

CURRICULUM VITAE
Gregory A. Wellenius

1. Name, Position, Academic Department

Gregory A. Wellenius, ScD
Associate Professor of Epidemiology
Director, Brown University Center for Environmental Health and Technology
Brown University School of Public Health

2. Address

Brown University
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3. Education

1996	B.Sc. (Distinction)	McGill University Major: Physiology
1999	M.Sc.	McGill University Major: Physiology Thesis: A comparison of head-restrained and head-unrestrained gaze pursuit.
2004	Sc.D.	Harvard School of Public Health Majors: Environmental Health and Epidemiology Thesis: Air pollution-induced cardiac arrhythmias, ischemia, and heart failure.
2004- 2007	Research Fellow in Medicine	Cardiovascular Division Beth Israel Deaconess Medical Center, Boston, MA

4. Academic Appointments

2007-2009	Instructor of Medicine Harvard Medical School and Department of Medicine, Beth Israel Deaconess Medical Center, Boston, MA
2009-2011	Assistant Professor of Community Health Department of Community Health, Brown University
2011-2014	Assistant Professor of Epidemiology Department of Epidemiology, Brown University
2014 - Present	Associate Professor of Epidemiology, Department of Epidemiology, Brown University
Fall 2018	Acting Chair, Department of Epidemiology, Brown University

5. Other Appointments

- 2011-2017 Associate Director
Center for Environmental Health and Technology, Brown University
- 2012-2015 Visiting Scientist
Department of Environmental Health, Harvard School of Public Health
- 2015-2016 Visiting Scientist
Centre for Res. in Environmental Epidemiology (CREAL), Barcelona, Spain
- 2018-Present Director, Brown University Center for Environmental Health and Technology

6. Honors and Awards

- 2004 Edgar Haber Award in Biological Sciences, Harvard School of Public Health,
Doctoral Thesis
- 2015 M.A. *ad eundem*, Brown University
- 2018 Dean's Award for Excellence in Teaching, Brown U. School of Public Health

7. Professional Societies

- 2003 - Present Member, International Society for Environmental Epidemiology
- 2008 - Present Member, American Heart Association
- 2016 - 2018 Elected Councilor, International Society for Environmental Epidemiology
(ISEE)

8. Publications

a. Reports

1. U.S. EPA. Integrated Science Assessment for Particulate Matter (Final Report). U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-08/139F, 2009.
2. U.S. EPA. Integrated Science Assessment (ISA) for Oxides of Nitrogen – Health Criteria (Final Report, 2016). U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-15/068, 2016.
3. U.S. EPA. Integrated Science Assessment (ISA) for Sulfur Oxides – Health Criteria (Final Report). U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-17/451, 2017.
4. US Global Change Research Program (USGCRP), 2018: *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II* [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA. doi:10.7930/NCA4.2018. <http://nca2018.globalchange.gov/>

b. Books

1. Savitz DA, **Wellenius GA**. *Interpreting Epidemiologic Evidence: Connecting Research to Applications*. Oxford University Press; 2016.

c. Chapters in Books

1. Coull BA, **Wellenius GA**. Cardiac Toxicology. In: A. H. El-Shaarawi and W. W. Piegorsch, editors. *Encyclopedia of Environmetrics*. New York: Wiley;2002. p. 271-272.
2. **Wellenius GA**, Gold DR, Mittleman MA. Ambient Particulate Matter and the Risk of Stroke. In: A Bhatnagar, editor. *Environmental Cardiology*. Cambridge (UK): Royal Society of Chemistry; 2010.
3. Ranft U, **Wellenius GA**. Epidemiologic Methods. In: Reichl F-X, Schwenk M, eds. *Regulatory Toxicology*. Springer; 2014.

