, 2015

“Residential Exposure to Aircraft Noise and Hospital Admissions for Cardiovascular Diseases: Multi-airport Retrospective Study” published in BMJ Vol. 347 f5561, October 8, 2013 selected for honorable mention as one of the Best Environmental Epidemiology Papers published in 2013 by the International Society for Environmental Epidemiology, 2014

Mathematics for Planet Earth 2013 Simons Foundation Public Lecture Series, hosted by the Statistical and Applied Mathematical Sciences Institute (SAMSI), Raleigh North Carolina, USA

Keynote Speaker at Environmental Health Day, hosted by the Department of Biostatistics at University of Michigan, 2011

Dean’s Lecture, Bloomberg School of Public Health, Johns Hopkins University, 2007

Fellow of the Johns Hopkins Center of Excellence in Public Health Tracking, Centers for Disease Control, 2005

Elected Fellow of the American Statistical Association, 2005 Keynote

Speaker at the Royal Statistical Society, London, UK, 2002

Invitation to address the Royal Statistical Society, London, UK, 2002

AWARDS:

Star-Friedman Award Challenge for Promising Scientific Research, Harvard University 2020. The Challenge recognizes high-risk, high-impact research in the life, physical, and social sciences and targets ambitious projects that might not receive traditional grants.

Karl E. Peace Award for Outstanding Statistical Contributions for the Betterment of Society, from the American Statistical Association, 2020. Dr. Dominici was selected in part “for her high-quality, innovative, and policy-relevant science, for her commitment to transparency and reproducibility in science, and for her work in developing statistical methods for evaluating health effects of exposure to air pollution.”

Jerome Sacks Award for Cross-Disciplinary Research from the American Statistical Association, 2020. Her citation reads, “For her leadership in high-impact cross-disciplinary research that brings together statistical innovation, heterogeneous data, and diverse scientists to address critical challenges in environmental epidemiology, especially regarding the effects of air pollution on public health.”

Janet L. Norwood Award for Outstanding Achievement by a Woman in the Statistical Sciences, University of Alabama, 2016

Florence Nightingale David Award, 2015, sponsored jointly by Committee of Presidents of Statistical Societies and Caucus for Women in Statistics. The selection criteria are excellence in the following: as a role model to women, statistical research, leadership of multidisciplinary collaborative groups, statistics education and service to the profession.

Diversity Recognition Award, Johns Hopkins University, 2009

Myrto Lefkopoulou Distinguished Lectureship Award, Department of Biostatistics, School of Public Health, Harvard University, 2007

Gertrude Cox Award, Washington DC Chapter of the American Statistical Association and RTI International, 2007

Mortimer Spiegelman Award, Statistics Section of the American Public Health Association, 2006

Young Investigator Award, The American Statistical Association Section of Statistics in Epidemiology, for the Best Paper of the Year, 2001

Walter A. Rosenblith New Investigator Award, Three-Year Fellowship, The Health Effects Institute, Boston, Massachusetts, 1999-2002

Student Award, ENAR International Biometric Society, 1998

Three-Year Fellowship and Award for Study and Research Abroad, Department of Statistics, University of Padua, Italy, 1994-1997

PUBLICATIONS

Underlined are current or former students or post-doctoral fellows

JOURNAL ARTICLES: (signifies peer review)

1. **Dominici F**, Parmigiani G, Reckhow KH, Wolpert RL (1997) Combining Information from Related Regressions. *Journal of Agricultural, Biological, and Environmental Statistics*, 2(3):294-312.
2. **Dominici F**. (1997) Testing Simultaneous Hypotheses in Pharmaceutical Trials: A Bayesian Approach. *Journal of Biopharmaceutical Statistics*, 8(2):283-297.
3. Zeger SL, **Dominici F**, Samet JM (1999) Harvesting - Resistant Estimates of Pollution Effects on Mortality. *Epidemiology*, 10(2):171-175.
4. **Dominici F**, Parmigiani G, Wolpert RL, Hasselblad V. (1999) Meta-analysis of Migraine Headache Treatments: Combining Information from Heterogeneous Designs. *Journal of the American Statistical Association*, 94(445):16-28.
5. **Dominici F** (2000) Combining Contingency Tables with Missing Dimensions. *Biometrics*, 56(2):546-553.
6. **Dominici F**, Parmigiani G, Clyde MA (2000) Conjugate Analysis of Multivariate Normal Data with Incomplete Observations. *Canadian Journal of Statistics*, 28(3):533-550.
7. **Dominici F**, Zeger SL, Samet JM (2000) A Measurement Error Model for Time-Series Studies of Air Pollution and Mortality. *Biostatistics*, (2):157-175.
8. Zeger S, Thomas D, **Dominici F**, Cohen AJ, Schwartz J, Dockery D, Samet JM (2000) Measurement Error in Time-series Studies of Air Pollution: Concepts and Consequences. *Environmental Health Perspectives*, 108(5):419-426. PMID: 10811568, PMCID: PMC1638034, doi: 10.1289/ehp.00108419.
9. **Dominici F**, Samet JM, Zeger SL (2000) Combining Evidence on Air pollution and Daily Mortality from the Twenty Largest US Cities: A Hierarchical Modeling Strategy with discussion. *Journal of the Royal Statistical Society: Series A*, 163(3):263-302. (Read at the Royal Statistical Society, London, Jan. 10, 2000)
10. Daniels M, **Dominici F**, Samet JM, Zeger SL (2000) Estimating PM10-Mortality Dose-Response Curves and Threshold Levels: An Analysis of Daily Time-Series For the 20 Largest US Cities. *American Journal of Epidemiology*, 152(5):397-412. (with discussion)
11. Samet JM, **Dominici F**, Curriero F, Coursac I, Zeger SL (2000) Fine Particulate Air Pollution and Mortality in 20 U.S. Cities: 1987-1994. *New England Journal of Medicine*, 343(24):1742-9. (with discussion)
12. **Dominici F** and Parmigiani G (2001) Bayesian Semiparametric Dose-Response Models: An Application to Toxicology. *Biometrics*, 57(1):166-173.
13. **Dominici F** (2002) Invited Commentary on: Air Pollution and Health: What Can We Learn from a Hierarchical Approach? *American Journal of Epidemiology*, 155(1):11-15.

14. **Dominici F**, Daniels M, Zeger SL, Samet JM (2002) Air Pollution and Mortality: Estimating Regional and National Dose-Response Relationships. *Journal of the American Statistical Association*, 97(457):100-111.
15. Diette GB, Krishnan J, **Dominici F**, Haponik E, Skinner EA, Steinwachs D, Wu AW (2002) Asthma in the Elderly: Factors Associated with Hospitalization. *Archives of Internal Medicine*, 162:1123-1132.
16. **Dominici F**, McDermott A, Zeger SL, Samet JM (2002) On the Use of Generalized Additive Models in Time Series Studies of Air Pollution and Health. *American Journal of Epidemiology*, 156(3):193-203.
17. **Dominici F**, McDermott A, Zeger SL, Samet JM (2003) National Maps of the Effects of Particulate Matter on Mortality: Exploring Geographical Variation. *Environmental Health Perspectives*, 111(1):39-44. PMID: 12515677, PMCID: PMC1241304, doi: 10.1289/ehp.5181.
18. Johnson E, **Dominici F**, Griswold M, Zeger SL (2003) Disease Cases and Their Medical Costs Attributable to Smoking: An Analysis of the National Medical Expenditure Survey. *The Journal of Econometrics*, 112(1):135-151.
19. Samet JM, **Dominici F**, McDermott A, Zeger SL (2003) New Problems for an Old Design: Time-Series Analyses of Air Pollution and Health. *Epidemiology*, 14(1):11-12.
20. Burnett R, Dewanji A, **Dominici F**, Cohen A, Goldberg M, Krewski D (2003) On the Relationship Between Time Series Studies, Dynamic Population Studies, and Estimating Life Lost Due to Short-Term Exposure to Environmental Risks. *Environmental Health Perspectives*, 111:1170-1174. PMCID: PMC1241570.
21. **Dominici F**, McDermott A, Samet JM, Zeger SL (2003) Airborne Particulate Matter and Mortality: Time-Scale Effects in Four US Cities. *American Journal of Epidemiology*, 157:1055-1065. (with invited commentary)
22. **Dominici F**, McDermott A, Samet JM, Zeger SL (2003) Response to Dr Smith: Timescale- Dependent Mortality Effects of Air Pollution. *American Journal of Epidemiology*, 157:1071- 1073.
23. **Dominici F** and Burnett R (2003) Risk Models for Particulate Air Pollution. *Journal of Toxicology and Environmental Health*, 66(16-19):1883-1890.
24. **Dominici F**, Sheppard L, Clyde M (2003) Health Effects of Air Pollution: A Statistical Review. *International Statistical Review*, 71(2):243-276.
25. Daniels M, **Dominici F**, Zeger SL (2004) Underestimation of Standard Errors in Multi-Site Time Series Studies of Air Pollution and Health. *Epidemiology*, 15:57-62.
26. Daniels MJ, **Dominici F**, Zeger SL, Samet JM (2004) The National Morbidity, Mortality and Air Pollutions Study, Part III: PM10 concentration-response curves and thresholds for the 20 largest US cities. *Health Effects Institute Research Report*, 94(3):1-21. (discussion 23-30)
27. **Dominici F**. Time-series analysis of air pollution and mortality: a statistical review. *Health Effects Institute Research Report*, 123:3-27. (discussion 29-33)

28. Bell M, Samet JM, **Dominici F** (2004) Time-Series Studies of Particulate Matter. *Annual Review of Public Health*, 25:247-280.
29. Jackson L, Correa A, Lees PSJ, **Dominici F**, Stewart P, Breysse PA, Matanoski G. (2004) Parental Lead Exposure and Total Anomalous Pulmonary Venous Return. *Birth Defects Research*, 70:185-193.
30. Meriardi M, Caulfield L, Zavaleta N, Figueroa A, Costigan KM, **Dominici F**, DiPietro J (2004) Randomized Controlled Trail of Prenatal Zinc Supplementation and Fetal Growth. *American Journal of Clinical Nutrition*, 79:826-830.
31. Meriardi M, Caulfield L, Zavaleta N, Figueroa A, Costigan KM, **Dominici F**, DiPietro J (2004) Randomized Controlled Trail of Prenatal Zinc Supplementation and the Development of fetal heart rate patterns. *American Journal of Obstetrics and Gynecology*, 190:1106-1112.
32. **Dominici F**, Zanobetti A, Zeger SL, Schwartz J, Samet JM (2004) Hierarchical Bivariate Time-Series Models: A Combined Analysis of the Effects of Particulate Matter on Morbidity and Mortality. *Biostatistics*, 5:341-360.
33. **Dominici F**, Cole S, Spiegelman D (2004) Methodological contributions to the American Journal of Epidemiology. *American Journal of Epidemiology*, 160:197-198.
34. Yurk RA, Diette GB, Skinner EA, **Dominici F**, Clark RD, Steinwachs DM, Wu A (2004) Predicting Patients Reported Asthma Outcomes for Adults in Managed Cares. *American Journal of Managed Care*, 11:322-328.
35. Bell M, Samet JM, McDermott A, Zeger SL, **Dominici F** (2004) Ozone and Mortality in 95 U.S. Urban Communities from 1987 to 2000. *Journal of the American Medical Association*, 292:2372-2378.
36. **Dominici F**, McDermott A, Hastie T (2004) Improved Semi-parametric Time Series Models of Air Pollution and Mortality. *Journal of the American Statistical Association*, 468:938-948.
37. Basu R, **Dominici F**, Samet JM (2005) Temperature and mortality among the elderly in the United States: a comparison of epidemiologic methods. *Epidemiology*, 16(1):58-66.
38. Huang IC, Frangakis C, **Dominici F**, Diette GB, Wu A (2005) Application of a Propensity Score Approach for Risk Adjustment in Multiple Physician Group Profiling on Asthma Care. *Health Services Research*, 40:253-278. PMID: 15663712, PMCID: PMC1361136, doi: 10.1111/j.1475-6773.2005.00352.x.
39. Huang IC, **Dominici F**, Frangakis C, Diette GB, Damberg CL, Wu A (2005) Is risk-adjustor selection more important than statistical approach for provider profiling? Asthma as an example. *Medical Decision Making*, 25:20-359.
40. Huang IC, Diette GB, **Dominici F**, Frangakis C, Wu A (2005) Variations of physician group profiling indicators. *American Journal of Managed Care*, 11:38-49.
41. Peng R, **Dominici F**, Pastor-Barriuso R, Zeger SL, Samet JM (2005) Seasonal Analyses of Air Pollution and Mortality in 100 U.S. cities. *American Journal of Epidemiology*, 161:585-594.

