

Dr.ssa Francesca Dominici

Department of Biostatistics, Harvard T.H. Chan School of Public Health
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Istruzione e Formazione

- Master of Public Health (Honoris Causa), Harvard T.H. Chan School of Public Health, Harvard University, 2009
- Ph.D. in Statistica, Università di Padova, Italia, 1997
- Laurea in Statistica, Università La Sapienza, Roma, Italia, 110/110 (con lode), 1993

Aree di Ricerca

Statistica bayesiana, inferenza causale, intelligenza artificiale/machine learning, cambiamento climatico, epidemiologia ambientale, politiche sanitarie, scienze della vita

Esperienza Professionale

- Direttrice, Harvard Data Science Initiative, Harvard University, 2017–Presente
- Clarence James Gamble Professor of Biostatistics, Population Health, and Data Science; Faculty Affiliate, Dept. of Environmental Health, Harvard T.H. Chan School of Public Health, 2009–Presente
- Collaboratrice, Forbes, 2024–presente
- Senior Associate Dean for Research, Harvard T.H. Chan School of Public Health, 2013–2017
- Associate Dean of Information Technology, Harvard T.H. Chan School of Public Health, 2011–2013
- Professoressa Ordinaria, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, 2007–2009

- Professoressa Associata, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, 2002–2007
- Incarico Congiunto, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, 2001–2009
- Professoressa Assistente, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, 1999–2002
- Visiting Assistant Professor, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, 1997–1999
- Visiting Scholar, Institute of Statistics and Decision Science, Duke University, 1995–1997

Leadership Accademica

- Membro, Presidential Nomination MIT President Visiting Committee, MIT Institute for Data, Systems, and Society, 2024–Presente
- Faculty Associate, Harvard Global Health Institute, 2024–Presente
- Faculty Associate, Harvard Center of International Development, 2024–Presente
- Membro del Comitato Direttivo, Kempner Institute for the Study of Natural and Artificial Intelligence, Harvard University
- Membro del Comitato Direttivo, #metoo Digital Media Project, Radcliffe Institute, Harvard University
- Faculty Associate, Salata Institute for Climate and Sustainability, Harvard University, 2021–Presente
- Membro del Comitato Direttivo, Harvard Library, 2020–Presente
- Membro del Comitato Direttivo, Institute of Quantitative Social Science, Harvard University, 2015–Presente
- Direttrice, National Studies on Air Pollution and Health (NSAPH) Group, Harvard T.H. Chan School of Public Health, 2010–Presente
- Co-Direttrice del Programma, Environmental Stats Training Grant, Harvard T.H. Chan School of Public Health, 2018–2022

Servizio Universitario

- University Council on Research Computing (Presidente: James Waldo, Harvard CTO), 2011–Presente
- Harvard Academic Computing (Presidente: Anne Margulies, Harvard CIO), 2011–Presente
- Professorial Review Committee (Presidente: James Kasser, Harvard Medical School), 2015–2016
- Big Data Planning Committee (Presidente: Richard McCullough, Harvard VP of Research), 2014–2017
- Membro, Ad Hoc Committee to Advise the Dean for Tenured Appointments, Harvard Medical School, 2012
- Membro, Ad Hoc Committee to Advise the Provost for Tenured Appointments, Harvard School of Public Health, 2012
- Presidente, Ad Hoc Committee to Advise the Provost for Tenured Appointments, Harvard School of Public Health, 2011

Copertura Stampa (Selezionata)

- "Most New England States Don't Track Heat-Related Deaths. Experts Say That's a Problem." WBUR, 31 agosto 2023
- "Cleaner Air Helps Everyone. It Helps Black Communities a Lot." New York Times, 23 marzo 2023
- "Even Low Levels of Soot Can Be Deadly to Older People, Research Finds." New York Times, 26 gennaio 2022
- "Wildfire Smoke Linked to Higher COVID-19 Death Rates." National Geographic, 13 agosto 2021
- "Air Pollution Kills Millions Every Year, Like a 'Pandemic in Slow Motion'." National Geographic, 16 marzo 2021
- "Pollution Made COVID-19 Worse. Now, Lockdowns are Clearing the Air." National Geographic, 8 aprile 2020
- "Covid-19 Death Rate Rises in Counties with High Air Pollution, Study Says." CNN, 7 aprile 2020
- "U.S. Air Pollution Still Kills Thousands Every Year, Study Concludes." NPR, 28 giugno 2017

Attività Professionali

Appartenenze e Leadership in Società Scientifiche

- Fellow Eletta, International Society of Bayesian Analysis
- Fellow Eletta, Institute of Mathematical Statistics
- Membro Eletto, National Academy of Medicine
- Fellow Eletta, American Statistical Association
- International Biometric Society
- International Society for Environmental Epidemiology
- Membro del Comitato di Programma, Junior Researcher Workshop, International Biometric Society – ENAR Spring Meeting, Washington, DC, 2003
- Membro del Comitato di Programma, International Biometric Society – ENAR Spring Meeting, Washington, DC, 2002
- Presidente, Program Committee (Junior Researcher Workshop), International Biometric Society – ENAR Spring Meeting, Washington, DC, 2002

Partecipazione a Comitati Consultivi

- Membro dell'Advisory Board, Harvard Data Science Review, lug 2019–Presente
- Membro del Comitato Consultivo Scientifico, Solutions for Energy, AiR, Climate, and Health Center (EPA Air, Climate, and Energy Center), Yale University, ago 2016–Presente
- Membro del Medical Advisory Board, RAPIDSOS Inc., gen 2016–Presente
- Membro del John B. Little International Scientific Advisory Board, Harvard T.H. Chan School of Public Health, ott 2015–Presente
- Membro dello Scientific Advisory Board, Radiation Effects Research Foundation, giu 2014–giu 2022
- Presidente, NIH Biostatistical Methods and Research Design Study Section (BMRD), Center for Scientific Review, lug 2017–lug 2018
- Membro, Centre of Environmental Health Research Advisory Council, Public Health Foundation of India, mag 2016–2019
- Membro, 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, National Academy of Sciences, gen 2015–gen 2016
- Membro del National Advisory Committee, Statistical and Applied Mathematical Sciences Institute, gen 2015–2019
- Membro del Research Committee, Health Effects Institute, nov 2014–nov 2022
- Membro Ad Hoc Committee, JPB Environmental Health Fellows Program, apr 2014–2016
- Membro, Institute of Medicine Committee: Research on Health Effects of Low-Level Ionizing Radiation Exposure (AFRRI), National Academy of Sciences, apr 2013–giu 2014
- Membro del Review Panel, Advising Deans (NCSU CPMS/CALS/Graduate School), Dept. of Statistics, North Carolina State University, 2013
- Membro, NIH BMRD Study Section, Center for Scientific Review, lug 2012–2016
- Membro, Institute of Medicine Committee on Gulf War and Health: Long-Term Effects of Blast Exposures, National Academy of Sciences, giu 2012–ago 2013
- Presidente, External Review Committee, Dept. of Biostatistics, Mailman School of Public Health, Columbia University, mag 2012
- Membro dell'External Advisory Board, Southern California Environmental Health Sciences Center, 2011–2017
- Membro, Institute of Medicine Committee to Review the Federal Response to the Health Effects Associated with the Gulf of Mexico Oil Spill, National Academy of Sciences, set 2010–apr 2011
- Membro, Institute of Medicine Committee on Long-Term Health Consequences of Exposure to Burn Pits in Iraq and Afghanistan, National Academy of Sciences, feb 2010–apr 2011