d. Peer-Reviewed Journal Articles

1. **Wellenius GA**, Cullen KE. A comparison of head-unrestrained and head-restrained pursuit: influence of eye position and target velocity on latency. *Exp Brain Res*. 2000;133(2):139-55.
2. **Wellenius GA**, Saldiva PH, Batalha JR, Krishna Murthy GG, Coull BA, Verrier RL, Godleski JJ. Electrocardiographic changes during exposure to residual oil fly ash (ROFA) particles in a rat model of myocardial infarction. *Toxicol Sci*. 2002;66(2):327-35.
3. **Wellenius GA**, Coull BA, Godleski JJ, Koutrakis P, Okabe K, Savage ST, Lawrence JE, Murthy GG, Verrier RL. Inhalation of concentrated ambient air particles exacerbates myocardial ischemia in conscious dogs. *Environ Health Perspect*. 2003;111(4):402-8.
4. Kumar K, Nguyen K, Waxman S, Nearing BD, **Wellenius GA**, Zhao SX, Verrier RL. Potent antifibrillatory effects of intrapericardial nitroglycerin in the ischemic porcine heart. *J Am Coll Cardiol*. 2003;41(10):1831-7.
5. **Wellenius GA**, Batalha JR, Diaz EA, Lawrence J, Coull BA, Katz T, Verrier RL, Godleski JJ. Cardiac effects of carbon monoxide and ambient particles in a rat model of myocardial infarction. *Toxicol Sci*. 2004;80(2):367-76.
6. **Wellenius GA**, Bateson TF, Mittleman MA, Schwartz J. Particulate air pollution and the rate of hospitalization for congestive heart failure among Medicare beneficiaries in Pittsburgh, Pennsylvania. *Am J Epidemiol*. 2005;161(11):1030-6.
7. Rhoden CR, **Wellenius GA**, Ghelfi E, Lawrence J, González-Flecha B. PM-induced cardiac oxidative stress and dysfunction are mediated by autonomic stimulation. *Biochim Biophys Acta*. 2005;1725(3):305-13.
8. **Wellenius GA**, Schwartz J, Mittleman MA. Air pollution and hospital admissions for ischemic and hemorrhagic stroke among Medicare beneficiaries. *Stroke*. 2005;36(12):2549-53.
9. Fisman DN, Lim S, **Wellenius GA**, Johnson C, Britz P, Gaskins M, Maher J, Mittleman MA, Spain CV, Haas CN, Newbern C. It's not the heat, it's the humidity: wet weather increases legionellosis risk in the greater Philadelphia metropolitan area. *J Infect Dis*. 2005;192(12):2066-73.

10. **Wellenius GA**, Schwartz J, Mittleman MA. Particulate air pollution and hospital admissions for congestive heart failure in seven United States cities. *Am J Cardiol*. 2006;97(3):404-8.
11. **Wellenius GA**, Coull BA, Batalha JR, Diaz EA, Lawrence J, Godleski JJ. Effects of ambient particles and carbon monoxide on supraventricular arrhythmias in a rat model of myocardial infarction. *Inhal Toxicol*. 2006;18(14):1077-82.
12. Mukamal KJ, **Wellenius GA**, Mittleman MA. Holiday review. Early to bed and early to rise: does it matter? *CMAJ*. 2006;175(12):1560-2.
13. **Wellenius GA**, Mukamal KJ, Winkelmayr WC, Mittleman MA. Renal dysfunction increases the risk of saphenous vein graft occlusion: Results from the Post-CABG trial. *Atherosclerosis*. 2007;193(2):414-20.
14. Mbanu I, **Wellenius GA**, Mittleman MA, Peeples L, Stallings LA, Kales SN. Seasonality and coronary heart disease deaths in United States firefighters. *Chronobiol Int*. 2007;24(4):715-26. PMID: 3756551.
15. **Wellenius GA**, Yeh GY, Coull BA, Suh HH, Phillips RS, Mittleman MA. Effects of ambient air pollution on functional status in patients with chronic congestive heart failure: a repeated-measures study. *Environ Health*. 2007;6(1):26. PMID: 2014745.
16. Ghelfi E, Rhoden CR, **Wellenius GA**, Lawrence J, Gonzalez-Flecha B. Cardiac oxidative stress and electrophysiological changes in rats exposed to concentrated ambient particles are mediated by TRP-dependent pulmonary reflexes. *Toxicol Sci*. 2008;102(2):328-36.
17. **Wellenius GA**, Mukamal KJ, Kulshreshtha A, Asonganyi S, Mittleman MA. Depressive symptoms and the risk of atherosclerotic progression among patients with coronary artery bypass grafts. *Circulation*. 2008;117(18):2313-9. PMID: 2393552.
18. **Wellenius GA**, Mittleman MA. Disparities in myocardial infarction case fatality rates among the elderly: The 20-year Medicare experience. *Am Heart J*. 2008;156(3):483-90. PMID: 2574015.
19. Lokken RP, **Wellenius GA**, Coull BA, Burger MR, Schlaug G, Suh HH, Mittleman MA. Misclassification of onset time of acute cardiovascular events leads to underestimation of air pollution health effects. *Epidemiology*. 2009; 20(1): 137-42. PMID: 2888684.
20. Mukamal KJ, **Wellenius GA**, Mittleman MA. Hematologic parameters, atherosclerotic progression, and prognosis in patients with previous coronary artery bypass grafting (from the Post CABG Trial). *Am J Cardiol*. 2009;103(3):328-32.
21. Bartoli CR, **Wellenius GA**, Coull BA, Akiyama I, Diaz EA, Lawrence J, Okabe K, Verrier RL, Godleski JJ. Concentrated Ambient Particles Alters Myocardial Blood Flow during Acute Ischemia in Conscious Canines. *Environ Health Perspect*. 2009;117:333–7. PMID: 2661899.
22. Bartoli CR, **Wellenius GA**, Diaz EA, Lawrence J, Coull BA, Akiyama I, Lee LM, Okabe K, Verrier RL, Godleski JJ. Mechanisms of Inhaled Fine Particulate Air Pollution-Induced Arterial Blood Pressure Changes. *Environ Health Perspect*. 2009; 117:361–6. PMID: 2661904.
23. Mukamal KJ, **Wellenius GA**, Suh HH, Mittleman MA. Weather and Air Pollution as Triggers of Severe Headaches. *Neurology*. 2009;72(10):922-7. PMID: 2677474.