42. Meriardi M, Caulfield LE, Zavaleta N, Figueroa A, Costigan KA, **Dominici F**, DiPietro JA (2005) Randomized, Controlled Trial of Prenatal Zinc Supplementation and Fetal Bone Growth. *Obstetrical and Gynecological Survey*, 60:13-15.
43. Meriardi M, Caulfield LE, Zavaleta N, Figueroa A, Costigan KA, **Dominici F**, DiPietro JA (2005) Fetal growth in Peru: Comparisons with international fetal size charts and implications for fetal grow assessment. *Ultrasound in Obstetrics and Gynecology*, 2:123-128.
44. **Dominici F**, Levy J, Louis TL (2005) Methodological Challenges and Contributions in Disaster Epidemiology. *Epidemiologic Reviews*, 27:1-4.
45. Bell M, **Dominici F**, Samet JM (2005) A Meta-Analysis of Time-Series Studies of Ozone and Mortality with Comparison to the National Morbidity Mortality Air Pollution Study. *Epidemiology*, 16:436-445. PMID: 15951661, PMCID: PMC3581312, doi: 10.1097/01.ede.0000165817.40152.85 (with discussion)
46. Huang Y, **Dominici F**, Bell M (2005) Bayesian Hierarchical Distributed Lag Models for Summer Ozone Exposure and Cardio-Respiratory Mortality. *Environmetrics*, 16:547-562. PMID: 23825932, PMCID: PMC3697867, doi: 10.1002/env.721.
47. Fung KY, Krewski D, Burnett R, **Dominici F** (2005) Testing the Harvesting Hypothesis. *Journal of Toxicology and Environmental Health*, 68:1137-1154.
48. Eftim S, **Dominici F** (2005) Multi-site Time-Series Studies versus Cohort Studies: Methods, Findings, and Policy Implications. *Journal of Toxicology and Environmental Health*, 68:1191- 1205.
49. **Dominici F**, McDermott A, Daniels M, Zeger SL, Samet JM (2005) Revised Analysis of the National Morbidity, Mortality and Air Pollution Study: Mortality Among Residents of 90 Cities. *Journal of Toxicology and Environmental Health*, 68:1071-1092.
50. **Dominici F**, Cope L, Naiman D, Zeger SL (2005) Smooth Quantile Ratio Estimation (SQUARE). *Biometrika*, 92:543-557.
51. Choi L, **Dominici F**, Zeger SL (2005) Estimating Treatment Efficacy Over Time: a Logistic Regression Model for Binary Longitudinal Outcomes. *Statistics in Medicine*, 24:2789-2805.
52. **Dominici F** and Zeger SL (2005) Smooth Quantile Ratio Estimation with Regression: Estimating Medical Expenditures for Smoking Attributable Diseases. *Biostatistics*, 6:505-519.
53. **Dominici F**, Zeger SL, Parmigiani G, Katz J, Christian P (2006) Estimating Percentile-Specific Effects in Counterfactual Models: A Case Study of Micronutrient Supplementation, Birth Weight, and Infant Mortality. *Journal of the Royal Statistical Society, Series C*, 55(2):261-280.
54. Peng R, **Dominici F**, Louis T (2006) Model Choice in Multi-Site Time Series Studies of Air Pollution and Mortality. *Journal of the Royal Statistical Society, Series A* 169(2):179-203.

55. Buja A, Mastrangelo G, Perissinotto E, Rausa G, Canova C, Grigoletto F, **Dominici F** (2006) Cancer incidence among female cabin attendants: A meta-analysis of published data. *Journal of Women's Health*, 15:98-105.
56. Sapkota A, Halden R, **Dominici F**, Groopman J, Buckley T (2006) Urinary biomarkers of 1,3-butadiene in environmental settings using liquid chromatography isotope dilution tandem mass spectrometry. *Chemico-Biological Interactions*, 160:70-79.
57. **Dominici F**, Peng D, Bell M, Pham M, McDermott A, Zeger SL, Samet JM (2006) Fine Particulates Air Pollution and Hospital Admission for Cardiovascular and Respiratory Diseases. *Journal of the American Medical Association*, 295:1127-1135. PMID: 16522832, PMCID: PMC3543154, doi: 10.1001/jama.295.10.1127.
58. Katz J, Christian P, **Dominici F**, Zeger SL (2006) Treatment Effects of Maternal Micronutrient Supplementation vary by Percentiles of the Birth Weight Distribution in rural Nepal. *Journal of Nutrition*, 136:1389-1394.
59. Bell M, Peng R, **Dominici F** (2006) The Exposure-Response Curve for Ozone and Risk of Mortality and the Adequacy of Current Ozone Regulations. *Environmental Health Perspectives*, 114(4):532-536. PMID: 16581541, PMCID: PMC1440776, doi: 10.1289/ehp.8816.
60. Peng R, **Dominici F**, Zeger SL (2006) Reproducible Epidemiological Research. *American Journal of Epidemiology*, 163:783-789.
61. Symons JM, Wang L, Guallar E, Howell E, **Dominici F**, Schwab M, Ange BA, Samet JM, Ondov J, Harrison D, Geyh A (2006) A Case-Crossover Study of Fine Particulate Matter Air Pollution and Congestive Heart Failure Hospitalization. *American Journal of Epidemiology*, 164: 421-433.
62. Thomas D, Jerrett M, Kuenzli N, Louis T, **Dominici F**, Zeger SL, Schwartz J, Burnett R, Krewski D, Bates D (2007) Bayesian Model Averaging in Time-Series Studies of Air Pollution and Mortality. *Journal of Toxicology and Environmental Health*, 70(3-4):311-5.
63. Kim SR, **Dominici F**, Buckley TJ (2007) Concentrations of vehicle-related air pollutants in an urban parking garage. *Environmental Research*, 105(3):291-9. PMID: 17716646, doi: 10.1016/j.envres.2007.05.019.
64. **Dominici F**, Zeger SL, Parmigiani G, Katz J, Christian P (2007) Does the effect of micronutrient supplementation on neonatal survival vary with respect to the percentiles of the birth weight distribution? *Bayesian Analysis*, 2:1-23. (with discussion)
65. Bell M, **Dominici F**, Ebisu K, Zeger SL, Samet JM (2007) Spatial and Temporal Variation in PM_{2.5} Chemical Composition in the United States for Health Effects Studies. *Environmental Health Perspectives*, 115(7):989-995. PMID: 17637911, PMCID: PMC1913582, doi: 10.1289/ehp.9621.
66. Janes H, **Dominici F**, Zeger SL (2007) Trends in Air Pollution and Mortality: An Approach to the Assessment of Unmeasured Confounding. *Epidemiology*, 18(4):416-423. (with discussion)
67. Janes H, **Dominici F**, Zeger SL (2007) Partitioning Evidence of Association between Air Pollution and Mortality. *Epidemiology*, 18:427-428.

68. **Dominici F**, Peng RD, Zeger SL, White RH, Samet JM (2007) Particulate Air Pollution and Mortality in the United States: Have the Risks Changed from 1987 to 2000? *American Journal of Epidemiology*, 166:880-888. (with discussion)
69. **Dominici F**, Peng RD, Zeger SL, White RH, Samet JM (2007) Respond to “Heterogeneity of Particulate Matter Health Risks.” *American Journal of Epidemiology*, 166:892-893.
70. Sung RK, **Dominici F**, Buckley TJ (2007) The Influence of Vehicle Type on Mobile-Source Related Air Pollution in an Urban Parking Garage. *Environmental Research*, 105:291-299.
71. Bell M, Kim JY, **Dominici F** (2007) Potential confounding of particulate matter on the short- term association between ozone and mortality in multi-site time series studies. *Environmental Health Perspectives*, 115:1591-5. PMID: 18007990, PMCID: PMC2072830, doi: 10.1289/ehp.10108.
72. **Dominici F**, Peng R, Ebisu K, Zeger SL, Samet JM, Bell M (2007) Does the effect of PM 10 on mortality depend on PM nickel and vanadium content? A re-analysis of the NMMAPS data. *Environmental Health Perspectives*, 115:1701-3. PMID: 18087586, PMCID: PMC2137127 doi: 10.1289/ehp.10737.
73. Locke JE, Segev DL, Warren DS, **Dominici F**, Simpkins CE, Montgomery RA (2007) Outcomes of Kidneys from Donors After Cardiac Death: Implications for Allocation and Preservation. *American Journal of Transplantation*, 7(7):1797–1807.
74. Locke JE, Warren DS, **Dominici F**, Cameron AM, Leffell MS, McRann DA, Melancon JK, Segev DL, Simpkins CE, Singer AL, Zachary AA, Montgomery RA (2008) Donor Ethnicity Influences Outcomes following Deceased-Donor Kidney Transplantation in black recipients. *Journal of the American Society of Nephrology*, 19(10):2011-2019. PMID: 18650478, PMCID: PMC2551570, doi: 10.1681/ASN.2008010078.
75. **Dominici F**, Kramer S, Zambelli-Weiner (2008) The Role of Epidemiology in the Law: A Toxic Tort Litigation Case. *Law, Probability & Risk*, 7:15-34.
76. Bell M and **Dominici F** (2008) Effect Modification by Community Characteristics on the Short- Term Effects of Ozone on Mortality in 98 U.S. Communities. *American Journal of Epidemiology*, 167:986-997. PMID: 18303005, PMCID: PMC2430754, doi: 10.1093/aje/kwm396.
77. Crainiceanu CM, **Dominici F**, Parmigiani G (2008) Adjustment Uncertainty in Effect Estimation. *Biometrika*, 95:635-651.
78. Peng R, Chang H, Bell M, McDermott A, Zeger SL, Samet JM, **Dominici F** (2008) Coarse Particulate Matter Air Pollution and Hospital Admissions for Cardiovascular and Respiratory Diseases Among Medicare Patients. *Journal of the American Medical Association*, 299:2172-2179. PMID: 18477784, PMCID: PMC3169813, doi: 10.1001/jama.299.18.2172.
79. **Dominici F**, Wang C, Crainiceanu CM, Parmigiani G (2008) Model Selection and Health Effect Estimation in Environmental Epidemiology. *Epidemiology*, 19:558-560.

80. Venturini S, **Dominici F**, Parmigiani G (2008) Gamma Shape Mixtures for Heavy Tailed Distributions. *Annals of Applied Statistics*, 2:756-776.
81. Brooke SB, Bruce AP, **Dominici F**, Makary M, Pronovost P (2008) Reduction of in-hospital mortality among California Hospitals meeting Leapfrog quality standards for abdominal aortic aneurysm repair. *Journal of Vascular Surgery*, 47:1155-1156.
82. Bell ML, Ebisu K, Peng RD, Walker J, Samet JM, Zeger SL, **Dominici F** (2008) Seasonal and regional short-term effects of fine particles on hospital admissions in 202 U.S. counties, 1999- 2005. *American Journal of Epidemiology*, 168:1301-1310.
83. Eftim SE, Samet JM, Janes H, McDermott A, **Dominici F** (2008) Fine Particulate Matter and Mortality: A Comparison of the Six Cities and American Cancer Society Cohorts With a Medicare Cohort. *Epidemiology*, 19:209-216.
84. Zeger SL, **Dominici F**, McDermott A, Samet JM (2008) Mortality in the Medicare Population and Chronic Exposure to Fine Particulate Matter in urban centers (2000-2005). *Environmental Health Perspectives*, 116:1614-1619. PMID: 19079710, PMCID: PMC2599753, doi: 10.1289/ehp.11449.
85. Samoli E, Peng R, Ramsay T, Pipikou M, Touloumi G, **Dominici F**, Burnett R, Cohen A, Krewski D, Samet JM, Katsouyanni K (2008) Acute Effects of Ambient Particulate Matter on Mortality in Europe and North America: Results from the APHENA Study. *Environmental Health Perspectives*, 116(11):1480-6. PMID: 19057700, PMCID: PMC2592267, doi: 10.1289/ehp.11345.
86. Welty LJ, Peng RD, Zeger SL, **Dominici F** (2009). Bayesian distributed lag models: Estimating effects of particulate matter air pollution on daily mortality. *Biometrics*, 65:282–291.
87. Peng R, **Dominici F**, Welty L (2009) A Bayesian Hierarchical Distributed Lag Model for Constrained Distributed Lag Functions: Estimating the Time Course of Hospitalization Associated with Air Pollution Exposure. *Journal of the Royal Statistical Society, Series C*, 58:3-25.
88. Johansson MA, **Dominici F**, GE (2009) Local and global effects of climate on dengue transmission in Puerto Rico. *PLoS Neglected Tropical Diseases*, 3(2):e382. PMID: 19221592, PMCID: PMC2637540, doi: 10.1371/journal.pntd.0000382.
89. Bell ML, Ebisu K, Peng R, Samet JM, **Dominici F** (2009) Hospital Admissions and Chemical Composition of Fine Particle Air Pollution. *American Journal of Respiratory and Critical Care Medicine*, 179:1-6. PMID: 19299499, PMCID: PMC2695497, doi: 10.1164/rccm.200808-1240OC.
90. Barr C and **Dominici F** (2009) Discussion of the paper by Craigmile et al Hierarchical Model Building, Fitting, and Checking: A Behind-the-Scene look at a Bayesian Analysis of Exposure Pathways. *Bayesian Analysis*, 04:37-40.
91. **Dominici F**, Fried L, Zeger SL (2009) So Few Women Leaders: Look for the Root Causes. *Academe*, July-Aug. 2009.

