

Dr. Francesca Dominici is the Clarence James Gamble Professor of Biostatistics, Population and Data Science, at the Harvard T.H. Chan School of Public Health and Co-Director of the Harvard Data Science Initiative. She received her Laurea in Statistics (BS) from Università la Sapienza in Rome, Italy in 1993, and her PhD in Statistics from the University of Padua, Italy, in 1997. In 2007 she was promoted to Professor with tenure at the Bloomberg School of Public Health at Johns Hopkins University. In 2009, Dr. Dominici was recruited by Harvard University as a tenured Professor. In Fall 2013, she was appointed Senior Associate Dean for Research and in February 2017, she was appointed by the Harvard President and Provost as the inaugural co-director of the Harvard Data Science Initiative. In 2018, Dr. Dominici was elected to the National Academy of Medicine and to the Institute of Mathematical Statistics. She has been recognized as one of the top 10 Italian women scientists with the largest impact in biomedical sciences across the world. Dr. Dominici has also been recognized in Thomson Reuter's 2015 list of the most highly cited researchers, **ranking in the top 1% of scientists cited in her field.** In the last few years she received the following awards:

- Mosteller Statistician of the Year Award, Boston Chapter of the American Statistical Association 2022. The award is given to a distinguished statistician who has made exceptional contributions to the field of statistics and outstanding service to the statistical community.
- 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."

Dr. Dominici's research has focused on the development of statistical methods for the analysis of large and complex data. She is a passionate data scientist; her expertise is in the development of statistical methods for the analysis of large, messy data and for combining information across heterogeneous data sources. She leads several interdisciplinary groups of scientists and students with the ultimate goal of addressing important questions in environmental health science, climate change, and health policy. Dr. Dominici has authored more than 280 peer-reviewed publications; her H-index is 95 and i10-index is 255. Her air pollution studies have directly and routinely impacted air quality policy, leading to more stringent ambient air quality standards in the U.S. For example, on November 14, 2017, Senator Booker featured her work in the New England Journal of Medicine on fine particulate matter and mortality at the [hearing](#) on the Nomination of Kathleen Hartnett White to be a Member of the Council on Environmental Quality.

In her current role as co-director of the **Harvard Data Science Initiative**, Dr. Dominici is building on the collaborations that already exist across the entire University to foster a rich and cohesive data science community, bringing together scholars from across disciplines and schools. In addition to carrying out the academic plan of the Initiative, she oversees the operations and distribution of seed funding and helps to raise funds to support key programmatic activities, such as an annual conference on data science, a postdoctoral fellows program, and three internal grant funding mechanisms.

Dr. Dominici is also the founder and the lead PI for the National Studies on Air Pollution and Health Group ([NSAPH](#)), which is a group of faculty, research scientists, post-doctoral fellows, graduate students, and college students studying data science methodologies in the context of climate change, environmental impacts on health outcomes, and regulatory policy. The group has over 100 members and includes 25 Principal Investigators & Faculty over 12 institutions.

Dr. Dominici is also one of the lead PIs for the [BUSPH-HSPH Climate Change and Health Research Coordinating Center, CAFÉ](#). The [CAFÉ](#) is a three-year cooperative agreement with the National Institutes of Health (NIH), a critical component of the NIH Climate Change and Health Initiative to manage and support ongoing climate change and health research and capacity building efforts.

In addition to her research interests and administrative leadership roles, Dr. Dominici has held a career-long commitment to promoting diversity in academia and she has launched several **university- and school-wide initiatives in Diversity and Inclusion**. While at Johns Hopkins, she co-chaired the University Committee on the Status of Women with Dr. Linda P. Fried, current

Dean of the Mailman School of Public Health at Columbia University. Also in 2009, she was awarded the Diversity Recognition Award by Johns Hopkins President, Ronald Daniels. Additionally, Dr. Dominici has chaired the Committee for the Advancement of Women Faculty at the Harvard T.H. Chan School of Public Health. In 2015, she was awarded the Florence Nightingale David Award, sponsored jointly by the Committee of Presidents of Statistical Societies and the Caucus for Women in Statistics. She was selected for this award based on her contributions as a role model to women and demonstrated excellence in statistical research, leadership of multidisciplinary collaborative groups, statistics education, and service to the profession of statistics. In 2016, she was awarded the Janet L. Norwood Award for Outstanding Achievement in Statistical Sciences. This annual award internationally recognizes a woman statistician for outstanding achievement in the statistical sciences. To learn more about Dr. Dominici's efforts towards more diversity and inclusion, please see her page [here](#).