24. Stuart-Shor EM, **Wellenius GA**, Dello Iacono D, Mittleman MA. Gender differences in presenting and prodromal stroke symptoms. *Stroke*. 2009;40(4): 1121-6. PMID: 2753397.
25. Mostofsky E, **Wellenius GA**, Noheria A, Levitan EB, Burger MR, Schlaug G, Mittleman MA. Renal Function Predicts Survival in Patients with Acute Ischemic Stroke. *Cerebrovasc Dis*. 2009;28:88-94. PMID: 2700844.
26. Soverow JE, **Wellenius GA**, Fisman DN, Mittleman MA. Infectious Disease in a Warming World: How Weather Influenced West Nile Virus in the United States (2001-2005). *Environ Health Perspect*. 2009;117:1049-52. PMID: 2717128.
27. Brook RD, Urch B, Dvonch JT, Bard RL, Speck M, Keeler G, Morishita M, Marsik FJ, Kamal AS, Kaciroti N, Harkema J, Corey P, Silverman F, Gold DR, **Wellenius G**, Mittleman MA, Rajagopalan S, Brook JR. Insights into the mechanisms and mediators of the effects of air pollution exposure on blood pressure and vascular function in healthy humans. *Hypertension*. 2009;54(3):659-67. PMID: 3706996.
28. Fakhri AA, Ilic LM, **Wellenius GA**, Urch B, Silverman F, Gold DR, Mittleman MA. Autonomic Effects of Controlled Fine Particulate Exposure in Young Healthy Adults: Effect Modification by Ozone. *Environ Health Perspect*. 2009;117(8):1287-92. PMID: 2721874.
29. Rosenbloom JI, **Wellenius GA**, Mukamal KJ, Mittleman MA. Self-reported anxiety and the risk of clinical events and atherosclerotic progression among patients with Coronary Artery Bypass Grafts (CABG). *Am Heart J*. 2009;158(5):867-73. PMID: 2768655.
30. Baja ES, Schwartz JD, **Wellenius GA**, Coull BA, Zanobetti A, Vokonas PS, Suh HH. Traffic-Related Air Pollution and QT Interval: Modification by Diabetes, Obesity, and Oxidative Stress Gene Polymorphisms in the Normative Aging Study (NAS). *Environ Health Perspect*. 2010;118(6):840-846. PMID: 2898862.
31. Ghelfi E, **Wellenius GA**, Lawrence J, Millet E, Gonzalez-Flecha B. Cardiac oxidative stress and dysfunction by fine concentrated ambient particles (CAPs) are mediated by angiotensin-II. *Inhal Toxicol*. 2010;22(11):963-972. PMID: 3771644.
32. O'Donnell MJ, Fang J, Mittleman MA, Kapral MK, **Wellenius GA**. Fine Particulate Air Pollution (PM_{2.5}) and the Risk of Acute Ischemic Stroke: Results from the Registry of the Canadian Stroke Network. *Epidemiology*. 2011;22(3):422-431. PMID: 3102528.
33. **Wellenius GA**, Diaz EA, Gupta T, Ruiz PA, Long M, Kang C-M, Coull BA, Godleski JJ. Electrocardiographic and Respiratory Responses to Coal-Fired Power Plant Emissions in a Rat Model of Acute Myocardial Infarction: Results from the Toxicological Evaluation of Realistic Emissions of Source Aerosols Study. *Inhal Toxicol*. 2011;Suppl 2:84-94. PMID: 3632641.
34. Coull BA, **Wellenius GA**, Gonzalez-Flecha B, Diaz EA, Koutrakis P, Godleski JJ. The Toxicological Evaluation of Realistic Emissions of Source Aerosols Study: Statistical Methods. *Inhal Toxicol*. 2011;Suppl 2:31-41. PMID: 3641936.
35. Wang SV, Coull BA, Schwartz J, Mittleman MA, **Wellenius GA**. Potential for Bias in Case-Crossover Studies with Shared Exposures Analyzed Using SAS. *Am J Epidemiol*. 2011;174(1):118-24. PMID: 3133813.
36. Wang S, Linkletter C, Maclure M, Dore D, Mor V, Buka S, **Wellenius GA**. Future Cases as Present Controls to Adjust for Exposure Trend Bias in Case-only Studies. *Epidemiology*. 2011;22(4):568-574. PMID: 3110688.