92. Bell ML, Peng R, Samet JM, **Dominici F** (2009) Emergency Hospital Admissions for Cardiovascular Diseases and Ambient Levels of Carbon Monoxide: Results for 126 U.S. Urban Counties, 1999-2005. *Circulation*, 120:949-955. PMID: 19720933, PMCID: PMC2777712, doi: 10.1161/CIRCULATIONAHA.109.851113.
93. Bell ML, Ebisu K, Peng R, **Dominici F** (2009) Adverse Health Effects of Particulate Matter: Modification by Air Conditioning. *Epidemiology*, 20:682-686. PMID: 19535984, PMCID: PMC3164531, doi: 10.1097/EDE.0b013e3181aba749.
94. Peng RD, Bell ML, Geyh AS, McDermott A, Zeger SL, Samet JM, **Dominici F** (2009) Emergency admissions for cardiovascular and respiratory diseases and the chemical composition of fine particle air pollution, *Environmental Health Perspectives*, 117(6):957-963.
95. Sung K, Wipfli H, Navas-Acien A, **Dominici F**, Avila Rang E, Onicescu G, Breyse P, Samet J (2009) Determinants of Hair Nicotine Concentrations in Nonsmoking Women and Children: A Multicountry Study of Secondhand Smoke Exposure in Homes. *Cancer Epidemiology, Biomarkers & Prevention*, 18:3407-3414.
96. Caffo B, Peng R, **Dominici F** (2009) Parallel MCMC for Analyzing Distributed Lag Models With Systematic Missing Data for an Application in Environmental Epidemiology. *The Handbook of Markov Chain Monte Carlo edited by Steve Brooks, Andrew Gelman, Galin Jones and Xiao-Li Meng*.
97. White R, Cote I, Zeise L, Fox M, **Dominici F**, Burke T, White P, Hattis D, Samet JM (2009) Issues and Approaches in Low Dose–Response Extrapolation for Environmental Health Risk Assessment. *Environmental Health Perspectives*, 117(2):283-7. PMCID: PMC2649232.
98. Segal JB, Clark JM, Shore AD, **Dominici F**, Magnuson T, Richards TM, Weiner JP, Bass E, Wu AE, Makary MA (2009) Prompt Reduction in Use of Medications for Comorbid Conditions after Bariatric Surgery. *Obesity Surgery*, 19(12):1646-56.
99. Brooke SB, **Dominici F**, Makary M, Pronovost P (2009) Use of Beta-blockers during Aortic Aneurysm Repair: Bridging the Gap Between Evidence and Effective Practice. *Health Affairs (Millwood)*, 28(4):1199-209.
100. Kim S, Wipfli H, Navas-Acien A, **Dominici F**, Avila-Tang E, Onicescu G, Breyse P, Samet JM, FAMRI Homes Study Investigators (2009) Determinants of hair nicotine concentrations in nonsmoking women and children: A multicountry study of secondhand smoke exposure in homes. *Cancer Epidemiology, Biomarkers & Prevention*, 18(12):3407-14. doi: 10.1158/1055-9965.
101. Katsouyanni K, Samet JM, Anderson HR, Atkinson R, Le Tertre A, Medina S, Samoli E, Touloumi G, Burnett RT, Krewski D, Ramsay T, **Dominici F**, Peng RD, Schwartz J, Zanobetti A, HEI Health Review Committee (2009) Air pollution and health: A European and North American approach (APHENA). *Health Effects Institute Research Report*, 142:5-90.
102. Zhou Y, **Dominici F**, Louis T (2010) Racial Disparities in Mortality Rates in a Sample of the U.S. Medicare Population. *Journal of the Royal Statistical Society, Series C*, 59:319-339.

103. Barr C, **Dominici F** (2010) Cap and trade legislation: Additional Benefits from Air Pollution Mitigation. *Journal of the American Medical Association*, 303:69-70. PMID: 20051573, PMCID: PMC2913286, doi: 10.1001/jama.2009.1955.
104. Zhou Y, **Dominici F**, Louis T (2010) Smoothing Approaches for Exploring Ecological Bias. *Annals of Applied Statistics*, 4:1451-1475.
105. Pham JC, Colantuoni E, **Dominici F**, Shore A, Macrae C, Scobie S, Fletcher M, Cleary K, Goeschel C, Pronovost P (2010) The Harm Susceptibility Model: A Method to Prioritize Risks Identified in Patient Safety Reporting Systems. *Quality and Safety in Health Care*, 19(5):440-5. doi:10.1136/qshc.2009.035444.
106. Makary MA, Clarke JM, Shore AD, Magnuson T, Richards T, Bass E, **Dominici F**, Gilson MM, Weiner JP, Wu A, Segal J (2010) Medication Utilization and Annual Healthcare Costs in Patients with Type 2 Diabetes Mellitus Before and After Bariatric Surgery. *Archives of Surgery*, 145(8):726-731.
107. Ramos-Bonilla J, Breyse PN, **Dominici F**, Geyh A, Tankersley C (2010) Ambient Air Pollution Alters Heart Rate Regulation in Aged Mice. *Inhalation Toxicology*, 22(4):330-339.
108. **Dominici F**, Peng R, Barr C, Bell M (2010) Protecting Human Health from Air Pollution: Shifting from a Single Pollutant to a Multi-pollutant Approach. *Epidemiology*, 21:187-194. PMID: 20160561, PMCID: PMC3478072, doi: 10.1097/EDE.0b013e3181cc86e8. (with discussion)
109. Burke AE, Bennett W, Jamshidi R, Gilson MM, Clark JM, Segal J, Shore A, Magnuson T, **Dominici F**, Wu A, Makary MA (2010) Reduced Incidence of Gestational Diabetes with Diabetes. *Journal of the American College of Surgeons*, 211(2):169-175.
110. Janes H, **Dominici F**, Zeger SL (2010) On Quantifying the Magnitude of Confounding. *Biostatistics*, 11(3):572-82. PMID: 20203259, PMCID: PMC2883302, doi: 10.1093/biostatistics/kxq007.
111. Rava M, White R, **Dominici F** (2010) Does Attainment Status For The PM10 National Air Ambient Quality Standard Change the Trend in Ambient Levels of Particulate Matter? *Air Quality, Atmosphere & Health*, 4(2):133-143. doi: 10.1007/s11869-010-0086-3.
112. Peng R, Feder J, Tebaldi C, Bell M, **Dominici F** (2011) Towards a Quantitative Estimate of Future Heat Wave Mortality under Global Climate Change. *Environmental Health Perspectives*, 119:701-706. PMID: 21193384, PMCID: PMC3094424, doi: 10.1289/ehp.1002430.
113. Greven S, **Dominici F**, Zeger S (2011) An Approach to the Estimation of Chronic Air Pollution Effects Using Spatio-Temporal Information. *Journal of the American Statistical Association*, 106(494):396-406.
114. Chang H, Peng R, **Dominici F** (2011) Estimating the Acute Health Effects of Coarse Particulate Matter Accounting for Exposure Measurement Error. *Biostatistics*, 12(4):637-652. PMID: 21297159, PMCID: PMC3202305, doi: 10.1093/biostatistics/kxr002.

115. Bobb JF, **Dominici F**, Peng R (2011) A Bayesian Model Averaging Approach for Estimating the Relative Risk of Mortality Associated with Heat Waves in 105 U.S. Cities. *Biometrics*, 67(4):1605-1616. PMID: 21447046, PMCID: PMC3128186, doi: 10.1111/j.1541-0420.2011.01583.
116. Taylor JF **Dominici F**, Agnew J, Gerwin D, Morlock L, Miller M (2011) Do Nurse and Patient Injuries Share Common Antecedents? An Analysis of Associations with Safety Climate and Working Conditions. *BMJ Quality & Safety*, 21(2):101-11. doi: 10.1136/bmjqs-2011-000082.
117. Yeh RW, Normand SL, Wang Y, Barr CD, **Dominici F** (2012) Geographic Disparities in the Incidence and Outcomes of Hospitalized Myocardial Infarction: Does a Rising Tide Lift All Boats? *Circulation Cardiovascular Quality and Outcomes*, 5(2):197-204. PMID: 22354937, PMCID: PMC3310945, doi: 10.1161/CIRCOUTCOMES.111.962456.
118. Wang C, Parmigiani G, **Dominici F** (2012) Bayesian effect estimation accounting for adjustment uncertainty. *Biometrics*, (68)3:681-689. PMID: 22364439 doi: 10.1111/j.1541-0420.2011.01735.x.
119. Levy J, Diez D, Dou Y, Barr C, **Dominici F** (2012) A meta-analysis and multisite time-series analysis of the differential toxicity of major fine particulate matter constituents. *American Journal of Epidemiology*, 175(11):1091-1099. PMID: 22510275, PMCID: PMC3491972, doi: 10.1093/aje/kwr457.
120. Dionisio KL, Howie SRC, **Dominici F**, Fornace KM, Spengler JD, Donkor S, Chimah O, Ideh RC, Ebruke B, Adegbola RA, Ezzati M (2012) The exposure of infants and children to carbon monoxide from biomass fuels in The Gambia: a measurement and modeling study. *Journal of Exposure Science and Environmental Epidemiology*, 22(2):173-81. doi: 10.1038/jes.2011.47.
121. Dionisio KL, Howie SRC, **Dominici F**, Fornace KM, Spengler JD, Adegbola RA, Ezzati M (2012) Household concentrations and exposure of children to particulate matter from biomass fuels in The Gambia. *Environmental Science & Technology*, 46(6):19-27. PMID: 22304223, PMCID: PMC3309066, doi: 10.1021/es203047e.
122. Zigler C, **Dominici F**, Wang Y (2012) Estimating Causal Effects of Air Quality Regulations Using Principal Stratification for Spatially-Correlated Multivariate Intermediate Outcomes. *Biostatistics*, 13:289-302. PMID: 22267524, PMCID: PMC3297824, doi: 10.1093/biostatistics/kxr052. (2012 Statistics in Epidemiology Young Investigator Award)
123. Brooke SB, **Dominici F**, Pronovost P, Makary M, Schneider E, Pawlik TM (2012) Variations in surgical outcomes associated with hospital compliance with safety practices. *Surgery*, 151(5):651-659. PMID: 22261296, PMCID: PMC3414538, doi: 10.1016/j.surg.2011.12.001.
124. **Dominici F** and Mittleman M (2012) China's Air Quality Dilemma: Reconciling Economic Growth With Environmental Protection. *Journal of the American Medical Association*, 307(19):2100-2102. doi:10.1001/jama.2012.4601.
125. Barr CD, Diez DM, Wang Y, Samet JM, **Dominici F** (2012) Comprehensive smoking bans and acute myocardial infarction among Medicare patients in 387 U.S. counties: 1999 to 2008. *American Journal of Epidemiology*, 176(7):642-8. PMID: 22986145, PMCID: PMC3530376, doi: 10.1093/aje/kws267.