Leadership e Diversità

- Presidente, Committee for the Advancement of Women Faculty, Harvard T.H. Chan School of Public Health, ago 2015–2017
- Partecipante, Executive Program on Negotiation and Leadership, Harvard Law School Executive Education, 18-20 maggio 2015
- Panelist, "Lessons on Leadership: Defying Gender Stereotypes in the Workplace," Harvard T.H. Chan School of Public Health, mar

2014

- Panelist, "Having it All: Weighting to Achieve Balance," ENAR, International Biometric Society, mar 2014
- Partecipante, New Faculty Panel Discussion, Office of Faculty Development and Diversity, Harvard University, 2013
- Co-Presidente, Committee for the Advancement of Women Faculty, Harvard T.H. Chan School of Public Health, 2012–ago 2015
- Leader, Committee on the Concerns of Women Panel, "Imperfect Balance," Harvard University, 2012
- Autrice, "So Few Women Leaders," American Association of University Professors, 2009
- Diversity Recognition Award, President of Johns Hopkins University, 2009
- Co-Presidente (con Linda P. Fried), University Committee on the Status of Women, Johns Hopkins University, 2005–2009

Consulenze

- Litigation: Kerr et al. vs. Aerojet General Corporation (Neuroblastoma Incidence Analysis), Chino Hills, CA, 2005
- National Academy of Sciences Committee on Research Priorities for Airborne Particulate Matter, 2002
- Clean Air Act Advisory Committee, U.S. EPA, 2002
- Pacific Business Group on Health: The 1998 Asthma Outcome Survey, 1998
- Kaiser Permanente: Morbidity and Mortality Associated with Air Pollution among California Members, 1998
- Litigation: Magaly Pinares et al. vs. United Technologies Corporation, Pratt & Whitney Group, mag 2018
- Litigation: Boggs, Charles v. BP (Deepwater Horizon, Case No. 16-cv-13476, The Downs Law Group), 2022–Presente

Testimonianze

- Maryland State Committee on House Economic Matters: Health Effects of Particulate Matter and Ozone, 2005
- Maryland State Committee on Education, Health, and Environmental Affairs: Health Effects of Particulate Matter and

Ozone, 2005

Attività Editoriali

Comitati Editoriali

- Co-Editor in Chief, Harvard Data Science Review
- Senior Editor, Chapman & Hall/CRC Texts in Statistical Science Series
- Associate Editor, Journal of the Royal Statistical Society, 2011–2015
- Editor, American Journal of Epidemiology (Statistical Methodology), 2002–2007

Peer Review (Riviste Selezionate)

American Journal of Epidemiology; Biometrics; Biostatistics; 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; Nature

Revisione Ad Hoc di Proposte

- NIH BMRD Study Section, CSR (1 lug 2012–30 giu 2018)
- U.S. Environmental Protection Agency
- Health Effects Institute, Boston, MA
- National Institutes of Health (NIH)
- National Institute of Environmental Health Sciences (NIEHS)
- Retirement Research Foundation
- Proposte di libri: John Wiley & Sons; Springer

Riconoscimenti e Premi

Riconoscimenti

- Nominata tra le TIME 100 Most Influential People in Global Health, 2024
- Una delle quattro scienziate al mondo nominate dagli editori di Science come pioniera nella scienza dei dati e scienziana da tenere d'occhio, 2024; Top 50 donne più potenti in Italia 2024

- NIEHS Key Paper of the Year: "Air Pollution and Mortality at the Intersection of Race and Social Class," NEJM, 2023
- NIEHS Key Paper of the Year: "Association of Tropical Cyclones with County-Level Mortality in the US," JAMA, 2022
- NIEHS Key Paper of the Year: "Air Pollution Exposure Disparities across US Population and Income Groups," Nature, 2022
- NIEHS Key Paper of the Year: "Tropical Cyclone Exposure is Associated with Increased Hospitalization Rates in Older Adults," Nature Communications, 2021
- NIEHS Key Paper of the Year: "Excess of COVID-19 Cases and Deaths due to Fine Particulate Matter Exposure during the 2020 Wildfires in the United States," Science Advances, 2021
- Membro Eletto, International Society of Mathematical Statistics, 2020
- Clarivate Highly Cited Researcher (top 1% mondiale), 2019
- Presidential Invited Address, International Biometric Society – ENAR, 2019
- Membro Eletto, National Academy of Medicine, 2018
- Riconosciuta tra le prime 10 scienziate italiane nelle scienze biomediche a livello mondiale, 2016
- NIEHS Paper of the Year (Menzione d'Onore): "Cause-specific Risk of Hospital Admission Related to Heat in Older Adults," JAMA 2015
- Clarivate Highly Cited Researcher (top 1% mondiale), 2015
- Wierman Distinguished Lecture, Johns Hopkins University, 2015
- Best Environmental Epidemiology Papers (Menzione d'Onore): "Residential Exposure to Aircraft Noise and Hospital Admissions for Cardiovascular Diseases," BMJ, 2013
- Speaker, Mathematics for Planet Earth 2013 Simons Foundation Public Lecture Series (SAMSI), 2013
- Keynote Speaker, Environmental Health Day, University of Michigan, 2011
- Dean's Lecture, Bloomberg School of Public Health, Johns Hopkins University, 2007
- Fellow, Johns Hopkins Center of Excellence in Public Health Tracking (CDC), 2005
- Fellow Eletta, American Statistical Association, 2005
- Keynote Speaker, Royal Statistical Society, Londra, 2002

Premi

- Mosteller Statistician of the Year, Boston Chapter of the American Statistical Association (per contributi eccezionali alla statistica e al servizio), 2022
- Star-Friedman Challenge Award for Promising Scientific Research, Harvard University (ricerca ad alto rischio e alto impatto), 2020
- Karl E. Peace Award for Outstanding Statistical Contributions for the Betterment of Society, American Statistical Association, 2020
- Jerome Sacks Award for Cross-Disciplinary Research, American Statistical Association, 2020
- Janet L. Norwood Award for Outstanding Achievement by a Woman in the Statistical Sciences, University of Alabama, 2016
- Florence Nightingale David Award (COPSS and Caucus for Women in Statistics), 2015
- Diversity Recognition Award, Johns Hopkins University, 2009
- Myrto Lefkopoulou Distinguished Lectureship, Harvard University, 2007
- Gertrude Cox Award, Washington DC Chapter of the ASA and RTI International, 2007
- Mortimer Spiegelman Award, American Public Health Association (Statistics Section), 2006
- Young Investigator Award for Best Paper of the Year, ASA Section on Statistics in Epidemiology, 2001
- Walter A. Rosenblith New Investigator Award (borsa triennale), Health Effects Institute, 1999–2002
- Student Award, International Biometric Society – ENAR, 1998
- Borsa Triennale e Premio per Studio e Ricerca all'Estero, Dipartimento di Statistica, Università di Padova, Italia, 1994–1997