37. **Wellenius GA**, Burger MR, Coull BA, Schwartz J, Suh HH, Koutrakis P, Schlaug G, Gold DR, Mittleman MA. Ambient Air Pollution and the Risk of Acute Ischemic Stroke. *Arch Intern Med*. 2012;172(3):229-34. PMID: 3639313.
38. Nearing BD, **Wellenius GA**, Mittleman MA, Josephson ME, Burger AE, Verrier RL. Crescendo in Depolarization and Repolarization Heterogeneity Heralds Development of Ventricular Tachycardia in Hospitalized Patients with Decompensated Heart Failure. *Circ Arrhythm Electrophysio*. 2012;5(1):84-90. PMID: 3296063.
39. Savitz DA, Stein CR, Bartell SM, Elston B, Gong J, Shin H-M, **Wellenius GA**. Perfluorooctanoic Acid Exposure and Pregnancy Outcome in a Highly Exposed Community. *Epidemiology*. 2012;23:386-392. PMID: 3321117.
40. **Wellenius GA**, Wilhelm-Benartzi CS, Wilker EH, Coull BA, Suh HH, Koutrakis P, Lipsitz LA. Ambient Particulate Matter and the Response to Orthostatic Challenge in the Elderly: The MOBILIZE Boston Study. *Hypertension*. 2012;59(3):558-63. PMID: 3286019.
41. Mostofsky E, Schwartz J, Coull BA, Koutrakis P, **Wellenius GA**, Suh HH, Gold DR, Mittleman MA. Modeling the Association between Particle Constituents of Air Pollution and Health Outcomes. *Am J Epidemiol*. 2012;176(4):317-326. PMID: 3491968.
42. Savitz DA, Stein CR, Elston B, **Wellenius GA**, Bartell SM, Shin H-M, Vieira VM, Fletcher T. Relationship of Perfluorooctanoic Acid Exposure to Pregnancy Outcome Based on Birth Records in the Mid-Ohio Valley. *Environ Health Perspect*. 2012;120:1201-1207. PMID: 3440089.
43. Kusha M, Masse S, Farid T, Urch B, Silverman F, Brook RD, Gold DR, Mangat I, Speck M, Nair K, Poku K, Meyer C, Mittleman MA, **Wellenius GA**, Nanthakumar K. Controlled Exposure Study of Air Pollution and T Wave Alternans in Volunteers without Cardiovascular Disease. *Environ Health Perspect*. 2012;120:1157-1161. PMID: 3440072.
44. Wilker EH, Yeh G, **Wellenius GA**, Davis RB, Phillips RS, Mittleman MA. Ambient temperature and biomarkers of heart failure: a repeated measures analysis. *Environ Health Perspect*. 2012;120:1083-1087. PMID: 3440076.
45. O'Connor A, **Wellenius G**. Rural-Urban Disparities in the Prevalence of Diabetes and Coronary Heart Disease. *Public Health*. 2012;126:813-820.
46. **Wellenius GA**, Boyle LD, Coull BA, Milberg WP, Gryparis A, Schwartz J, Mittleman MA, Lipsitz LA. Residential Proximity to Major Roadway and Cognitive Function in Community-Dwelling Seniors: Results from the MOBILIZE Boston Study. *J Am Geriatr Soc*. 2012;60:2075-2080. PMID: 3498530.
47. Zhou J, **Wellenius GA**, Michaud DS. Environmental tobacco smoke and the risk of pancreatic cancer among non-smokers: a meta-analysis. *Occup Environ Med*. 2012;69:853-857. PubMed PMID: 22843437.
48. McCracken JP, **Wellenius GA**, Bloomfield GS, Brook RD, Tolunay HE, Dockery, DW, Rabadan-Diehl C, Checkley W, Rajagopalan S. Household Air Pollution from Solid Fuel Use: Evidence for Links to CVD. *Global Heart*. 2012;7:223-234.
49. Baja ES, Schwartz JD, Coull BA, **Wellenius GA**, Vokonas PS, Suh HH. Structural equation modeling of the inflammatory response to traffic air pollution. *J Expo Sci Environ Epidemiol*. 2013;23(3):268-74. PubMed PMID: 23232970.