126. Diez DM, **Dominici F**, Zarubiak D, Levy JI (2012) Statistical approaches for identifying air pollutant mixtures associated with aircraft departures at Los Angeles International Airport. *Environmental Science & Technology*, 46(15):8229-35. doi: 10.1021/es3007172.
127. Peng RD, Samoli E, Pham L, **Dominici F**, Touloumi G, Ramsay T, Burnett RT, Krewski D, Le Tertre A, Cohen A, Atkinson RA, Anderson HR, Katsouyanni, K, Samet JM (2013) Acute effects of ambient ozone on mortality in Europe and North America: results from the APHENA study. *Air Quality, Atmosphere & Health*, 6(2):445-453. PMID: 23734168, PMCID: PMC3668792, doi: 10.1007/s11869-012-0180-9.
128. Breysse PN, Delfino RN, **Dominici F**, Elder ACP, Frampton MW, Froines JR, Geyh AJ, Godleski JJ, Gold DR, Hopke PK, Koutrakis P, Li N, Oberdörster G, Pinkerton KE, Samet JM, Utell MJ, Wexler AS (2013) U.S. EPA Particulate Matter Research Centers: Summary of Research Results for 2005–2011. *Air Quality, Atmosphere & Health*, 6(2):333-355. doi: 10.1007/s11869-012-0181-8.
129. Correia AW, Pope CA, Dockery DW, Wang Y, Ezzati M, **Dominici F** (2013) The effect of air pollution control on life expectancy in the United States: An analysis of 545 US counties for the period 2000 to 2007. *Epidemiology*, 24(1):23-31. PMID: 23211349, PMCID: PMC3521092, doi: 10.1097/EDE.0b013e3182770237.
130. Zigler CM, Watts K, Yun Wang, Coull B, **Dominici F** (2013) Model Feedback in Bayesian propensity score estimation. *Biometrics*, 69(1):263-73. PMID: 23379793, PMCID: PMC3622139. doi: 10.1111/j.1541-0420.2012.01830.x.
131. Bobb JF, **Dominici F**, Peng RD (2013) Reduced hierarchical models with application to estimating health effects of simultaneous exposure to multiple pollutants. *Journal of the Royal Statistical Society: Series C*, 62(3):451-472. PMID: 24357883, PMCID: PMC3864808, doi: 10.1111/rssc.12006.
132. Anderson B, **Dominici F**, Wang Y, McCormack MC, Bell M B, Peng RD (2013) Heat related respiratory hospitalizations and costs in the Medicare population. *American Journal of Respiratory and Critical Care Medicine*, 187(10):1098-103. PMID: 23491405, PMCID: PMC3734617, doi: 10.1164/rccm.201211-1969OC.
133. Correia AW, Wang Y, **Dominici F**, Pope CA 3rd, Dockery DW, Ezzati M (2013) “Threshold Findings” in an ecological study. *Epidemiology*, 24(4):628. PMID: 23732746, PMCID: PMC4706731, doi: 10.1097/EDE.0b013e3182953de0.
134. Bell ML, Zanobetti A, **Dominici F** (2013) Evidence on vulnerability and susceptibility to health risks associated with short-term exposure to particulate matter: A systematic review and meta- analysis. *American Journal of Epidemiology*, 178(6):865-76. PMID: 23887042, PMCID: PMC3775545, doi: 10.1093/aje/kwt090.
135. Krall J, Anderson GM, **Dominici F**, Bell ML, Peng RD (2013) Short-term exposure to particulate matter constituents and mortality in a national study of U.S. urban communities. *Environmental Health Perspectives*, 121(10):1148-53. PMID: 23912641, PMCID: PMC3801200, doi: 10.1289/ehp.1206185.
136. Mannshardt E, Susic K, Jiao W, **Dominici F**, Frey HC, Reich B, Fuentes M (2013) Comparing exposure metrics for the effects of fine particulate matter on emergency hospital admissions. *Journal of Exposure Science and Environmental Epidemiology*, 23(6):627-36. PMID: 23942393, PMCID: PMC3805672, doi: 10.1038/jes.2013.39.

137. Correia AW, Peters JL, Levy JL, Melly S, **Dominici F** (2013) Residential exposure to aircraft noise and hospital admissions for cardiovascular diseases: multi-airport retrospective study. *BMJ*, 347:f5561. PMID: 24103538; PubMed Central PMCID: PMC3805481, doi: 10.1136/bmj.f5561.
138. Kioumourtzoglou MA, Zanobetti A, Schwartz JD, Coull BA, **Dominici F**, Suh HH (2013) The effect of primary organic particles on emergency hospital admissions among the elderly in 3 US cities. *Environmental Health*, 12(1):68. PMID: 23981468, PMCID: PMC3765898, doi: 10.1186/1476-069X-12-68.
139. Arvold ND, Wang Y, Zigler C, Schrag D, **Dominici F** (2014) Hospitalization burden and survival among elderly patients with Glioblastoma. *Neuro-Oncology*, 16(11):1530-40. PMID: 24778086, PMCID: PMC4201065, doi: 10.1093/neuonc/nou060.
140. Bell MB, Ebisu K, Leaderer B, Gent J, Lee HJ, Koutrakis P, Wang Y, **Dominici F**, Peng RD (2014) Association of PM2.5 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):138-44. PMID: 24213019, PMCID: PMC3915260, doi: 10.1289/ehp.1306656.
141. Kioumourtzoglou MA, Coull B, **Dominici F**, Koutrakis P, Schwartz J, Suh HH (2014) The impact of source contribution uncertainty on the effects of source-specific PM2.5 on hospital admissions: a case study in Boston, MA. *Journal of Exposure Science and Environmental Epidemiology*, 24(4):365-71. PMID: 24496220, PMCID: PMC4063325, doi: 10.1038/jes.2014.7.
142. Zigler CM, **Dominici F** (2014) Uncertainty in propensity score estimation: Bayesian methods for variable selection and model averaged causal effects. *Journal of the American Statistical Association*, 109(505):95-107. PMID: 24696528; PMCID: PMC3969816, doi: 10.1080/01621459.2013.869498.
143. Savitz DA, Bobb J, Carr JL, Clougherty JE, **Dominici F**, Elston B, Ito K, Ross Z, Yee M, Matte TD (2014) Ambient fine particulate matter, nitrogen dioxide, and term birth weight in New York, New York. *American Journal of Epidemiology*, 179(4):457-66. doi:10.1093/aje/kwt268. PMID: 24218031; PMCID: PMC3908629, doi: 10.1093/aje/kwt268.
144. Wang Y, Schrag D, Brooks G, **Dominici F** (2014) National trends in pancreatic cancer outcomes and pattern of care among Medicare beneficiaries: 2000-2010. *Cancer*, 120(7):1050-8. PMID: 24382787, PMCID: PMC4019988, doi: 10.1002/ncr.28537.
145. Hammerling D, Cefalu M, Cisewski J, **Dominici F**, Grady A, Parmigiani G, Paulson C, Smith R (2014) Completing the results of the 2013 Boston Marathon. *PLoS One*, 9(4):e93800. PMID: 24727904; PMCID: PMC3984103. doi: 10.1371/journal.pone.0093800.
146. **Dominici F**, Greenstone M, Sunstein CR (2014) Science and Regulation. Particulate matter matters. *Science*, 344(6181):257-9. PMID: 24744361, PMCID: PMC4206184, doi: 10.1126/science.1247348.
147. Bobb J, Peng R, Bell M, **Dominici F** (2014) Heat-related mortality and adaptation to heat in the United States. *Environmental Health Perspectives*, 122(8):811-816. PMID: 24780880, PMCID: PMC4123027, doi: 10.1289/ehp.1307392.

148. Zanobetti A, **Dominici F**, Wang Y, Schwartz JD (2014) A national case-crossover analysis of the short-term effect of PM_{2.5} on hospitalizations and mortality in subjects with diabetes and neurological disorders. *Environmental Health*, 13(1):38. PMID: 24886318, PMCID: PMC4064518, doi: 10.1186/1476-069X-13-38.
149. Bell ML, Zanobetti A, **Dominici F** (2014) Who is more affected by ozone pollution? A systematic review and meta-analysis. *American Journal of Epidemiology*, 180(1):15-28. PMID: 24872350, PMCID: PMC4070938, doi: 10.1093/aje/kwu115.
150. Wu C-D, McNeely E Cedeño-Laurent JG, Pan W-C, Adamkiewicz G, **Dominici F**, Candice Lung SC, Su H-J, Spengler JD (2014) Linking student performance in Massachusetts elementary schools with the “greenness” of school surroundings using remote sensing. *PLoS One*, 9(10): e108548. PMID: 25310542, PMCID: PMC4195655, doi: 10.1371/journal.pone.0108548.
151. Obermeyer Z, Makar M, Abujaber S, **Dominici F**, Block S, Cutler DM. (2014) Association between the Medicare hospice benefit and health care utilization and costs for patients with poor-prognosis cancer. *Journal of the American Medical Association*, 312(18):1888-1896. PMID: 25387186, PMCID: PMC4274169, doi: 10.1001/jama.2014.14950.
152. Zigler CM and **Dominici F** (2014) Point: Clarifying policy evidence with potential-outcomes thinking-beyond exposure-response estimation in air pollution epidemiology. *American Journal of Epidemiology*, 180(12):1133-40. doi:10.1093/aje/kwu263. PMID: 25399414; PMCID: doi: 10.1093/aje/kwu263.
153. Bobb E, Obermeyer Z, Wang Y, **Dominici F** (2014) Cause-specific risk of hospital admission related to extreme heat in older adults. *Journal of the American Medical Association*, 312(24):2659-2667. doi: 10.1001/jama.2014.15715. PMID: 25536257; PMCID: PMC4319792, doi: 10.1001/jama.2014.15715. (Recognized in Jan. 2016 as one out of 28 NIEHS Papers of the Year)
154. Samoli E, Peng RD, Ramsay T, Touloumi G, **Dominici F**, Atkinson RW, Zanobetti A, Le Tertre A, Anderson HR, Schwartz J, et al. (2014) What is the impact of systematically missing exposure data on air pollution health effect estimates? *Air Quality, Atmosphere & Health*, 7(4):415-420. doi: 10.1007/s11869-014-0250-2.
155. Boehm Vock L, Reich BJ, Fuentes M, **Dominici F** (2015) Spatial variable selection methods for health effects of fine particulate matter components. *Biometrics*, 71(1):167-177. doi: 10.1111/biom.12254.
156. Lee KH, Haneuse S, Schrag D, and **Dominici F** (2015) Bayesian semi-parametric analysis of semi-competing risks data: investigating hospital readmission after a pancreatic cancer diagnosis. *Journal of the Royal Statistical Society: Series C*, 64(2), 253-273. (Winner of the David P. Byar Young Investigator Award for the 2013 Joint Statistical Meeting)
157. Chung Y, **Dominici F**, Wang Y, Coull BA, Bell ML (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):467-74. PMID: 25565179, PMCID: PMC4421760, doi: 10.1289/ehp.1307549.

158. **Dominici F**, Wang Y, Correia A, Ezzati M, Pope CA III, Dockery DW (2015) Chemical composition of fine particulate matter and life expectancy: In 95 US Counties Between 2002 to 2007. *Epidemiology*, 26(4):556-564. PMID:25906366 PMCID: PMC4742572, doi:10.1097/EDE.0000000000000297.
159. Venturini S, **Dominici F**, Parmigiani G (2015) Generalized quantile treatment effect: A flexible Bayesian approach using quantile ratio smoothing. *Bayesian Analysis*, 10(3):523-552. doi: 10.1214/14-BA922.
160. Kioumourtzoglou MA, Austin E, Koutrakis P, **Dominici F**, Schwartz J, Zanobetti A (2015) PM_{2.5} and survival among older adults: Effect modification by particulate composition. *Epidemiology*, 26(3):321-7. PMID: 25738903, PMCID: PMC4675621, doi: 10.1097/EDE.0000000000000269.
161. Wang C, **Dominici F**, Parmigiani G, Zigler CM (2015) Accounting for uncertainty in confounder and effect modifier selection when estimating average causal effects in generalized linear models. *Biometrics*, 71(3):654-65. PMID: 25899155; PMCID: PMC4575246, doi: 10.1111/biom.12315.
162. Cefalu M and **Dominici F** (2015) Does exposure prediction bias health-effect estimation? The relationship between confounding adjustment and exposure prediction. *Epidemiology*, 25(4):583-90. PMID: 24815302; PMCID: PMC4206696, doi: 10.1097/EDE.0000000000000099.
163. **Dominici F** and Cefalu M (2015) Confounding adjustment and exposure prediction in environmental epidemiology: Additional insights. *Epidemiology*, 26(2):e28. PMID: 25643119. PMCID: PMC5509939, doi: 10.1097/EDE.0000000000000231.
164. Bell M, Son JY, Peng R, Wang Y, **Dominici F** (2015) Ambient PM_{2.5} and risk of hospital admissions: Do risks differ for men and women? *Epidemiology*, 26(4):575-9. PMID: 25906368, PMCID: PMC4452416, doi: 10.1097/EDE.0000000000000310.
165. Savitz DA, Elston B, Bobb JF, Clougherty JE, **Dominici F**, Ito K, Johnson S, McAlexander T, Ross Z, Schmoor JLC, Matte TD, Wellenius GA (2015) Ambient fine particulate matter, nitrogen dioxide, and hypertensive disorders of pregnancy in New York City. *Epidemiology*, 26(5):748-757. PMID: 26237745, PMCID: PMC4719124, doi: 10.1097/EDE.0000000000000349.
166. Swedler DI, Simmons MM, **Dominici F**, Hemenway D (2015) Firearm prevalence and homicides of law enforcement officers in the United States. *American Journal of Public Health*, 105(10):2042-8. PMID: 26270316, PMCID: PMC4566543, doi: 10.2105/AJPH.2015.302749.
167. Shmoor JL, Bobb JF, Elston B, Savitz DA, Ross Z, Matte TD, Johnson S, **Dominici F**, Clougherty JE (2015) Area-level socioeconomic deprivation, nitrogen dioxide exposure, and term birth weight in New York City. *Environmental Research*, 142:624-32. doi: 10.1016/j.envres.2015.08.019. PMID: 26318257, PMCID: PMC4715366, doi: 10.1016/j.envres.2015.08.019.
168. Kioumourtzoglou MA, Schwartz J, Weisskopf M, Melly S, Wang Y, Dominici F, Zanobetti (2016) Long-term PM_{2.5} exposure and neurological hospital admissions in the Northeastern United States. *Environmental Health Perspectives*, 124(1):23-9. PMID: 25978701, PMCID: PMC4710596. DOI: 10.1289/ehp.1408973.