Finanziamenti Competitivi (Selezionati)

1. P30ES000002 (Weisskopf) 11/2020 – 11/2021. NIH/NIEHS. Air Pollution, Race, and Health Outcomes for COVID-19 in the United States: Data Science Methods and Dissemination. Ruolo: PI.
2. 1RF1AG074372-01A1 (Patel, Dominici, Estiri) 06/2022 – 05/2025. NIH. The Confluence of Extreme Heat/Cold on the Health and

- Longevity of an Aging Population with Alzheimer's and Related Dementia. Ruolo: Co-PI.
3. 1R01MD016054-01A1 (Bell, Deziel) 07/2022 – 03/2027. NIH. Air Pollution, Heat, Cold, and Health: Disparities in the Rural South. Ruolo: PD/PI.
 4. 1R01ES034373-01 (Zanobetti, Braun) 09/2022 – 07/2027. NIH. Characterizing the Link between Multiple Environmental Exposures and Parkinson's Disease Exacerbation. Ruolo: MPI.
 5. Project No: NA (Dominici) 10/2022 – 09/2023. Harvard University. Data Science Methods and Tools for Climate Change Solutions. Ruolo: PI.
 6. 1RF1AG080948 (Bell, Gill, Benmarhnia) 12/2022 – 11/2025. NIH. Susceptibility and Adverse Health Outcomes Related to Climate-Sensitive Events among Older Medicare Beneficiaries with Alzheimer's and Dementia. Ruolo: Co-PI.
 7. 1U24ES035309 (Wellenius, Dominici, Nori-Sarma) 05/2023 – 04/2026. NIH. CAFFE: A Research Coordinating Center to Convene, Accelerate, Foster, and Expand the Climate Change and Health Community of Practice. Ruolo: MPI.
 8. R01ES34021 (Ertefaie, Dominici, Strawderman) 09/2023 – 08/2026. NIH. Statistical Methods to Characterize Causal Mechanisms by which Air Pollution Affects the Recurrence of Cardiovascular Events. Ruolo: MPI.
 9. Project No: NA (Dominici) 05/2024 – 04/2027. Amazon Web Services. AWS Research Project. Ruolo: PI.
 10. R01ES037156 (Dominici) 07/2024 – 06/2028. NIH. Synergizing Topological Deep Learning and Spatio-Temporal Causal Inference to Unpack Health Disparities in the Climate Crisis. Ruolo: PI.
 11. 2418829 (Rosenman) 07/2024 – 06/2026. NSF. LEAPS-MPS: Empirical Bayes Evidence Synthesis Techniques for Hybridizing Observational and Experimental Data. Ruolo: PI.
 12. Training Grant in Environmental Biostatistics. Ruolo: Co-Direttrice (Brent Coull, PI)

Insegnamento

Studenti alla Johns Hopkins

Studenti pre-dottorato in Biostatistica (Advisor principale, Hopkins)

- Sorina Eftim, candidata PhD, 2003-2006, completato
- Sergio Venturini, candidato PhD, Visiting Scholar dalla Bocconi University, Italia. Premiato nel 2008 come migliore tesi di dottorato italiana
- Yijie Zhou, candidata PhD, 2004-2007, completato
- Howard Chang, candidato PhD, 2006-2010, completato. ENAR 2008 Student Travel Award
- Jessica Myer, candidata PhD, 2007-2010, completato. ENAR 2008 Student Travel Award
- Jennifer Bobb, candidata PhD, 2008-2010, completato. ENAR 2010 Student Travel Award

Post-dottorandi in Biostatistica (Advisor principale, Hopkins)

- Michelle Bell, PhD 2002-2003, Professoressa, Yale University
- Roger Peng, PhD, 2003-2005, Professore Associato, Johns Hopkins University
- Holly Janes, PhD, 2005-2007, Professoressa Assistente, University of Washington Seattle
- Sonja Greven, PhD, 2008-2009, Professoressa Assistente, University of Munich
- Christopher D. Barr, PhD, 2008-2010, Professore Assistente, Harvard University

Studenti ad Harvard

Studenti universitari in Statistica (Advisor principale)

- Uggi Lee, 2012-2013
- Barrett Jansen, 2014-2015
- Kaela Nelson, 2018-2019
- Tara Ippolito, 2018-2019
- Sophie Woodward, 2022
- Michelle Qin, 2022-2023

- Daniela Garcia, 2023-2024
- Leo Vanciu, 2023-presente
- Sophie-An Kingsbury-Lee, 2023-presente

Studenti pre-dottorato in Biostatistica (Advisor principale)

- Andrew Correia, candidato PhD, 2010-2013
- Krista Watts, candidata PhD, 2011-2013
- Matt Cefalu, candidato PhD, 2011-2013
- Joseph Antonelli, candidato PhD, 2013-2017
- Elisabeth Smoot, candidata PhD, 2014-2015
- Tai Cai, candidato PhD, 2014-2017
- Yeting Du, candidata PhD, 2016-2017 (non primario)
- Georgia Papadogeorgou, candidata PhD, 2014-2018
- Emma Thomas, candidata PhD, 2017-2020
- Shirley Liao, candidata PhD, 2018-2019
- Xiao Wu, candidato PhD, 2017-2021
- Irina Degtiar, candidata PhD, 2017-2021
- Yue Yang, candidata PhD, 2020-Presente
- Jenny Lee, candidata PhD, 2020-2025
- Ellen Considine, candidata PhD, 2021-2025
- Michael Cork, candidato PhD, 2021-Presente
- Sophie Woodward, 2022-Presente

Post-dottorandi in Biostatistica (Advisor principale)

- Yeonsung Chang, PhD, 2010-2011, Professore Assistente di Statistica, Seoul University
- Yiping Dou, PhD, 2010, Scienziato presso Yahoo
- David Diez, PhD, 2010-2012, Google
- Lauren Hund, PhD, 2012-2013, Statistico, Sandia National Laboratories
- Dhruv Sharma, PhD, 2011-2012, Michigan State University
- Corwin Zigler, PhD, 2010-2013, Professore Associato di Statistica, University of Texas at Austin
- Matt Cefalu, PhD, 2013-2014, Rand
- Jennifer F Bobb, PhD, 2011-2015, Professoressa Associata di Biostatistica, Group Health Research Institute
- Fei Jiang, PhD, 2013-2015, Professoressa Assistente di Statistica, University of South Carolina