50. Watkins DJ, Josson J, Elston B, Bartell SM, Shin H-M, Vieira VM, Savitz DA, Fletcher T, **Wellenius GA**. Exposure to perfluoroalkyl acids and markers of kidney function among children and adolescents living near a chemical plant. *Environ Health Perspect*. 2013;121:625-630. PMID: 3673193.
51. **Wellenius GA**, Boyle LD, Wilker EH, Sorond FA, Coull BA, Koutrakis P, Mittleman MA, Lipsitz LA. Ambient fine particulate matter alters cerebral hemodynamics in the elderly. *Stroke*. 2013;44:1532-1536. PMID: 3722046.
52. Lue S-H, **Wellenius GA**, Wilker EH, Mittleman MA. Chronic Exposure to Traffic Pollution is Associated with Reduced Glomerular Filtration Rate. *J Epidemiol Commun Health*. 2013;67:629-634. PMID: 4167787.
53. Baja ES, Schwartz JD, Coull BA, **Wellenius GA**, Vokonas PS, Suh HH. Structural Equation Modeling of Parasympathetic and Sympathetic Response to Traffic Air Pollution in a Repeated Measures Study. *Environ Health*. 2013;12:81. PMID: 3907044.
54. Wilker EH, Mostofsky E, Lue S-H, Gold D, Schwartz J, **Wellenius GA**, Mittleman MA. Residential Proximity to High Traffic Roadways and Post-Stroke Mortality. *J Stroke Cerebrovasc Dis*. 2013;22:e366-372. PMID: 4066388.
55. Watkins DJ, **Wellenius GA**, Butler RA, Bartell SM, Fletcher T, Kelsey KT. Associations between serum perfluoroalkyl acids and LINE-1 DNA methylation. *Environ Int*. 2014;63:71-76. PMID: 24263140.
56. Wang Y, Eliot M, Koutrakis P, Gryparis G, Schwartz J, Coull BA, Mittleman MA, Milberg WP, Lipsitz LA, **Wellenius GA**. Ambient Air Pollution and Prevalence of Depressive Symptoms in the Elderly. *Environ Health Perspect*. 2014;122:553-558. PMID: 4050499.
57. Kingsley S, Eliot MN, Carlson L, Finn J, Macintosh D, Suh, HH, **Wellenius GA**. Proximity of US Schools to Major Roadways: a Nationwide Assessment. *J Expo Sci Environ Epidemiol*. 2014;24(3):253-9. PMID: 4179205.
58. Mostofsky E, Wilker EH, Schwartz J, Zanobetti A, **Wellenius GA**, Gold DR, Mittleman MA. Short-Term Changes in Ambient Temperature and Risk of Ischemic Stroke Onset. *Cerebrovasc Dis Extra*. 2014;4:9-18. PMID: 3934677.
59. Rajkumar S, Schmidt-Trucksäss A, **Wellenius GA**, Bauer GF, Huynh CK, Moeller A, Rössli M. The Effect of Workplace Smoking Bans on Heart Rate Variability and Pulse Wave Velocity of Non-Smoking Hospitality Workers. *Int J Public Health*. 2014;59:577-585. PMID: 4179883.
60. Savitz DA, Klebanoff MA, **Wellenius GA**, Jensen ET, Longnecker MP. Persistent Organochlorines and Hypertensive Disorders of Pregnancy. *Environ Res*. 2014;132:1-5. PMID: 4061469.
61. Lagat DK, Delong AK, **Wellenius GA**, Carter EJ, Bloomfield GS, Velazquez EJ, Hogan J, Kimaiyo S, Sherman CB. Factors Associated with Isolated Right Heart Failure in Women: A Pilot Study from Western Kenya. *Global Heart*. 2014;9(2):249-254. PMID: PMC4405788.
62. Gronlund CJ, Zanobetti A, Schwartz J, **Wellenius GA**, O'Neill MS. Heat, Heat Waves and Hospital Admissions among the Elderly in the United States, 1992-2006. *Environ Health Perspect*. 2014;122(11):1187-1192. PMID: 4216145.