169. Kioumourtzoglou MA, Schwartz J, James P, **Dominici F**, Zanobetti A (2016) PM_{2.5} and mortality in 207 US cities: Modification by temperature, population and city characteristics. *Epidemiology*, 27:221-227. PMID: 26600257, PMCID: PMC4748718, DOI: 10.1097/EDE.0000000000000422.
170. Wasfy JH, **Dominici F**, Yeh RW (2016) Letter by Wafsy et al regarding article “Facility level variation in hospitalization, mortality, and costs in the 30 days following percutaneous coronary intervention: Insights on short-term healthcare value from the Veterans Affairs Clinical Assessment, Reporting, and Tracking System (VA CART) Program” *Circulation*, 133(5):3376. PMCID: PMC4827713
doi: 10.10.1161/CIRCULATIONAHA.115.017851.
171. Johnson S, Bobb JF, Ito K, Savitz DA, Elston B, Shmool J L, **Dominici F**, Ross Z, Clougherty JE & Matte T (2016) Ambient Fine Particulate Matter, Nitrogen Dioxide, and Preterm Birth in New York City. *Environmental Health Perspectives*. PMID: 26862865, PMCID: PMC4977049, doi: 10.1289/ehp.1510266.
172. Lee KH, **Dominici F**, Schrag D, & Haneuse S (2016). Hierarchical models for semi-competing risks data with application to quality of end-of-life care for pancreatic cancer. *Journal of the American Statistical Association*, doi: 10.1080/01621459.2016.1164052.
173. Patel CJ, **Dominici F** (2016) Comment: Addressing the Need for Portability in Big Data Model Building and Calibration. *Journal of the American Statistical Association* (111) 513. doi: 10.1080/01621459.2016.1149406.
174. Liu JC, Mickley LJ, Sulprizio MP, **Dominici F**, Yue X, Ebisu K, Anderson GB, Khan RFA, Bravo MA, Bell ML (2016) Particulate pollution from wildfires in the Western US under climate change. *Climatic Change*, doi: 10.1007/s10584-016-1762-6.
175. Wang Y, Bobb JF, Papi B, Wang Y, Kosheleva A, Di Q, Schwartz JD, **Dominici F** (2016) Heat Stroke Admissions during Heat Waves in 1,916 US Counties for the period from 1999 to 2010 and Their Effect Modifiers. *Environmental Health*, 15:83 doi: 10.1186/s12940-016-0167-3. PubMed PMID: 27503399; PubMed Central PMCID: PMC4977899.
176. Bravo MA, Ebisu K, Wang Y, **Dominici F**, Peng RD, Bell ML (2016) Airborne fine particles and risk of hospital admissions for cardiovascular and respiratory diseases: effects by urbanicity and short-term cumulative exposures. *Environmental Health Perspectives*, 125(4), 594–601. <http://doi.org/10.1289/EHP257>.
177. Liu JC, Wilson A, Mickley LJ, Ebisu K, Wang Y, Sulprizio MP, Peng RD, Yue X, Son J-Y, Anderson GB, **Dominici F**, Bell ML (2016) Wildfire-specific Fine Particulate Matter and Risk of Hospital Admissions in Urban and Rural Counties. *Epidemiology*. PMID: 27648592; PMCID: PMC5130603 doi: 10.1097/EDE.0000000000000556.
178. Cefalu M, **Dominici F**, Arvold N, Parmigiani G (2016) A Model averaged double robust estimator. *Biometrics*. PMID: 27893927, PMCID: PMC5466877, doi: 10.1111/biom.12622.

179. Liu JC, Wilson, A, Mickley LJ, Ebisu K, Wang Y, Yue X, Payer M, Peng RD, **Dominici F**, Bell ML (2017). Who among the elderly is most vulnerable to exposure and health impacts of PM_{2.5} from wildfire smoke? *American Journal of Epidemiology*. 186(6):730-735. PMID: 28525551, PMCID: PMC5860049, doi: 10.1093/aje/kwx141 doi: 10.1093/aje/kwx141.
180. Arvold ND, Cefalu M, Wang Y, Zigler C, Schrag D, **Dominici F** (2016) Comparative Effectiveness of Radiotherapy With vs. Without Temozolomide in Older Patients with Glioblastoma. *Journal of Neuro-Oncology*, 1-11. PMID: 27770280; PMCID: PMC5303537, doi: 10.1007/s11060-016-2294-7.
181. Bobb J, Ho K, Yeh RW, Harrington L, Zai A, McKenna J, Liao K, **Dominici F** (2016) Time-course of Cause-Specific Hospital Admissions during Snowstorms: An Analysis of Electronic Medical Records from Major Hospitals in Boston. *American Journal of Epidemiology* PMID: 28137774, PMCID: PMC5860478, doi: 10.1093/aje/kww219.
182. Wasfy JH, Zigler CM, Choirat C, Wang Y, **Dominici F**, Yeh RW (2016) Readmission Rates After Passage of the Hospital Readmissions Reduction Program: A Pre-Post Analysis. *Annals of Internal Medicine*. PMID: 28024302, PMCID: PMC5507076, doi: 10.7326/M16-0185.
183. Liu J, Mickley L, Sulprizio M, Yue X, Peng R, **Dominici F**, Bell M (2016) Future respiratory hospital admissions from wildfire smoke under climate change in the Western US. *Environmental Research Letters*, 11(12), 124018. <http://doi.org/10.1088/1748-9326/11/12/124018>.
184. Antonelli JL, Zigler CM, **Dominici F** (2017) Guided Bayesian imputation to adjust for confounding when combining heterogeneous data sources in comparative effectiveness research. *Biostatistics*. PMID: 28334230, PMCID: PMC5862356, doi: 10.1093/biostatistics/kxx003.
185. Berman JD, Ebisu K, Peng RD, Wang Y, **Dominici F**, Bell ML (2017) Drought and the Risk of Hospital Admissions and Mortality in Older Adults in Western USA from 2000 to 2013: a retrospective study. *The Lancet Planetary Health*, Volume 1, Issue 1, e17-e25. PMID: 29057392, PMCID: PMC5646697, doi: 10.1016/S2542-5196(17)30002-5.
186. Venturini S, Franklin JM, Morlock L. **Dominici F** (2017) Random effects models for identifying the most harmful medication errors in a large, voluntary reporting database. *The Annals of Applied Statistics*, 11(2); 504-526. doi: 10.1214/16-AOAS974, *Student Paper Award Winner, 2009 Eastern North American Region/International Biometric Society*, © Institute of Mathematical Statistics, 2017.
187. Braun D, Gorfine M, Parmigiani G, Arvold N, **Dominici F**, Zigler C (2017) Propensity scores with Misclassified Treatment Assignment: A Likelihood-Based Adjustment. *Biostatistics*, 18(4), 695-710. PMID: 28419189, PMCID: PMC5862346, doi: 10.1093/biostatistics/kxx014.
188. Makar M, Antonelli JL, Di Q, Cutler D, Schwartz J, **Dominici F** (2017) Estimating the Causal Effect of Lowering Particulate Matter Levels below the United States Standards on Hospitalization and Death. *Epidemiology*.28(5), 627-634. <http://doi.org/10.1097/EDE.0000000000000690>.

189. Di Q, Wang Y, Zanobetti A, Wang Y, Koutrakis P, **Dominici F**, Schwartz J (2017) Air Pollution and Mortality in the Medicare Population. *New England Journal of Medicine*, 376:2513-2522. PMID: 28657878, PMCID: PMC5766848, doi: 10.1056/NEJMoa1702747.
190. Di Q, Dai L, Wang Y, Zanobetti A, Choirat C, Schwartz JD, **Dominici F** (2017) Association of Short-term Exposure to Air Pollution With Mortality in Older Adults. *JAMA*. 2017;318(24):2446–2456. PMID: 29279932, PMCID: PMC5783186, doi:10.1001/jama.2017.17923.
191. **Dominici F**, Zigler CM (2017) Best practices for gauging evidence of causality in air pollution epidemiology. *American Journal of Epidemiology*, September 2017. PMID: 29020141, PMCID: PMC5860368, doi: 10.1093/aje/kwx307.
192. Zigler CM, Choirat C, **Dominici F** (2017) Impact of National Ambient Air Quality Standards nonattainment designations on particulate pollution and health. *Epidemiology*. 2018 Mar;29(2):165-174. PMID: 29095246, PMCID: PMC5792368, doi: 10.1097/EDE.0000000000000777.
193. Diddier P, Zhong J, Colicino E, Zanobetti A, Schwartz J, Dagincourt N, Fang SC, Kloog I, Zmuda JM, Holick M, Herrera LA, Hou L, **Dominici F**, Bartali B, Baccarelli AA. (2017). Association of Air Particulate Pollution with Bone Loss over Time and Bone Fracture Risk: analysis of data from two independent studies. *The Lancet Planetary Health*, 1(8); e337-e347. PMID: 29527596, PMCID: PMC5841468, doi: 10.1016/S2542-5196(17)30136-5.
194. Hopp S, **Dominici F**, Bobb JF. (2018) Medical diagnoses of heat wave-related hospital admissions in older adults. *Preventive Medicine. Volume 110, May 2018, Pages 81-8*. PMID:29428173, PMCID: PMC6040588. doi:10.1016/j.ypmed.2018.02.001.
195. Wilson A, Zigler CM, Patel CJ, **Dominici F**. Model-averaged confounder adjustment for estimating multivariate exposure effects with linear regression (2018) *Biometrics*, 74(3): 1034–1044. PMID: 29569228, PMCID: PMC6518418, doi: 10.1111/biom.12860.
196. Cutler D, **Dominici F** (2018) A Breath of Bad Air: Trump Environmental Agenda May Lead to 80 000 Extra Deaths per Decade. *Journal of American Medical Association. JAMA*. 2018;319(22):2261-2262. doi:10.1001/jama.2018.7351.
197. Antonelli JL, Parmigiani G, **Dominici F**. (2018) High dimensional confounding adjustment using continuous spike and slab priors. *Bayesian Analysis* Volume 14, Number 3 (2019), 805-828. PMID: 32431779, PMCID: PMC7236769, doi: 10.1214/18-ba1131.
198. Wu X, Braun D, Kioumourtzoglou MA, Choirat C, Di Q, and **Dominici F** (2018) Causal inference in the context of an error prone exposure: air pollution and mortality. *The Annals of Applied Statistics* 2019, Vol. 13, No. 1, 520–547. *arXiv:1712.00642*. <https://doi.org/10.1214/18-AOAS1206> PMID: 31649797, PMCID: PMC6812524, doi: 10.1214/18-AOAS1206.
199. Haneuse S, **Dominici F**, Normand SL, Schrag D (2018) Assessment of between hospital variation in readmission and mortality after cancer surgical procedures. *JAMA Network Open*, 1(6):e183038. doi:10.1001/jamanetworkopen.2018.3038.

200. Jiang F, Yin G, **Dominici F** (2018) Bayesian Model Selection Approach to Boundary Detection with Non-Local Priors, Neural Information Processing Systems NIPS. *Advances in Neural Information Processing Systems* (pp. 1974-1983)
201. Jiang F, Yin G, **Dominici F** (2019) Bayesian Model Selection Approach to Multiple Change-Points Detection with Non-Local Prior Distributions. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 13 (5); 1-17.
202. Rhee J, **Dominici F**, Zanobetti A, Schwartz J, Wang Y, Di Q, Christiani D (2019) Impact of Long-Term Exposures to Ambient PM_{2.5} and Ozone on Acute Respiratory Distress Syndrome (ARDS) Risk for Older Adults in the United States. *CHEST*. 156(1);71-79. PMID: 30926395, PMCID: PMC6607425 <https://doi.org/10.1016/j.chest.2019.03.017>.
203. Schwartz JD, Yang W, Yitshak-Sade M, Dominici F, Zanobetti A (2018) Estimating the Effects of PM2.5 on Life Expectancy using Causal Modeling Methods. *Environmental Health Perspectives*, 126(12). PMID: 30675798, PMCID: PMC6371682, DOI: 10.1289/EHP3130. <https://doi.org/10.1289/EHP3130>.
204. Anderson GB, Barnes EA, Bell ML, **Dominici F** (2019) The future of climate epidemiology: Opportunities for advancing health research in the context of climate change. *American Journal of Epidemiology*, 188(5) 866–872. PMID: 30877291, PMCID: PMC6494666, <https://doi.org/10.1093/aje/kwz034>
205. Jhun I, Kin J, Cho B, Gold D, Schwartz J, Coull B, Zanobetti A, Rice MB, Mittleman MA, Garshick E, Vokonas P, Bind MB, Wilker EH, **Dominici F**, Suh H, Koutrakis P (2019) Synthesis of Harvard EPA Center Studies on Traffic-Related Particulate Pollution and Cardiovascular Outcomes in the Greater Boston Area. *Journal of the Air & Waste Management Association*. 69:8, 900-917, PMID: 30888266, PMCID: PMC6650311, doi.org/10.1080/10962247.2019.1596994
206. Goldman G, **Dominici F** (2019) Don't abandon evidence and process on air pollution policy. *Science*. 363(6434):1398-1400, PMID: 30898845, doi: 10.1126/science.aaw9460.
207. Nethery RC, **Dominici F** (2019) Estimating pollution-attributable mortality at the regional and global scales: challenges in uncertainty estimation and causal inference. *European Heart Journal*, 40(20) 1597–1599. PMID: 31004133, PMCID: [PM6528153](https://doi.org/10.1093/eurheartj/ehz200). <https://doi.org/10.1093/eurheartj/ehz200>
208. Yitshak-Sade M, Bloomberg AJ, Zanobetti A, Schwartz JD, Coull BA, Kloog I, **Dominici F**, Koutrakis P (2019) County-level radon exposure and all-cause mortality risk among Medicare beneficiaries. *Environment International*. PMID: 31200153, PMCID: PMC6679989. <https://doi.org/10.1016/j.envint.2019.05.059>
209. Gilstrap L, **Dominici F**, Wang Y, El-Sady MS, Singh A, Di Carli MF, Falk R, Dorbala S (2019) Epidemiology of Cardiac Amyloidosis among Fee-for-Service Medicare Beneficiaries in the United States. *Circulation Heart Failure*. 12(6):e005407. PMID: 31170802, PMCID: PMC6557425, doi: 10.1161/CIRCHEARTFAILURE.118.005407.
210. Heo S, Amrutsari NS, Lee K, Benmarhnia T, **Dominici F**, Bell M L (2019) The use of a Quasi-Experimental Study on the Mortality Effect of a Heat Wave Warning System in South Korea. *IJERPH* 16(12), 2245. PMID: 31242672; PMCID: PMC6617315, doi: [10.3390/ijerph16122245](https://doi.org/10.3390/ijerph16122245).