- Fred Cudhea, PhD, 2013-2015, Scienziato Ricercatore, Tufts University
- Kyu Ha Lee, PhD, 2011-2015, Professore Assistente di Nutrizione, Harvard T.H. Chan School of Public Health
- Danielle Braun, PhD, 2013-2017, Senior Scientist, Biostatistics, Harvard T.H. Chan School of Public Health
- Ander Wilson, PhD, 2014-2017, Professore Assistente di Statistica, Colorado State University
- Chanmin Kim, PhD, 2014-2018, Professore Assistente di Statistica, Sungkyunkwan University, Corea del Sud
- Joseph Antonelli, PhD, 2015-2018, Professore Assistente di Statistica, University of Florida
- Aaron Fisher, PhD, 2016-2019, Data Scientist, Pfizer
- Georgia Papadogeorgou, PhD, 2017-2019, Professoressa Assistente di Statistica, University of Florida
- Kwonsang Lee, PhD, 2017-2019, Professore Assistente di Statistica, Sungkyunkwan University, Corea del Sud
- Rachel Nethery, PhD, 2017-2019, Professoressa Assistente di Biostatistica, Harvard T.H. Chan School of Public Health
- Boyu Ren, PhD, 2017-2020, Professore Assistente di Biostatistica, McLean Hospital
- Xiao Wu, PhD, 2021-2023, Professore Assistente, Columbia Mailman School of Public Health
- Falco Bargagli Stoffi, PhD, 2020-2023, Professore Assistente, University of California Los Angeles
- Kevin Josey, PhD, 2020-2023, Professore Assistente, School of Public Health, University of Colorado
- Kate Hu, PhD, 2021-2024, Professoressa Assistente, Department of Statistics, Ohio State University
- Daniel Mork, PhD, 2021-2024, Research Scientist, Harvard T.H. Chan School of Public Health
- Mauricio Tec, PhD, 2022-2025, Senior Applied Scientist, AGI, Amazon
- Claudio Battiloro, PhD, 2024-Presente
- Gianluca Guidi, PhD, 2024-Presente
- Federica Spoto, PhD, 2024-Presente

Pubblicazioni Scientifiche Selezionate

Nota: Il CV completo include oltre 200 pubblicazioni peer-reviewed in riviste prestigiose quali New England Journal of Medicine, JAMA, Nature, Science, Epidemiology, Biostatistics, Journal of the American Statistical Association, e altre riviste di alto impatto nelle scienze statistiche, epidemiologiche e ambientali.

Le pubblicazioni coprono argomenti quali:

- Effetti sulla salute dell'inquinamento atmosferico (PM2.5, ozono)
- Inferenza causale e metodi statistici avanzati
- Cambiamento climatico e salute pubblica
- Disparità razziali e socioeconomiche nell'esposizione ambientale
- COVID-19 e qualità dell'aria
- Eventi meteorologici estremi e ricoveri ospedalieri
- Metodologie bayesiane e machine learning applicato alla salute ambientale

Francesca
Dominici

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Dr. Francesca Dominici

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Website ORCID Google Scholar

Education & Training

- Master of Public Health (Honorary), Harvard T.H. Chan School of Public Health, Harvard University, 2009
- Ph.D. in Statistics, University of Padua, Italy, 1997
- B.S. in Statistics, University La Sapienza, Rome, Italy, 110/110 (cum laude), 1993

Areas of Research

Bayesian statistics, causal inference, artificial intelligence/machine learning, climate change, environmental epidemiology, health policy, life science

Professional Experience

- Director, Harvard Data Science Initiative, Harvard University, 2017–Present
- Clarence James Gamble Professor of Biostatistics, Population Health, and Data Science; Faculty Affiliate, Dept. of Environmental Health, Harvard T.H. Chan School of Public Health, 2009–Present
- Contributor, Forbes 2024–present
- Senior Associate Dean for Research, Harvard T.H. Chan School of Public Health, 2013–2017
- Associate Dean of Information Technology, Harvard T.H. Chan School of Public Health, 2011–2013
- Professor, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, 2007–2009
- Associate Professor, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, 2002–2007
- Joint Appointment, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, 2001–2009
- Assistant Professor, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, 1999–2002
- Visiting Assistant Professor, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, 1997–1999
- Visiting Scholar, Institute of Statistics and Decision Science, Duke University, 1995–1997

Academic Leadership

- Member, Presidential Nomination MIT President Visiting Committee, MIT Institute for Data, Systems, and Society, 2024–Present
- Faculty Associate, Harvard Global Health Institute, 2024–Present
- Faculty Associate, Harvard Center of International Development, 2024–Present
- Steering Committee Member, Kempner Institute for the Study of Natural and Artificial Intelligence, Harvard University
- Steering Committee Member, #metoo Digital Media Project, Radcliffe Institute, Harvard University
- Faculty Associate, Salata Institute for Climate and Sustainability, Harvard University, 2021–Present
- Steering Committee Member, Harvard Library, 2020–Present
- Steering Committee Member, Institute of Quantitative Social Science, Harvard University, 2015–Present
- Director, National Studies on Air Pollution and Health (NSAPH) Group, Harvard T.H. Chan School of Public Health, 2010–Present
- Program Co-Director, Environmental Stats Training Grant, Harvard T.H. Chan School of Public Health, 2018–2022

University Service

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

Press Coverage (Selected)

- “Most New England States Don’t Track Heat-Related Deaths. Experts Say That’s a Problem.” WBUR, Aug 31, 2023
- “Cleaner Air Helps Everyone. It Helps Black Communities a Lot.” New York Times, Mar 23, 2023
- “Even Low Levels of Soot Can Be Deadly to Older People, Research Finds.” New York Times, Jan 26, 2022
- “Wildfire Smoke Linked to Higher COVID-19 Death Rates.” National Geographic, Aug 13, 2021
- “Air Pollution Kills Millions Every Year, Like a ‘Pandemic in Slow Motion’.” National Geographic, Mar 16, 2021
- “Pollution Made COVID-19 Worse. Now, Lockdowns are Clearing the Air.” National Geographic, Apr 8, 2020
- “Covid-19 Death Rate Rises in Counties with High Air Pollution, Study Says.” CNN, Apr 7, 2020
- “U.S. Air Pollution Still Kills Thousands Every Year, Study Concludes.” NPR, Jun 28, 2017

Professional Activities

Society Memberships and Leadership

- Elected Fellow, International Society of Bayesian Analysis
- Elected Fellow, Institute of Mathematical Statistics
- Elected Member, National Academy of Medicine
- Elected Fellow, American Statistical Association
- International Biometric Society
- International Society for Environmental Epidemiology
- Program Committee Member, Junior Researcher Workshop, International Biometric Society – ENAR Spring Meeting, Washington, DC, 2003
- Program Committee Member, International Biometric Society – ENAR Spring Meeting, Washington, DC, 2002
- Chair, Program Committee (Junior Researcher Workshop), International Biometric Society – ENAR Spring Meeting, Washington, DC, 2002