63. Wilker EH, Wu C-D, McNeely E, Mostofsky E, Spengler J, **Wellenius GA**, Mittleman MA. Green Space and Mortality Following Ischemic Stroke. *Env Research*. 2014;133C:42-48. PMID: 4151551.
64. Wang Y, Eliot M, Kuchel G, Schwartz J, Coull BA, Mittleman MA, Lipsitz LA, **Wellenius GA**. Long-term Exposure to Ambient Air Pollution and Serum Leptin in Older Adults: Results from the MOBILIZE Boston Study. *J Occup Env Med*. 2014;56:e73-77. PMID: 4157313.
65. Shimbo D, Wang L, LaMonte MJ, Allison M, **Wellenius GA**, Bavry AA, Martin LW, Aragaki A, Newman JD, Swica Y, Rossouw JE, Manson JE, Wassertheil-Smoller S. The Effect of Hormone Therapy on Mean Blood Pressure and Visit-to-Visit Blood Pressure Variability in Postmenopausal Women: Data from the Women's Health Initiative Randomized Controlled Trials. *J Hyperten*. 2014;32:2071-2081. PMID: 4180281.
66. Wang Y, Eliot MN, **Wellenius GA**. Short-Term Changes in Ambient Particulate Matter and Risk of Stroke: a Systematic Review and Meta-analysis. *J Am Heart Assoc*. 2014;3:e000983. PMID: 4310387.
67. Kirwa K, Eliot MN, Wang Y, Adams MA, Morgan CG, Kerr J, Norman GJ, Eaton, CB, Allison MA, **Wellenius GA**. Residential Proximity to Major Roadways and Prevalent Hypertension among Post-Menopausal Women: Results from the Women's Health Initiative San Diego Cohort. *J Am Heart Assoc*. 2014;3:e000727. PMID: 4323802.
68. Savitz DA, Elston B, Bobb JF, Clougherty JE, Dominici F, Ito K, Johnson S, McAlexander T, Ross Z, Schmoor JLC, Matte TD, **Wellenius GA**. Ambient Fine Particulate Matter, Nitrogen Dioxide, and Hypertensive Disorders of Pregnancy in New York City. *Epidemiology*. 2015;26(5):748-57. PMID: PMC4719124.
69. Joyce N, **Wellenius GA**, Dore DD, Newburger JW, Zacharia JP. Patterns of Lipid Lowering Therapy among Children ages 8 to 20 years, 2005 – 2010. *J Pediatr*. 2015;167(1):113-119.e1. PMID: PMC4485924.
70. Tchalla AE, **Wellenius GA**, Trivison TG, Gagnon M, Iloputaife I, Dantoine T, Sorond FA, Lipsitz LA. Circulating Vascular Cell Adhesion Molecule-1 (sVCAM-1) is Associated with Cerebral Blood Flow Dysregulation, Mobility Impairment, and Injurious Falls in Older Adults. *Hypertension*. 2015;66(2):340-6. PMID: PMC4807019.
71. Tchalla AE, **Wellenius GA**, Sorond FA, Trivison TG, Dantoine T, Lipsitz LA. Elevated Circulating Vascular Cell Adhesion Molecule-1 (sVCAM-1) is Associated with Concurrent Depressive Symptoms and Cerebral White Matter Hyperintensities in Older Adults. *BMC Geriatr*. 2015;15:62. PMID: PMC4453284.
72. Chen J-C, Wang X, **Wellenius GA**, Serre ML, Driscoll I, Casanova R, McArdle JJ, Manson JE, Chui HC, Espeland MA. Ambient Air Pollution and Neurotoxicity on Brain Structure: Evidence from Women's Health Initiative Memory Study. *Ann Neurol*. 2015;78(3):466-76. PMID:4546504
73. Peel JL, Baumgartner J, **Wellenius GA**, Clark ML, Smith KR. Are Randomized Trials Necessary to Advance Epidemiologic Research on Household Air Pollution? *Curr Epidemiol Rep*. 2015;2(4):263-270.
74. Pan W-C, Eliot MN, Koutrakis P, Coull BA, Sorond F, **Wellenius GA**. Ambient Temperature and Cerebrovascular Hemodynamics in the Elderly: The MOBILIZE Boston Study. *PLoS One*. 2015;10(8):e0134034. PMID: PMC4721538.