211. Lee M, Schwartz J, Wang Y, **Dominici F**, Zanobetti A (2019) Long-term effect of fine particulate matter on hospitalization with dementia. *Environmental Pollution*. 254(A) 112926. PMID: 31404729 doi: 10.1016/j.envpol.2019.07.094
<https://doi.org/10.1016/j.envpol.2019.07.094>.
212. Wei Y, Wang Y, Di Q, Choirat C, Wang Y, Koutrakis P, Zanobetti A, **Dominici F**, Schwartz J (2019) Short term exposure to fine particulate matter and hospital admission risks and costs in the Medicare population: time stratified, case crossover study. *BMJ* 2019;367:l6258 | PMID: 31776122, PMCID: PMC6880251, doi: 10.1136/bmj.l6258. **Best Environmental Epidemiology Paper (BEEP) in International Society Environmental Epidemiology 2020.**
213. Mezzetti M, Palli D, **Dominici F** (2019) Combining individual and aggregated data to investigate the role of socio-economic disparities on cancer burden in Italy. *Statistics in Medicine*. PMID: 31746020, PMCID: 7939453, doi: 10.1002/sim.8392.
<https://doi.org/10.1002/sim.8392>
214. Nethery R, Mealli F, **Dominici F** (2019) Estimating Population Average Causal Effects in the Presence of Non-Overlap: A Bayesian Approach. *The Annals of Applied Statistics*, 13(2), 1242-1267. PMID: 31346355, PMCID: PMC6658123, doi: 10.1214/18-AOAS1231.
215. Nethery R, Yang Y, Brown A, Latham D, **Dominici F** (2019) A causal inference framework for cancer cluster investigations with Bayesian estimation of causal standardized incidence ratios using publicly available data. *Journal of the Royal Statistical Society*. <https://doi-org.ezp-prod1.hul.harvard.edu/10.1111/rssa.12567>
216. Thomas E, Jayabalasingham B, Collins T, Feertzen J, Bui C, **Dominici F** (2019) Gender disparities in invited commentary authorship in 2,459 medical journals. *JAMA*,2(10):e1913682. PMID: 31642926, PMCID: PMC6820037, doi:10.1001/jamanetworkopen.2019.13682.
217. Laurent JGC, Allen JG, McNeely, E, **Dominici F**, Spengler JD (2019) Influence of the Residential Environment on Undergraduate Students' Health. *Journal of Exposure Science and Environmental Epidemiology*, 30(2):320-327. PMID: 31796873, PMCID: PMC7044021, doi: 10.1038/s41370-019-0196-4.
218. Fisher A, Rudin A, **Dominici F** (2019) All Models are Wrong, but Many are Useful: Learning a Variable's Importance by Studying an Entire Class of Prediction Models Simultaneously; *Journal of Machine Learning Research* (177):1–81, 2019.
<http://jmlr.org/papers/v20/18-760.html>
219. Carone M, **Dominici F**, Sheppard L (2020) In Pursuit of Evidence in Air Pollution Epidemiology: The Role of Causally Driven Data Science. *Epidemiology*. 31(1):1-6. PMID: 31430263, PMCID: PMC6889002. doi: 10.1097/EDE.0000000000001090.
220. Thomas EG, Trippa L, Parmigiani G, & **Dominici F** (2020) Estimating the Effects of Fine Particulate Matter on 432 Cardiovascular Diseases Using Multi-Outcome Regression With Tree-Structured Shrinkage, *Journal of the American Statistical Association*, doi: [10.1080/01621459.2020.1722134](https://doi.org/10.1080/01621459.2020.1722134).
221. Papadogeorgou G, **Dominici F** (2020) A Causal Exposure Response Function with Local Adjustment for Confounding. *Annals of Applied Statistics*, 14(2): 850-871. PMID: 33649709, PMCID: PMC7914396, DOI: 10.1214/20-aos1330

222. Wadhera RK, Wang Y, Figueroa JF, **Dominici F**, Yeh RW, Joynt Maddox KE. (2020) Mortality and Hospitalizations for Dually Enrolled and Nondually Enrolled Medicare Beneficiaries Aged 65 Years or Older, 2004 to 2017. *Journal of American Medical Association*. 2020;323(10):961-969. PMID: 32154858, PMCID: PMC7064881, doi:10.1001/jama.2020.1021.
223. Wasfy JH, Bhambhani V, Healy EW, Choirat C, **Dominici F**, Wadhera RK, Shen C, Wang Y, Yeh RW (2019) Relative Effects of the Hospital Readmissions Reduction Program on Hospitals That Serve Poorer Patients. *Medical Care*. 2019;57(12):968-976. PMID: 31567860, PMCID: PMC6856430, doi:10.1097/MLR.0000000000001207.
224. Buckee CO, Balsari S, Chan J, Crosas M, **Dominici F**, Gasser U, Grad YH, Grenfell B, Halloran ME, Kraemer MUG, Lipsitch M, Metcalf CJE, Meyers LA, Perkins TA, Santillana M, Scarpino SV, Viboud C, Wesolowski A, Schroeder A. (2020) Aggregated mobility data could help fight COVID-19. *Science* 10;368(6487):145-146. PMID: 32205458, doi: 10.1126/science.abb8021.
225. Nethery R, Mealli F, Sacks J, **Dominici F** (2020) Causal inference and machine learning approaches for evaluation of the health impacts of large-scale air quality regulations. *Journal of the American Statistical Association*, PMID: 33424062 PMCID: PMC7788006. <https://doi.org/10.1080/01621459.2020.1803883>.
226. Rhee J, Dominici F, Zanobetti A, Schwartz J, Wang Y, Di Q, Christiani DC (2020). Risk of acute respiratory distress syndrome among older adults living near construction and manufacturing sites. *Epidemiology*, 31(4):468-477. PMID: 32483064, PMCID: PMC7744113, doi: 10.1097/EDE.0000000000001195.
227. Rhee J, **Dominici F**, Zanobetti A, Schwartz J, Wang Y, Di Q, Christiani DC. Association of Neighborhood Socioeconomic Status with Hospital Admissions for Acute Respiratory Distress Syndrome (ARDS) among Older Adults in the United States. *Plos One*, under review.
228. Wu X, Braun D, Schwartz J, Kioumourtoglou M, **Dominici F** (2020). Evaluating the Impact of Long-term Exposure to Fine Particulate Matter on Mortality Among the Elderly, *Science Advances*, *Science Advances*. 17;6(29):eaba5692. PMID: 32832626, PMCID: PMC7439614, doi: 10.1126/sciadv.aba5692.
229. Wei Y, Wang Y, Wu X, Di Q, Shi L, Koutrakis P, Zanobetti A, **Dominici F**, Schwartz J (2020) Causal effects of air pollution on mortality in Massachusetts. *American Journal of Epidemiology*, PMID: 32558888, PMCID: PMC7604530, doi: 10.1093/aje/kwaa098.
230. Lee K, Small D, **Dominici F** (2021) Discovering Heterogeneous Exposure Effects Using Randomization Inference in Air Pollution Studies. *Journal of the American Statistical Association*, pp.1-33.
231. Shi L, Wu X, Yazdi M, Braun D, Awad YA, Wei Y, Liu P, Di Q, Wang Y, Schwartz J, **Dominici F**, Kioumourtoglou MA, Zanobetti A (2020) Long-term Effects of Fine Particulate Matter on Neurological Disorders in the US Medicare Population: A Nationwide Analysis, *Lancet Planetary Health*. doi: [https://doi.org/10.1016/S2542-5196\(20\)30227-8](https://doi.org/10.1016/S2542-5196(20)30227-8).

232. Yitshak-Sade M, Nethery R, Schwartz J, Mealli F, **Dominici F**, Di Q, Abu Awad Y, Ifergane G, and Zanobetti A (2020) PM2.5 and Hospital Admissions Among Medicare Enrollees with Chronic Debilitating Brain Disorders. *Science of the Total Environment*. 755(2); 142524. PMID: 33065503, PMCID: PMC7749824. <https://doi.org/10.1016/j.scitotenv.2020.142524>.
233. Parks RM, Anderson GB, Nethery RC, Navas-Acien A, **Dominici F**, Kioumourtzoglou MA (2021). Tropical cyclone exposure is associated with increased hospitalization rates in older adults, *Nature Communications*, 12:1545. <https://doi.org/10.1038/s41467-021-21777-1>.
234. Yan M, Wilson A, **Dominici F**, Wang Y, Al-Hamdan M, Crosson W, Schumacher A, Guikema S, Magzamen S, Peel JL, Peng RD, and Anderson GB (2021) Tropical cyclone exposures and risks of emergency Medicare hospital admission for cardiorespiratory diseases in 175 urban United States counties, 1999–2010. *Epidemiology*. ePub Ahead of Print. doi: 10.1097/EDE.0000000000001337.
235. deSouza P, Braun D, Parks RM, Schwartz J, **Dominici F**, Kioumourtzoglou MA. Nationwide Study of Short-Term Exposure to Fine Particulate Matter and Cardiovascular Hospitalizations among Medicaid Enrollees. *Epidemiology*. 2020 Sep 28. doi: 10.1097/EDE.0000000000001265. Epub ahead of print. PMID: 33009251, PMCID: PMC7896354, DOI: 10.1097/EDE.0000000000001265.
236. Weinberger KR, Kulick ER, Boehme A, Sun S, **Dominici F**, Wellenius GA. (2021 accepted). Association Between Hurricane Sandy and Emergency Department Visits In New York City By Age and Cause. *American Journal of Epidemiology*, (in press)kwab127, <https://doi.org/10.1093/aje/kwab127>
237. Pozzer A, **Dominici F**, Haines A, Witt C, Münzel T, Lelieveld J (2020) Regional and global contributions of air pollution to risk of death from COVID-19. *Cardiovascular Research*, cvaa288, PMID: 33236040, PMCID: [PMCID: PMCID: PMC7797754](https://doi.org/10.1093/cvr/cvaa288), <https://doi.org/10.1093/cvr/cvaa288>
238. Son JY, Sabath MB, Lane KJ, Miranda ML, **Dominici F**, Di Q, Schwartz J, Bell ML (2021). Long-term exposure to PM2.5 and risk of mortality for the older population: Effect modification by residential greenness. *Epidemiology*, ePub ahead of print, doi: 10.1097/EDE.0000000000001348.
239. Schwartz J, Di Q, Weeberb JR, **Dominici F**, Zanobetti A, A Direct Estimate of the impact of PM_{2.5}, NO₂, and O₃ Exposure on Life Expectancy using Propensity Scores. *Epidemiology*, in press.
240. Heibati B, Wang W, Ryti N, **Dominici F**, Ducatman A, Zhang Z, Jaakkola J, (2021) Weather conditions and COVID-19 incidence in a cold climate: A time-series study in Finland, *Frontiers in Public Health, section Planetary Health*, 08:605128, doi: 10.3389/fpubh.2020.605128
241. Antonelli J, Papadogeorgou G, **Dominici F** (2020) Causal Inference in high dimensions: A marriage between Bayesian modeling and good frequentist properties, *Biometrics*, PMID: 33349923, <https://doi.org/10.1111/biom.13417>