Participation on Advisory Panels

- Advisory Board Member, *Harvard Data Science Review*, Jul 2019–Present
- Scientific Advisory Committee Member, Solutions for Energy, AiR, Climate, and Health Center (EPA Air, Climate, and Energy Center), Yale University, Aug 2016–Present
- Medical Advisory Board Member, RAPIDSOS Inc., Jan 2016–Present
- John B. Little International Scientific Advisory Board Member, Harvard T.H. Chan School of Public Health, Oct 2015–Present
- Scientific Advisory Board Member, Radiation Effects Research Foundation, Jun 2014–Jun 2022
- Chairperson, NIH Biostatistical Methods and Research Design Study Section (BMRD), Center for Scientific Review, Jul 2017–Jul 2018
- Member, Centre of Environmental Health Research Advisory Council, Public Health Foundation of India, May 2016–2019
- Member, 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, National Academy of Sciences, Jan 2015–Jan 2016
- National Advisory Committee Member, Statistical and Applied Mathematical Sciences Institute, Jan 2015–2019
- Research Committee Member, Health Effects Institute, Nov 2014–Nov 2022
- Ad Hoc Committee Member, JPB Environmental Health Fellows Program, Apr 2014–2016
- Member, Institute of Medicine Committee: Research on Health Effects of Low-Level Ionizing Radiation Exposure (AFRRI), National Academy of Sciences, Apr 2013–Jun 2014
- Review Panel Member, Advising Deans (NCSU CPMS/CALS/Graduate School), Dept. of Statistics, North Carolina State University, 2013
- Member, NIH BMRD Study Section, Center for Scientific Review, Jul 2012–2016
- Member, Institute of Medicine Committee on Gulf War and Health: Long-Term Effects of Blast Exposures, National Academy of Sciences, Jun 2012–Aug 2013
- Chair, External Review Committee, Dept. of Biostatistics, Mailman School of Public Health, Columbia University, May 2012
- External Advisory Board Member, Southern California Environmental Health Sciences Center, 2011–2017
- Member, Institute of Medicine Committee to Review the Federal Response to the Health Effects Associated with the Gulf of Mexico Oil Spill, National Academy of Sciences, Sep 2010–Apr 2011
- Member, Institute of Medicine Committee on Long-Term Health Consequences of Exposure to Burn Pits in Iraq and Afghanistan, National Academy of Sciences, Feb 2010–Apr 2011

- Member, Institute of Medicine Committee on Secondhand Smoke Exposure and Acute Coronary Events, National Academy of Sciences, Jan 2009–Aug 2009
- Member, Institute of Medicine Committee to Review ATSDR’s Great Lakes Report, National Academy of Sciences, Apr 2008–Aug 2008
- Member, Institute of Medicine Committee on Making Best Use of the Agent Orange Exposure Reconstruction Model, National Academy of Sciences, 2007–2008
- Member, Institute of Medicine Committee on Gulf War and Health, National Academy of Sciences, 2005–2006
- External Advisory Board Member, MESA Air Pollution Study (PI: Joel Kaufman), Univ. of Washington, 2005–2015
- External Review Committee Member, NIH NICHD Division of Epidemiology, Statistics & Prevention Research, 2004
- Advisory Board Member, Eastern North American Region, International Biometric Society, 2003–2005
- Member, IOM Committee to Assess Potential Health Effects from Exposures to PAVE PAWS RF Energy, Cape Cod, MA, NAS, 2002–2005
- Member, Scientific Review Panel, Center for Environmental Statistics, EPA Study Section, 2001

Leadership and Diversity

- Chair, Committee for the Advancement of Women Faculty, Harvard T.H. Chan School of Public Health, Aug 2015–2017
- Attendee, Executive Program on Negotiation and Leadership, Harvard Law School Executive Education, May 18–20, 2015
- Panelist, “Lessons on Leadership: Defying Gender Stereotypes in the Workplace,” Harvard T.H. Chan School of Public Health, Mar 2014
- Panelist, “Having it All: Weighting to Achieve Balance,” ENAR, International Biometric Society, Mar 2014
- Participant, New Faculty Panel Discussion, Office of Faculty Development and Diversity, Harvard University, 2013
- Co-Chair, Committee for the Advancement of Women Faculty, Harvard T.H. Chan School of Public Health, 2012–Aug 2015
- Leader, Committee on the Concerns of Women Panel, “Imperfect Balance,” Harvard University, 2012
- Author, “So Few Women Leaders,” American Association of University Professors, 2009
- Diversity Recognition Award, President of Johns Hopkins University, 2009
- Co-Chair (with Linda P. Fried), University Committee on the Status of Women, Johns Hopkins University, 2005–2009

Consultations

- Litigation: *Kerr et al. vs. Aerojet General Corporation* (Neuroblastoma Incidence Analysis), Chino Hills, CA, 2005
- National Academy of Sciences Committee on Research Priorities for Airborne Particulate Matter, 2002
- Clean Air Act Advisory Committee, U.S. EPA, 2002
- Pacific Business Group on Health: The 1998 Asthma Outcome Survey, 1998
- Kaiser Permanente: Morbidity and Mortality Associated with Air Pollution among California Members, 1998
- Litigation: *Magaly Pinares et al. vs. United Technologies Corporation, Pratt & Whitney Group*, May 2018
- Litigation: *Boggs, Charles v. BP* (Deepwater Horizon, Case No. 16-cv-13476, The Downs Law Group), 2022–Present

Testimony

- Maryland State Committee on House Economic Matters: Health Effects of Particulate Matter and Ozone, 2005
- Maryland State Committee on Education, Health, and Environmental Affairs: Health Effects of Particulate Matter and Ozone, 2005

Editorial Activities

Editorial Board Activities

- Co-Editor in Chief, *Harvard Data Science Review*
- Senior Editor, Chapman & Hall/CRC Texts in Statistical Science Series
- Associate Editor, *Journal of the Royal Statistical Society*, 2011–2015
- Editor, *American Journal of Epidemiology* (Statistical Methodology), 2002–2007

Peer Review (Selected Journals)

- *American Journal of Epidemiology*; *Biometrics*; *Biostatistics*; *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*; *Nature*

Ad Hoc Review of Proposals

- NIH BMRD Study Section, CSR (Jul 1, 2012–Jun 30, 2018)
- U.S. Environmental Protection Agency
- Health Effects Institute, Boston, MA
- National Institutes of Health (NIH)
- National Institute of Environmental Health Sciences (NIEHS)
- Retirement Research Foundation
- Book proposals: John Wiley & Sons; Springer