75. Lu F, Zhou L, Xu Y, Zheng T, Guo Y, **Wellenius GA**, Bassig BA, Chen X, Wang H, Zheng X. Short-Term Effects of Air Pollution on Daily Mortality and Years of Life Lost in Nanjing, China. *Sci Total Environ*. 2015;536:123-9.
76. Kingsley S, Eliot M, Wang Y, Whitsel EA, Eaton CB, Allison MA, Johnson KC, Coull BA, Margolis H, Margolis K, Wu W, Mu L, Hou L, Manson JE, **Wellenius GA**. Residential proximity to major roadways and incident hypertension in post-menopausal women. *Environ Res*. 2015;142:522-8. PMID: PMC4609282.
77. Coull BA, Bobb JF, **Wellenius GA**, Kioumourtzoglou MA, Mittleman MA, Koutrakis P, Godleski JJ. Part 1. Statistical Learning Methods for the Effects of Multiple Air Pollution Constituents. *Res Rep Health Eff Inst*. 2015;(183 Pt 1-2):5-50.
78. Tabb LP, Tchetgen Tchetgen E, **Wellenius GA**, Coull BA. Marginalized Zero-Altered Models for Longitudinal Count Data. *Stat Biosci*. 2016;8:181-203. PMID: PMC5111636.
79. Kingsley SL, Eliot MN, Gold J, Vanderslice R, **Wellenius GA**. Current and Projected Heat-Related Morbidity and Mortality in Rhode Island. *Environ Health Perspect*. 2016;124(4):460-7. PMID: PMC4829994.
80. Lacy ME, **Wellenius GA**, Carnethon MR, Loucks EB, Carson AP, Luo X, Kiefe CI, Gjelsvik A, Gunderson EP, Eaton CB, Wu W-C. Racial Differences in the Performance of Existing Risk Prediction Models for Incident Type 2 Diabetes: The CARDIA Study. *Diabetes Care*. 2016;39:285-91. PMID: PMC4722943.
81. Gronlund CJ, Zanobetti A, **Wellenius GA**, Schwartz JD, O'Neill MS. Vulnerability to Renal, Heat and Respiratory Hospitalizations during Extreme Heat among U.S. Elderly. *Clim Chang*. 2016;136(3):631-645. PMID: PMC4956383.
82. Joyce N, Eaton CB, **Wellenius GA**, Trivedi A, Zachariah J. Patterns and Predictors of Medication Adherence to Lipid Lowering Therapy in Children ages 8 to 20. *J Clin Lipidol*. 2016;10(4):824-832 e2. PMID: PMC5226262.
83. Kinglsey SL, Eliot MN, Whitsel EA, Huang YT, Kelsey KT, Marsit CJ, **Wellenius GA**. Maternal Residential Proximity to Major Roadways, Birth Weight, and Placental DNA Methylation. *Environ Int*. 2016;92-93:43-49. PMID: PMC4913202.
84. Weaver AM, **Wellenius GA**, Wu W-C, Hickson DA, Kamalesh M, Wang Y. Residential Proximity to Major Roadways Is Not Associated with Cardiac Function in African Americans: Results from the Jackson Heart Study. *Int J Environ Res Public Health*. 2016;13(6). PMID: PMC4924038.
85. Wang Y, **Wellenius GA**, Hickson DA, Gjelsvik A, Eaton CB, Wyatt SB. Residential Proximity to Traffic-related Pollution and Atherosclerosis in Four Vascular Beds among African American Adults: Results from the Jackson Heart Study (JHS). *Am J Epidemiol*. 2016;In Press. PMID: PMC5141947.
86. Tchalla AE, **Wellenius GA**, Trivison TG, Gagnon M, Iloputaife I, Dantoine T, Sorond FA, Lipsitz LA. Elevated Soluble Vascular Cell Adhesion Molecule-1 is Associated with Cerebrovascular Resistance and Cognitive Function. *J Gerontol A Biol Sci Med Sci*. 2017;72(4):560-6.