242. Wu X, Nethery RC, Sabath MB, Braun D, and **Dominici F** (2020). Air pollution and COVID-19 mortality in the United States: Strengths and limitations of an ecological regression analysis. *Science advances*, 6(45), p.eabd4049. PMID: 33148655, PMCID: PMC7673673, DOI: 10.1126/sciadv.abd4049
243. Schwartz J, Wei Y, Yitshak-Sade M, Di Q, **Dominici F**, Zanobetti A (2020), A National Difference in Differences Analysis of the Effect of PM_{2.5} on Annual Death Rates, *Environmental Research*, PMID: 33385394, DOI: <https://doi.org/10.1016/j.envres.2020.110649>
244. Dey T, **Dominici F**. COVID-19, Air Pollution, and Racial Inequity: Connecting the Dots. *Chem Res Toxicol*. 2020 Dec 30. doi: 10.1021/acs.chemrestox.0c00432. Epub ahead of print. PMID: 33377385, PMCID: PMC7805604, DOI: 10.1021/acs.chemrestox.0c00432.
245. Carlsen HK, Valdimarsdóttir U, Briem H, **Dominici F**, Finnbjornsdottir RG, Jóhannsson T, Aspelund T, Gislason T, Gudnason T (2021) Severe volcanic SO₂ exposure and respiratory morbidity in the Icelandic population—a register study. *Environmental Health*;20(1):1-2. <https://doi.org/10.1186/s12940-021-00698-y>
246. Yazdi MD, Wang Y, Di Q, Wei Y, Requia WJ, Shi L, Sabath MB, **Dominici F**, Coull BA, Evans JS, Koutrakis P, and Schwartz JD (2021) Long-Term Association of Air Pollution and Hospital Admissions Among Medicare Participants Using a Doubly Robust Additive Model. *Circulation*, 143:00-00. doi: 10.1161/CIRCULATIONAHA.120.050252
247. Carlsen HK, Ilyinskaya E, Baxter PJ, Schmidt A, Thorsteinsson T, Pfeffer MA, Barsotti S, **Dominici F**, Finnbjornsdottir RG, Jóhannsson T, Aspelund T. (2021) Increased respiratory morbidity associated with exposure to a mature volcanic plume from a large Icelandic fissure eruption. *Nature Communications*, 12: 2161. <https://doi.org/10.1038/s41467-021-22432-5>.
248. Wei Y, Yazdi MD, Di Q, Requia WJ, **Dominici F**, Zanobetti A, Schwartz J (2021) Emulating causal dose-response relations between air pollutants and mortality in the Medicare population. *Environ Health* 20, 53. <https://doi.org/10.1186/s12940-021-00742-x>.
249. Klompaker J, Hart JE, Holland I, Sabath BM, Wu X, Laden F, **Dominici F**, James P (2021) County-level exposures to greenness and associations with COVID-19 incidence and mortality in the United States. *Environmental Research* (in press).

SUBMITTED ARTICLES:

1. Chang H, Peng R, **Dominici F** (2014) Bayesian model averaging for clustered data. *Bayesian Analysis (Student Paper Award Winner, 2009 Eastern North American Region/International Biometric Society, Student Paper Award Winner, 2009 American Statistical Association Health Policy & Statistics Section's)*
2. Wang Y, Wilson A, Wang C, Fong KC, Kosheleva A, Kloog I, Schwartz J, **Dominici F**. (2017). Accounting for Uncertainty in Confounders and Effect Modifier Selection while Estimating Average Causal Effect of Maternal Exposure to PM_{2.5} on Birth Weight. *American Journal of Epidemiology* (under revision).
3. Evans K, **Dominici F**, Tchetgen Tchetgen E. (2017). An Extended Propensity Score Approach to Account for Missing Confounders When Estimating Causal Effects. *Biometrics* (under revision).

4. Choirat C, Papadogeorgou G, Zigler C, **Dominici F**, Mealli F, Wasfy JH (2018) Causal Impact of the Hospital Readmissions Reduction Program on Hospital Readmissions and Mortality. *Statistics in Medicine* (submitted). <http://arxiv.org/abs/1809.09590>
5. Wilker E, Zanobetti A, Di Q, Wang Y, Schwartz J, **Dominici F** (2018) Green Space, 30 Day Readmissions and Mortality Following Ischemic Stroke. *American Journal of Epidemiology* (submitted).
6. Sabath MB, Di Q, Braun D, Dominici F, Choirat C. aipred: A Flexible R Package Implementing Methods for Predicting Air Pollution. <https://arxiv.org/abs/1805.11534>
7. Wu X, Mealli F, Kioumourtzoglou MA, Dominici F, Braun D. Matching on Generalized Propensity Scores with Continuous Exposures. <https://arxiv.org/pdf/1812.06575.pdf> (under revision).
8. Yan M, Wilson A, Dominici F, Wang Y, Crosson W, Guikema S, Magzamen S, Peel J, Peng R, Anderson G B. (2020) Tropical cyclone exposures and risks of emergency Medicare hospital admission for cardiorespiratory diseases in 175 United States counties, 1999–2010. (submitted).
9. Lee K, Bargagli-Stoffi F, Dominici F (2020) Causal Rule Ensemble: interpretable inference of heterogeneous treatment effects (submitted).
10. Dominici F, Stoffi FB, Mealli F (2020) From controlled to undisciplined data: estimating causal effects in the era of data science using a potential outcome framework, <https://arxiv.org/abs/2012.06865> (submitted).
11. Chakraborty S, Dey T, Yoonbae J, Lim C, Mukherjee A, Dominici F. A spatio-temporal analytical outlook of the exposure to air pollution and COVID-19 mortality in the United States (submitted).
12. Dey T, Lee J, Chakraborty S, Zhang K, Chandra J, Bhaskar A, Bhaskar A, and Dominici F. Lag Time between State-level Policy Interventions and Changepoints in COVID-19 Outcomes in the United States (submitted).
13. Wu X, Weinberger KR, Wellenius GA, Dominici F, Braun D. (2021) Assessing the causal effects of a stochastic intervention in time series data: Are heat alerts effective in preventing deaths and hospitalizations? <https://arxiv.org/abs/2102.10478> (submitted).
14. Lee K, Dominici F (2021) Accounting for recall bias in case-control studies: a causal inference approach. arXiv:2102.10537 (submitted).
15. Zhou X, Josey K, Kamareddine L, Caine MC, Liu T, Mickley LJ, Cooper M, Dominici F (2021) Excess of COVID-19 Cases and Deaths due to Fine Particulate Matter Exposure During the 2020 Wildfires in the United States. *Science Advances* (under revision).
16. Jbaily A, Zhou X, Liu J, Lee TH, Kamareddine L, Verguet S, Dominici F (2021) Racial and income disparities in ambient exposure to fine particulate matter in the United States: a data science perspective. *Nature* (under revision).

BOOKS:

1. Peng R and **Dominici F** (2008) *Statistical Methods for Environmental Epidemiology with R: A Case Study in Air Pollution and Health*. Springer, NY.

BOOK CHAPTERS, MONOGRAPHS, PEER-REVIEWED REPORTS:

1. **Dominici F** (1994) *Partial Sufficiency* (in Italian), Laurea (MS) Dissertation, Publications of the Department of Statistics, Probability and Applied Statistics, Thesis Publication, University La Sapienza, Rome, Italy.
2. **Dominici F** (1994) *Discriminant Analysis*, Chapter 6 of *Handbooks of the Summer School of Statistics*, no 6, University L. Bocconi, Milan.
3. Committee to Assess Potential Health Effects from Exposures to PAVE PAWS Low-Level Phased-Array Radiofrequency Energy, National Research Council: *An Assessment of Potential Health Effects from Exposure to PAVE PAWS Low-Level Phased-Array Radiofrequency Energy*, (2005) The National Academies of Science, Washington DC.
4. Samet JM, **Dominici F**, Zeger SL, Dockery D, Schwartz J (2000) *The National Morbidity, Mortality, and Air Pollution Study Part I: Methods and Methodological Issues*, Number 94, The Health Effects Institute, Cambridge, MA.
5. Samet JM, Zeger SL, **Dominici F**, Curriero F, Coursac I, Dockery D, Schwartz J, Zanobetti A (2000) *The National Morbidity, Mortality, and Air Pollution Study Part II: Morbidity and Mortality from Air Pollution in the United States*, Number 94, The Health Effects Institute, Cambridge, MA.
6. Diette GB, Skinner EA, **Dominici F**, Clark R, Steinwachs DM, Wu AW (2000) *The 1998 Asthma Outcome Survey, Phase I*. The Pacific Business Group on Health and Health Net, San Francisco, CA.
7. **Dominici F** and Parmigiani G (2000) *Combining Studies with Continuous and Dichotomous Responses: A Latent Variables Approach*, in *Doing and Understanding Meta-analysis*, (Edited by Berry D.A. and Stangl D.), Marcel Dekker, NY.
8. Zeger SL, **Dominici F**, McDermott A, Samet JM (2004) *Modeling the Health Effects of Environmental Exposures: Particulate Air Pollution and Mortality in Urban America*, in *Monitoring the Health of Populations: Statistical Methods for Public Health Surveillance*, (Edited by Brookmeyer R. and Stroup D.), Oxford University Press.
9. **Dominici F**, McDermott A, Daniels M, Samet JM, Zeger SL (2003) *A Special Report to the Health Effects Institute on the Revised Analyses of the NMMAPS II Data*, The Health Effects Institute, Cambridge, MA.
10. Daniels M, **Dominici F**, Samet JM, Zeger SL (2004) *The National Morbidity, Mortality, and Air Pollution Study Part III: Estimating PM10-Mortality Dose-Response Curves and Threshold Levels: An Analysis of Daily Time-Series for the 20 Largest US Cities*, The Health Effects Institute, Cambridge, MA.

11. **Dominici F** (2004) Time Series Analysis of Air Pollution and Mortality: A Statistical Review. Final Report on the Walter A. Rosenblith New Investigator Award, The Health Effects Institute, Cambridge, MA.
12. **Dominici F**, Zanobetti A, Zeger SL, Schwartz J, Samet JM (2005) The National Morbidity, Mortality, and Air Pollution Study Part IV: Hierarchical Bivariate Time Series Models: A Combined Analysis of the Effects of Particulate Matter on Morbidity and Mortality, The Health Effects Institute, Cambridge, MA.
13. Bell M, **Dominici F**, McDermott A, Zeger SL, Samet JM (2005) Multi-Site Time-Series Analysis of Ozone and Mortality in 95 U.S. Cities from 1987 to 2000: Results from the National Morbidity Mortality Air Pollution Study. Final Report to the Environmental Protection Agency.
14. Zeger SL, McDermott A, **Dominici F**, Peng R, Samet JM (2005) Internet-based Health and Air Pollution Surveillance System (iHAPSS), The Health Effects Institute, Cambridge, MA.
15. University Committee on the Status of Women (2006) Vision 2020. Office of the Provost, Johns Hopkins University.
16. Committee on the Gulf War and Health: Review of the Medical Literature Relative to Gulf War Veteran's Health (2006), The National Academies of Science, Washington DC.
17. Committee on "The Utility of Proximity-Based Herbicide Exposure Assessment in Epidemiologic Studies of Vietnam Veterans." (2008) The National Academies of Science, Washington, DC.
18. Committee on "Review of ATSDR's Great Lakes Report Drafts" (2008) Letter Report, The National Academies of Science, Washington, DC.
19. Committee on "Secondhand Smoke Exposure and Cardiovascular Effects: Making Sense of the Evidence" (2009) The National Academies of Science, Washington, DC.
20. Committee on "Long-Term Health Consequences of Exposure to Burn Pits in Iraq and Afghanistan" (2011) The National Academies of Science, Washington, DC.
21. Committee on "Research Directions in Human Biological Effects of Low Level Ionizing Radiation", (2014) The National Academies, Washington, DC.
22. Zigler CM, Kim C, Choirat C, Hansen JB, Wang Y, Hund L, Samet JM, King G, and **Dominici F** (2016) Causal Inference Methods for Estimating Long-Term Health Effects of Air Quality Regulations. The Health Effects Institute, Cambridge, MA. <http://pubs.healtheffects.org/view.php?id=453>
23. Wilson A, **Dominici F** (2016) Statistical Methods for Environmental Epidemiology, Chapman and Hall Handbook Series.
24. **Dominici F**, Schwartz J, Di Q, Braun, Choirat C, Zanobetti A. Assessing Adverse Health Effects of Long-Term Exposure to Low Levels of Ambient Air Pollution: Phase 1. [Res Rep Health Eff Inst](#). 2019 Nov;(200):1-51.