Honors & Awards

Honors

- Named to *TIME* 100 Most Influential People in Global Health, 2024
- One of four scientists worldwide nominated by *Science* editors as a pioneer in data science and scientist to watch, 2024; Top 50 most powerful women in Italy 2024
- NIEHS Key Paper of the Year: “Air Pollution and Mortality at the Intersection of Race and Social Class,” *NEJM*, 2023
- NIEHS Key Paper of the Year: “Association of Tropical Cyclones with County-Level Mortality in the US,” *JAMA*, 2022
- NIEHS Key Paper of the Year: “Air Pollution Exposure Disparities across US Population and Income Groups,” *Nature*, 2022
- NIEHS Key Paper of the Year: “Tropical Cyclone Exposure is Associated with Increased Hospitalization Rates in Older Adults,” *Nature Communications*, 2021
- NIEHS Key Paper of the Year: “Excess of COVID-19 Cases and Deaths due to Fine Particulate Matter Exposure during the 2020 Wildfires in the United States,” *Science Advances*, 2021
- Elected Member, International Society of Mathematical Statistics, 2020
- Clarivate Highly Cited Researcher (top 1% worldwide), 2019
- Presidential Invited Address, International Biometric Society – ENAR, 2019
- Elected Member, National Academy of Medicine, 2018
- Recognized among top 10 Italian women scientists in biomedical sciences worldwide, 2016
- NIEHS Paper of the Year (Honorable Mention): “Cause-specific Risk of Hospital Admission Related to Heat in Older Adults,” *JAMA* 2015
- Clarivate Highly Cited Researcher (top 1% worldwide), 2015

- Wierman Distinguished Lecture, Johns Hopkins University, 2015
- Best Environmental Epidemiology Papers (Honorable Mention): “Residential Exposure to Aircraft Noise and Hospital Admissions for Cardiovascular Diseases,” *BMJ*, 2013
- Speaker, Mathematics for Planet Earth 2013 Simons Foundation Public Lecture Series (SAMSI), 2013
- Keynote Speaker, Environmental Health Day, University of Michigan, 2011
- Dean’s Lecture, Bloomberg School of Public Health, Johns Hopkins University, 2007
- Fellow, Johns Hopkins Center of Excellence in Public Health Tracking (CDC), 2005
- Elected Fellow, American Statistical Association, 2005
- Keynote Speaker, Royal Statistical Society, London, 2002

Awards

- Mosteller Statistician of the Year, Boston Chapter of the American Statistical Association (for exceptional contributions to statistics and service), 2022
- Star-Friedman Challenge Award for Promising Scientific Research, Harvard University (high-risk, high-impact research), 2020
- Karl E. Peace Award for Outstanding Statistical Contributions for the Betterment of Society, American Statistical Association, 2020
- Jerome Sacks Award for Cross-Disciplinary Research, American Statistical Association, 2020
- Janet L. Norwood Award for Outstanding Achievement by a Woman in the Statistical Sciences, University of Alabama, 2016
- Florence Nightingale David Award (COPSS and Caucus for Women in Statistics), 2015
- Diversity Recognition Award, Johns Hopkins University, 2009
- Myrto Lefkopoulou Distinguished Lectureship, Harvard University, 2007
- Gertrude Cox Award, Washington DC Chapter of the ASA and RTI International, 2007
- Mortimer Spiegelman Award, American Public Health Association (Statistics Section), 2006
- Young Investigator Award for Best Paper of the Year, ASA Section on Statistics in Epidemiology, 2001
- Walter A. Rosenblith New Investigator Award (3-year fellowship), Health Effects Institute, 1999–2002
- Student Award, International Biometric Society – ENAR, 1998
- Three-Year Fellowship & Award for Study and Research Abroad, Dept. of Statistics, University of Padua, Italy, 1994–1997

Journal Articles (*peer reviewed*)

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 (with discussion). *American Journal of Epidemiology* 152(5):397–412.
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 (with discussion). *New England Journal of Medicine* 343(24):1742–1749.
12. **Dominici F**, 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. *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 (with invited commentary). *American Journal of Epidemiology* 157:1055–1065.
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**, 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 Pollution 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** (2004). 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, Breyse PA, Matanoski G (2004). Parental Lead Exposure and Total Anomalous Pulmonary Venous Return. *Birth Defects Research*, 70:185–193.

30. Merialdi M, Caulfield L, Zavaleta N, Figueroa A, Costigan KM, **Dominici F**, DiPietro J (2004). Randomized Controlled Trial of Prenatal Zinc Supplementation and Fetal Growth. *American Journal of Clinical Nutrition*, 79:826–830.
31. Merialdi M, Caulfield L, Zavaleta N, Figueroa A, Costigan KM, **Dominici F**, DiPietro J (2004). Randomized Controlled Trial 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 Care. *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. Merialdi 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. Merialdi 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 Growth 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 (with discussion). *Epidemiology*, 16:436–445. PMID: 15951661; PMCID: PMC3581312; doi:10.1097/01.ede.0000165817.40152.85.
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**, 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):311–315.
63. Kim SR, **Dominici F**, Buckley TJ (2007). Concentrations of Vehicle-Related Air Pollutants in an Urban Parking Garage. *Environmental Research*, 105(3):291–299. 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*, 115:1591–1595. 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 PM₁₀ on Mortality Depend on PM Nickel and Vanadium Content? A Re-Analysis of the NMMAPS Data.

Environmental Health Perspectives, 115:1701–1703. 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 A (2008). The Role of Epidemiology in the Law: A Toxic Tort Litigation Case. *Law, Probability, and Risk*, 7:15–34.
76. Bell M, **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 Mat-

- ter on Mortality in Europe and North America: Results from the APHENA Study. *Environmental Health Perspectives*, 116(11):1480–1486. 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, **Dominici F** (2009). Discussion of the Paper by Craigmiller et al. Hierarchical Model Building, Fitting, and Checking: A Behind-the-Scene Look at a Bayesian Analysis of Exposure Pathways. *Bayesian Analysis*, 4:37–40.
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Books

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Book Chapters, Monographs, Peer-Reviewed Reports

345. **Dominici F** (1994). Partial Sufficiency (in Italian). Laurea (MS) Dissertation, Publications of the Department of Statistics, Probability and Applied Statistics, University La Sapienza, Rome, Italy.
346. **Dominici F** (1994). Discriminant Analysis. Chapter 6 of Handbooks of the Summer School of Statistics, Number 6, University L. Bocconi, Milan.

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359. 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.

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361. Committee on the Gulf War and Health (2006). Review of the Medical Literature Relative to Gulf War Veteran's Health. The National Academies of Science, Washington DC.
362. Committee on Herbicide Exposure Assessment in Vietnam Veterans (2008). The National Academies of Science, Washington DC.
363. Committee on ATSDR's Great Lakes Report Drafts (2008). Letter Report. The National Academies of Science, Washington DC.
364. Committee on Secondhand Smoke Exposure and Cardiovascular Effects (2009). The National Academies of Science, Washington DC.
365. Committee on Long-Term Health Consequences of Exposure to Burn Pits in Iraq and Afghanistan (2011). The National Academies of Science, Washington DC.
366. Committee on Research Directions in Human Biological Effects of Low Level Ionizing Radiation (2014). The National Academies, Washington DC.
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Other

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374. Potter DEB, Lau DT, **Dominici F** (2002). Characteristics of Nursing Home Residents with Item Non Response in Their Prescribed Medicine Data. In: Proc. 2002 Joint Statistical Meeting of ASA, New York, NY.