OTHER:

1. **Dominici F**, Samet JM, Zeger SL (1999) Particulate Air Pollution and Daily Mortality: Combining Time series Information from Eight US Cities, Proceedings of Statistics Canada Symposium 99, Combining Data from Different Sources, Ottawa, Canada.
2. **Dominici F**, Daniels M (2000) Hierarchical Non-Parametric Poisson Models in Environmental Epidemiology: Investigating the Association between Particulate Matter and Mortality, Proceedings of the Third Colloquium on Particulate Air Pollution and Human Health, Abstract 102, Inhalation Toxicology, Volume 12, Supplement 2.
3. Daniels M, **Dominici F**, Samet JM, Zeger SL (2001) Reply to the letter of Tobias A. and Saez M. on Estimating PM10-Mortality Dose-Response Curves and Threshold Levels: An Analysis of Daily Time-Series for the 20 Largest US Cities, *American Journal of Epidemiology*, Volume 153(10):10, 1027-10.
4. Samet JM, **Dominici F**, Zeger SL. (2002). Reply to the letter of Palmer P. and Seville D. on Toxicity of Fine Particles, *Epidemiology*, Volume 13:241-242.
5. Potter DEB, Lau DT, **Dominici F**. (2002). Characteristics of Nursing Home Residents with Item Non Response in Their Prescribed Medicine Data: Analyzing the 1996 Medical Expenditure Panel Survey Nursing Home Component, Proceedings for the 2002 Joint Statistical Meeting of the American Statistical Association, Aug., New York, NY.
6. Fung K, Krewski D, Burnett R, **Dominici F**. Testing the Harvesting Hypothesis by Time Domain Analysis, Proceedings for the 2002 Colloquium of the Network for Environmental Risk Assessment and Management (NERAM-II), November, Baltimore MD.
7. **Dominici F**, Peng D, Bell M, Pham M, McDermott A. Zeger SL, Samet JM. (2006) Reply to Letters by Drs. Ricci and Thurston on the article: Particles, Air Pollution and Hospital Admission for Cardiovascular and Respiratory Diseases, *Journal of the American Medical Association*.
8. Cefalu M and **Dominici F**. (2016) Authors' response to Goldberg et al. "Does Exposure Prediction Bias Health-Effect Estimation? The Relationship Between Confounding Adjustment and Exposure Prediction." *Epidemiology* (to appear)
9. M. Benjamin Sabath, MA; Qian Di, ScD; Joel Schwartz, PhD; Danielle Braun, PhD; Francesca Dominici, PhD; Christine Choirat, PhD. Proceedings of the 5th IEEE International Conference on Data Science and Advanced Analytics. Presented at <https://dsaa2018.isi.it/home>, Oct 1-4 2018, Turin, Italy

ACTIVE AND PENDING GRANTS

ACTIVE

R01ES026217 (Zigler) 02/01/2016-01/31/2021

NIH

Causal Inference with Interference for Evaluating Air Quality Policies

Role: Co-Investigator

P50MD010428 (Laden/ Levy) 07/24/2015-05/31/2020

NIH/NIMHD

Disparities in Exposure and Health Effects of Multiple Environmental Stressors Across the Life Course

Role: Co-Investigator

83615601 (Laden) 07/01/2015-06/31/2020

EPA

Disparities in Exposure and Health Effects of Multiple Environmental Stressors Across the Life Course

Role: Co-Investigator

4953-RFA14-3/16-4 (Dominici/Zanobetti) 02/01/2016 - 01/31/2020

HEI

Assessing Adverse Health Effects of Long-Term Exposure to Low Levels of Ambient Pollution

Role: PI

83587201-0 (Koutrakis) 12/01/2015 – 11/30/2020

EPA

Regional Air Pollution Mixtures: The Past and Future Impacts of Emission Controls and Climate Change on Air Quality and Health

Role: Co-Investigator

DP2MD012722 (Rose) 09/01/2017-06/30/2022

NIH

Machine Learning for Health Outcomes and Quality of Care in Low-Income Populations

Role: Co-Investigator

R01ES028033 (Laden) 12/15/2017-11/30/2022

NIH

Relationship Between Multiple Environmental Exposures and CVD Incidence and Survival: Vulnerability and Susceptibility

Role: PI

R01MD012769 (Bell) 09/26/2017 – 06/30/2022

NIH

Environmental Health Disparities in an Older Population.

Role: Consortium PI

NIH

Disease Outcomes in Older adults under extreme Heat, Air pollution and Medication use (DO-NO-HARM)

Role: Consortium PI

P30ES000002 (Weisskopf) 11/01/2020 – 10/31/2021

NIH/NIEHS

Air pollution, race, and health outcomes for COVID-19 in the United States: data science methods and dissemination

Curriculum Vitae: Francesca Dominici, Ph.D.

2020 Star Friedman Award 07/01/2020 – 06/30/2021

Harvard University

Air pollution, race, and health outcomes for COVID-19 in the United States: data access, methods, and dissemination

Kioumourtzoglou 07/01/2018 – 06/30/2023

NIH

Integrating air pollution prediction models: Uncertainty quantification and propagation in health studies

Role: Consortium PI

: PI

DR. FRANCESCA DOMINICI
Curriculum Vitae: Part II

TEACHING

ADVISEES AT JOHNS HOPKINS

Pre-doctoral students in Biostatistics (Primary advisor, Hopkins):

Sorina Eftim, PhD candidate, 2003-2006, completed

Sergio Venturini, PhD candidate, Visiting Scholar from Bocconi University, Italy (*Awarded in 2008 as the best Italian PhD Thesis*)

Yijie Zhou, PhD candidate, 2004-2007, completed

Howard Chang, PhD candidate, 2006-2010, completed (*ENAR 2008 Student Travel Award*)

Jessica Myer, PhD candidate, 2007-2010, completed (*ENAR 2008 Student Travel Award*)

Jennifer Bobb, PhD candidate, 2008-2010, completed (*ENAR 2010 Student Travel Award*)

Post-doctoral fellows in Biostatistics (Primary advisor, Hopkins):

Michelle Bell, PhD, 2002-2003, Professor, Yale University

Roger Peng, PhD, 2003-2005, Associate Professor, Johns Hopkins University

Holly Janes, PhD, 2005-2007, Assistant Professor, University of Washington Seattle

Sonja Greven, PhD, 2008-2009, Assistant Professor, University of Munich

Christopher D. Barr, PhD, 2008-2010, Assistant Professor, Harvard University

Statistical Advisor of PhD students from Other Departments (Hopkins):

Mario Meriardi, PhD International Health 2001 Rupa Basu, PhD Epidemiology 2002

I-Chan Huang, PhD Health Policy and Management 2003

Leila Jackson, PhD Epidemiology 2003 Leslie Cope, PhD Mathematical Sciences 2003

Morel Symons, PhD Epidemiology 2005

Sung Roul Kim, PhD Environmental Health Science 2006

Hari Nathan, MD, Clinical Research Scholar Programs, Department of Surgery, 2007

Suzanna Nazarian, MD, Clinical Research Scholar Programs, Department of Surgery, 2007

MPH Students (Hopkins):

Jayne Locke, MD, Resident, Department of Surgery, Johns Hopkins Hospital (MPH Capstone Award Winner, 2006)

Lia Clattenburg, Student, School of Medicine, Johns Hopkins Hospital, 2006

Jose Rodriguez-Paz MD, Department of Anesthesiology, Johns Hopkins Hospital 2007

Robert Meguid MD, Department of Surgery, Johns Hopkins Hospital 2007

Jeff Schoenborn BS, Battelle Memorial Institute, Arlington VA 2008

Final Oral Participation (Hopkins):

Karlynn Heiner, ScM Biostatistics, 1998

Huey-Fang Sun, PhD Mental Hygiene 2000

Paul Muntner, PhD Epidemiology 2000

Rupa Basu, PhD Epidemiology 2001

Mario Meriardi, PhD International Health 2001

Denys Lau, PhD Health Policy and Management 2002

I-Chan Huang, PhD Health Policy and Management 2003

Leila Jackson, PhD Epidemiology 2003

Leslie Cope, PhD Mathematical Sciences 2003

Samuel Mills, PhD Population and Family Health Science 2004

Amir Sapkota, PhD Environmental Health Science 2005

Morel Symons, PhD Epidemiology 2005

Sung Roul Kim, PhD Environmental Health Science 2006

Yingkai Cheng, PhD Epidemiology 2006 Arantxa, Conchero, PhD Epidemiology 2007

Jennifer Taylor, PhD Health Policy and Management 2007
Yijie Zhou, PhD Biostatistics 2007
Nicole Cardello, PhD Environmental Health Science 2007
Michael Johansson, PhD, Molecular Biology and Immunology 2008
Lilly Engineer, PhD, Health Policy and Management 2008
Kenny Shum, PhD, Biostatistics 2008
Juan Ramos-Bonilla, Environmental Health Sciences 2009
Howard Chang, Biostatistics 2009
Lydia Isaac, Health Policy and Management 2009

ADVISEES AT HARVARD

Co-Director of Training Grant in Environmental Biostatistics (Brent Coull, PI)

Undergraduate students in Statistics (Primary Advisor):

Uggi Lee: 2012-2013
Barrett Jansen: 2014-2015
Kaela Nelson: 2018-2019
Tara Ippolito: 2018-2019

Pre-doctoral students in Biostatistics (Primary Advisor):

Andrew Correia, PhD candidate, 2010-2013
Krista Watts, PhD candidate, 2011-2013
Matt Cefalu PhD candidate, 2011-2013
Joseph Antonelli PhD candidate, 2013-2015
Elisabeth Smoot PhD candidate, 2014-2015
Tai Cai, PhD candidate, 2014-2017
Yeting Du, PhD candidate, 2016-2017 (not primary)
Georgia Papadogeorgou, PhD candidate, 2014-2018
Emma Thomas, PhD candidate, 2017-2020
Shirley Liao, PhD candidate, 2018-2019
Xiao Wu, PhD candidate, 2017-2021
Irina Degtiar, PhD candidate, 2017-2021
Yue Yang, PhD candidate, 2020-Present
Jenny Lee, PhD candidate, 2020-Present

Post-doctoral fellows in Biostatistics (Primary Advisor):

Yeonsung Chang, PhD, 2010-2011, Assistant Professor, Seoul University
Yiping Dou, PhD, 2010, Scientist at Yahoo
David Diez, PhD, 2010-2012, Google
Lauren Hund, PhD, 2012-2013, Statistician, Sandia National Laboratories
Dhruv Sharma, PhD, 2011-2012, Michigan State University
Corwin Zigler, PhD, 2010-2013, Assistant Professor, Biostatistics, SPH
Matt Cefalu, PhD, 2013-2014, Rand
Jennifer F Bobb, PhD, 2011-2015, Group Health Research Institute
Fei Jiang, PhD, 2013-2015, University of South Carolina
Fred Cudhea PhD, 2013-2015, Tufts University
Kyu Ha Lee, PhD, 2011-2015, The Forsyth Institute, Harvard School of Public Health
Danielle Braun PhD, 2013-2017, Harvard School of Public Health
Ander Wilson, PhD, 2014-2017,
Chanmin Kim PhD, 2014-2018
Joseph Antonelli PhD, 2015-2018
Aaron Fisher PhD, 2016-2019
Kwonsang Lee PhD, 2017-2019

Rachel Nethery PhD, 2017-2019, Harvard School of Public Health
Boyu Ren, PhD, 2017-2020
Xiao Wu, PhD, 2021-Present
Falco Bargagli Stoffi, 2020-Present
Kevin Josey, 2020-Present

Statistical Advisor of PhD students from Other Departments

Kathie Dionisio, PhD, Department of Global Health and Population, 2010
Peter James, PhD, Environmental Health, 2011
Marianthi-Anna Kioumourtzoglou, PhD, Environmental Health, 2013
Mercedes Bravo, PhD, Yale School of Forestry and Environmental Studies, 2013
Memo-Cedeno Laurent, PhD, Environmental Health, 2014
Yan Wang, PhD, Environmental Health, 2017
Qian Di, PhD, Environmental Health, 2017
Jong Eun Rhee, Environmental Health, 2017

Other

Jason H. Wasfy, M.D., M.Phil, Massachusetts General Hospital, 2016
Recipient of the KL2/Catalyst Medical Research Investigator Training (CMeRIT) award

Final Oral Participation (PhD):

Kathie Dionisio, Environmental Health, 2011
Mariel Finucane, Biostatistics, 2011
Peter James, Epidemiology, 2012
Richard White, Biostatistics, 2012
Marianthi-Anna Kioumourtzoglou, Environmental Health, 2013
Mathieu Maheu-Girox, Global Health and Population, 2013
Frederick Cudhea, Biostatistics, 2013
Memo-Cedeno Laurent, PhD, Environmental Health, 2014
Mathieu Maheu-Giroux, PhD, Global Health Population, 2014
Elisabeth Smoot, PhD, Biostatistics, 2015
Joseph Antonelli, PhD, Biostatistics, 2015

K99 Advisees

Xabier Adrian Garcia-De-Albeniz, MD, PhD, Harvard TH Chan School of Public Health, 2016
Peter James, ScD, Harvard TH Chan School of Public Health, 2016
Gitanjali Singh, PhD, Tufts University Friedman School of Nutrition Science & Policy, 2016
Mercedes Bravo, PhD, U. of Michigan School of Natural Resources and Environment, 2016
Brooke Anderson, PhD, University of Colorado, 2017
Kelvin Fong, PhD, School of Forestry and Environmental Studies, Yale University, 2020
Seulkee Heo, PhD, School of Forestry and Environmental Studies, Yale, University, 2020
Rachel Nethery, PhD, Harvard TH Chan School of Public Health, 2020
Briana Stephenson, PhD, Harvard TH Chan School of Public Health, 2020