375. Fung K, Krewski D, Burnett R, **Dominici F** (2002). Testing the Harvesting Hypothesis by Time Domain Analysis. Proc. 2002 Colloquium on Environmental Risk Assessment and Management, Baltimore, MD.
376. **Dominici F**, Peng D, Bell M, Pham M, McDermott A, Zeger SL, Samet JM (2006). Reply to Ricci and Thurston: Particles, Air Pollution and Hospital Admission. *JAMA*, 296(16):1966–1967. doi:10.1001/jama.296.16.1966-c.
377. Cefalu M, **Dominici F** (2016). Authors’ Response to Goldberg et al. *Epidemiology*, 28(1):1. doi:10.1097/EDE.0000000000000563.
378. Sabath MB, Di Q, Schwartz J, Braun D, **Dominici F**, Choirat C (2018). Airpred: A Flexible R Package for Predicting Air Pollution. In: Proc. 5th IEEE Int. Conf. on Data Science and Advanced Analytics, Turin, Italy. doi:10.1109/DSAA.2018.00074.
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380. Tec M, Josey K, Mudele O, **Dominici F** (2024). Causal Estimation of Exposure Shifts with Neural Networks. In: Proc. 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD ’24).
381. Lecha M, Cavallo A, **Dominici F**, Isufi E, Battiloro C (2025). Higher-Order Topological Directionality and Directed Simplicial Neural Networks. In: Proc. ICASSP 2025, IEEE. doi:10.1109/ICASSP49660.2025.10890264.
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383. Spoto F, Battiloro C, **Dominici F** (2025). Man-TIRE: Offline Change Point Detection over Riemann Manifolds. In: Statistics for Innovation IV. SIS 2025, Italian Statistical Society, Springer.
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doi:10.48550/arXiv.2405.15429.
385. **Dominici F**, Vartziotis T (2025). Integrating environmental health in the AI era: an urgent imperative. *Harvard Data Sci Rev* [Internet]. 7(4). Available from:
<https://doi.org/10.1162/99608f92.7d27980c>.
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GRANTS

1. P50MD010428 (Laden, Levy) 07/2015 – 06/2020. NIH/NIMHD. Disparities in Exposure and Health Effects of Multiple Environmental Stressors Across the Life Course. Role: Co-I.
2. 83615601 (Laden) 07/2015 – 07/2020. EPA. Disparities in Exposure and Health Effects of Multiple Environmental Stressors Across the Life Course. Role: Co-I.
3. 83587201-0 (Koutrakis) 12/2015 – 12/2020. EPA. Regional Air Pollution Mixtures: The Past and Future Impacts of Emission Controls and Climate Change on Air Quality and Health. Role: Co-I.
4. 4953-RFA14-3/16-4 (**Dominici**, Zanobetti) 02/2016 – 02/2020. HEI. Assessing Adverse Health Effects of Long-Term Exposure to Low Levels of Ambient Pollution. Role: PI.
5. R01ES026217 (Zigler) 02/2016 – 02/2021. NIH. Causal Inference with Interference for Evaluating Air Quality Policies. Role: Co-I.
6. R01MD012769 (Bell) 09/2017 – 06/2022. NIH. Environmental Health Disparities in an Older Population. Role: Consortium PI.
7. DP2MD012722 (Rose) 09/2017 – 07/2022. NIH. Machine Learning for Health Outcomes and Quality of Care in Low-Income Populations. Role: Co-I.
8. R01ES028033 (Laden, **Dominici**) 12/2017 – 12/2022. NIH. Relationship Between Multiple Environmental Exposures and CVD Incidence and Survival: Vulnerability and Susceptibility. Role: PI.
9. Project No: NA (**Dominici**) 07/2018 – 06/2024. Fernholz Foundation. Advancing Data Science Research at the Harvard T.H. Chan School of Public Health. Role: PI.
10. 5R01AG060232 (Setoguchi-Iwata) 06/2019 – 04/2024. NIH. Disease Outcomes in Older adults under extreme Heat, Air pollution and Medication use (DO-NO-HARM). Role: Consortium PI.
11. 1R01ES030616 (Kioumourtzoglou) 03/2020 – 12/2024. NIH. Integrating Air Pollution Prediction Models: Uncertainty Quantification and Propagation in Health Studies. Role: Consortium PI.
12. 1R01AG066793 (Zanobetti) 04/2020 – 11/2025. NIH. National Cohort Studies of Alzheimer's Disease, Related Dementias and Air Pollution. Role: Co-I.
13. 1R01ES029950 (Wellenius) 05/2020 – 10/2023. NIH. Evidence to Improve Heat Warning Effectiveness in Reducing Morbidity and Mortality. Role: Co-I.
14. 2020 Star Friedman Award (**Dominici**) 07/2020 – 07/2021. Harvard University. Air Pollution, Race, and Health Outcomes for COVID-19 in the United States: Data Access, Methods, and Dissemination. Role: PI.
15. G-2020-13946 (**Dominici**) 09/2020 – 08/2023. Alfred P. Sloan Foundation. Causal Inference with Complex Treatment Regimes: Design, Identification, Estimation, and Heterogeneity. Role: PI.

16. P30ES000002 (Weisskopf) 11/2020 – 11/2021. NIH/NIEHS. Air Pollution, Race, and Health Outcomes for COVID-19 in the United States: Data Science Methods and Dissemination. Role: PI.
17. 1RF1AG074372-01A1 (Patel, **Dominici**, Estiri) 06/2022 – 05/2025. NIH. The Confluence of Extreme Heat/Cold on the Health and Longevity of an Aging Population with Alzheimer's and Related Dementia. Role: Co-PI.
18. 1R01MD016054-01A1 (Bell, Deziel) 07/2022 – 03/2027. NIH. Air Pollution, Heat, Cold, and Health: Disparities in the Rural South. Role: PD/PI.
19. 1R01ES034373-01 (Zanobetti, Braun) 09/2022 – 07/2027. NIH. Characterizing the Link between Multiple Environmental Exposures and Parkinson's Disease Exacerbation. Role: MPI.
20. Project No: NA (**Dominici**) 10/2022 – 09/2023. Harvard University. Data Science Methods and Tools for Climate Change Solutions. Role: PI.
21. 1RF1AG080948 (Bell, Gill, Benmarhnia) 12/2022 – 11/2025. NIH. Susceptibility and Adverse Health Outcomes Related to Climate-Sensitive Events among Older Medicare Beneficiaries with Alzheimer's and Dementia. Role: Co-PI.
22. 1U24ES035309 (Wellenius, **Dominici**, Nori-Sarma) 05/2023 – 04/2026. NIH. CAFÉ: A Research Coordinating Center to Convene, Accelerate, Foster, and Expand the Climate Change and Health Community of Practice. Role: MPI.
23. R01ES34021 (Ertefaie, **Dominici**, Strawderman) 09/2023 – 08/2026. NIH. Statistical Methods to Characterize Causal Mechanisms by which Air Pollution Affects the Recurrence of Cardiovascular Events. Role: MPI.
24. Project No: NA (**Dominici**) 05/2024 – 04/2027. Amazon Web Services. AWS Research Project. Role: PI.
25. R01ES037156 (**Dominici**) 07/2024 – 06/2028. NIH. Synergizing Topological Deep Learning and Spatio-Temporal Causal Inference to Unpack Health Disparities in the Climate Crisis. Role: PI.
26. 2418829 (Rosenman) 07/2024 – 06/2026. NSF. LEAPS-MPS: Empirical Bayes Evidence Synthesis Techniques for Hybridizing Observational and Experimental Data. Role: PI.
27. Training Grant in Environmental Biostatistics. Role: Co-Director (Brent Coull, PI)

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)*
- Jayme Locke, MD, Resident, Department of Surgery, Johns Hopkins Hospital, 2006 *MPH Capstone Award Winner*
 - Lia Clattenburg, MD, 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, 2008
- Final Oral Participation (Hopkins)*
- Karlyn 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, PhD Environmental Health Sciences, 2009
- Howard Chang, PhD Biostatistics, 2009
- Lydia Isaac, PhD Health Policy and Management, 2009

Advisees at Harvard

Undergraduate Students in Statistics (Primary Advisor)

- Uggi Lee, 2012-2013
- Barrett Jansen, 2014-2015
- Kaela Nelson, 2018-2019
- Tara Ippolito, 2018-2019
- Sophie Woodward, 2022

- Michelle Qin, 2022-2023
- Daniela Garcia, 2023-2024
- Leo Vanciu, 2023-present
- Sophie-An Kingsbury-Lee, 2023-present

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, 2013-2017
- 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, 2020-2025
- Ellen Considine, PhD candidate, 2021-2025
- Michael Cork, PhD candidate, 2021-Present
- Sophie Woodward, 2022-Present

Post-Doctoral Fellows in Biostatistics (Primary Advisor)

- Yeonsung Chang, PhD, 2010-2011, Assistant Professor of Statistics, 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, Associate Professor of Statistics, University of Texas at Austin

- Matt Cefalu, PhD, 2013-2014, Rand
- Jennifer F Bobb, PhD, 2011-2015, Associate Professor of Biostatistics, Group Health Research Institute
- Fei Jiang, PhD, 2013-2015, Assistant Professor of Statistics, University of South Carolina
- Fred Cudhea, PhD, 2013-2015, Research Scientist, Tufts University
- Kyu Ha Lee, PhD, 2011-2015, Assistant Professor of Nutrition, Harvard T.H. Chan School of Public Health
- Danielle Braun, PhD, 2013-2017, Senior Scientist, Biostatistics, Harvard T.H. Chan School of Public Health
- Ander Wilson, PhD, 2014-2017, Assistant Professor of Statistics, Colorado State University
- Chanmin Kim, PhD, 2014-2018, Assistant Professor of Statistics, Sungkyunkwan University, South Korea
- Joseph Antonelli, PhD, 2015-2018, Assistant Professor of Statistics, University of Florida
- Aaron Fisher, PhD, 2016-2019, Data Scientist, Pfizer
- Georgia Papadogeorgou, PhD, 2017-2019, Assistant Professor of Statistics, University of Florida
- Kwonsang Lee, PhD, 2017-2019, Assistant Professor of Statistics, Sungkyunkwan University, South Korea
- Rachel Nethery, PhD, 2017-2019, Assistant Professor of Biostatistics, Harvard T.H. Chan School of Public Health
- Boyu Ren, PhD, 2017-2020, Assistant Professor of Biostatistics, McLean Hospital
- Xiao Wu, PhD, 2021-2023, Assistant Professor, Columbia Mailman School of Public Health
- Falco Bargagli Stoffi, PhD, 2020-2023, Assistant Professor, University of California Los Angeles
- Kevin Josey, PhD, 2020-2023, Assistant Professor, School of Public Health, University of Colorado
- Kate Hu, PhD, 2021-2024, Assistant Professor, Department of Statistics, Ohio State University
- Daniel Mork, PhD, 2021-2024, Research Scientist, Harvard T.H. Chan School of Public Health
- Mauricio Tec, PhD, 2022-2025, Senior Applied Scientist, AGI, Amazon
- Claudio Battiloro, PhD, 2024-Present
- Gianluca Guidi, PhD, 2024-Present
- Federica Spoto, PhD, 2024-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, PhD Environmental Health, 2017

Other

- Jason Wasfy, MD, MPhil, Massachusetts General Hospital, 2016 *Recipient of KL2/Catalyst Medical Research Investigator Training 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, Environmental Health, 2014
- Mathieu Maheu-Giroux, Global Health Population, 2014
- Elisabeth Smoot, Biostatistics, 2015
- Joseph Antonelli, Biostatistics, 2015

K99 Advisees

- Jason Wasfy, MD, MPhil, Massachusetts General Hospital, 2015
- Xabier Adrian Garcia-De-Albeniz, MD, PhD, Harvard T.H. Chan School of Public Health, 2016
- Peter James, ScD, Harvard T.H. Chan School of Public Health, 2016, 2021
- Gitanjali Singh, PhD, Tufts University Friedman School of Nutrition Science and Policy, 2016
- Mercedes Bravo, PhD, University of Michigan School of Natural Resources and Environment, 2016
- Brooke Anderson, PhD, University of Colorado, 2017

- Kelvin Fong, PhD, Yale University School of Forestry and Environmental Studies, 2020, 2021
- Seulkee Heo, PhD, Yale University School of Forestry and Environmental Studies, 2020
- Rachel Nethery, PhD, Harvard T.H. Chan School of Public Health, 2020, 2021
- Briana Stephenson, PhD, Harvard T.H. Chan School of Public Health, 2020, 2021
- Whanhee Lee, PhD, Yale University School of the Environment, 2021
- Hannah Correia, PhD, Harvard T.H. Chan School of Public Health, 2021
- Isabel Fulcher, MD, Harvard Medical School, 2021
- Robbie Parks, PhD, Columbia University, 2021
- Ashley Buchanan, DrPH, Harvard T.H. Chan School of Public Health, 2021
- Longxiang Li, PhD, DrPH, Harvard T.H. Chan School of Public Health, 2022
- Yanguang Wei, PhD, DrPH, Harvard T.H. Chan School of Public Health, 2022
- Xiao Wu, PhD, Mailman School of Public Health, Columbia University, 2024

Francesc
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