87. Lacy ME, **Wellenius GA**, Sumner AE, Correa A, Carnethon MR, Liem RI, Wilson JG, Sacks DB, Jacobs Jr DR, Carson AP, Luo X, Gjelsvik A, Reiner AP, Naik RP, Liu S, Musani SK, Eaton CB, Wu W-C. Association of Sickle Cell Trait with Hemoglobin A1c in African Americans. *JAMA*. 2017;317(5):507-515. PMID: PMC5713881.
88. Weaver AM, **Wellenius GA**, Wu W-C, Hickson DA, Kamalesh M, Wang Y. Residential Distance to Major Roadways and Cardiac Structure in African Americans: Cross-Sectional Results from the Jackson Heart Study. *Environ Health*. 2017;16(1):21. PMID: PMC5341411.
89. **Wellenius GA**, Eliot MN, Bush KF, Holt D, Lincoln RA, Smith AE, Gold J. Heat-Related Morbidity and Mortality in New England: Evidence for Local Policy. *Environ Res*. 2017;156:845-53.
90. Joyce NR, Zachariah JP, Eaton CB, Trivedi AN, **Wellenius GA**. Statin Use and the Risk of Type 2 Diabetes Mellitus in Children and Adolescents. *Acad Pediatr*. 2017;17(5):515-22. PMID: PMC5499509.
91. Kulick ER, **Wellenius GA**, Kaufman JD, DeRosa JT, Kinney P, Cheung K, Wright C, Sacco RL, Elkind MS. Long-term exposure to ambient air pollution and subclinical cerebrovascular disease in NOMAS (the Northern Manhattan Study). *Stroke*. 2017;48(7):1966-8. PMID: PMC5487287.
92. Honda T, Eliot MN, Eaton CB, Whitsel E, Stewart JD, Mu L, Suh H, Szpiro A, Kaufman JD, Vedal S, **Wellenius GA**. Long-term exposure to residential ambient fine and coarse particulate matter and incident hypertension in post-menopausal women. *Environ Int*. 2017;105:79-85. PMID: PMC5532534.
93. Kingsley SL, Deyssenroth MA, Kelsey KT, Abu Awad Y, Kloog I, Schwartz JD, Lambertini L, Chen J, Marsit CJ, **Wellenius GA**. Maternal Residential Air Pollution and Placental Imprinted Gene Expression. *Environ Int*. 2017;108:204-11. PMID: PMC5623128.
94. Weinberger KR, Haykin L, Eliot MN, Schwartz JD, Gasparrini A, **Wellenius GA**. Projected temperature-related deaths in ten large U.S. metropolitan areas under different climate change scenarios. *Environ Int*. 2017;107:196-204. PMID: PMC5575805.
95. Kingsley SL, Eliot MN, Glazer K, Abu Awad Y, Schwartz JD, Savitz DA, Kelsey KT, Marsit CJ, **Wellenius GA**. Maternal ambient air pollution, preterm birth, and markers of fetal growth in Rhode Island: Results of a hospital-based linkage study. *J Epidemiol Community Health*. 2017;71(12):1131-1136. PMID: PMC5879771.
96. Agarwal A, Kirwa K, Eliot MN, Alenezi F, Menya D, Mitter S, Velazquez EJ, Vedanthan R, **Wellenius GA**, Bloomfield GS. Household air pollution is associated with altered cardiac function among women in western Kenya. *Am J Respir Crit Care Med*. 2018;197(7):958-61. PMID: PMC6020413.
97. Weinberger KR, Kirwa K, Eliot MN, Gold J, Suh HH, **Wellenius GA**. Projected Changes in Temperature-related Morbidity and Mortality in Southern New England. *Epidemiology*. 2018;29(4):473-481. PMID: PMC5980746.
98. Vivanco-Hidalgo RM, **Wellenius GA**, Basagana X, Cirach M, Gonzalez AG, Ceballos P, Zabalza A, Jimenez-Conde J, Soriano-Tarraga C, Giralte-Steinhauer E, Alastuey A, Querol X, Sunyer J, Roquer J. Short-term exposure to traffic-related air pollution and ischemic stroke onset in Barcelona, Spain. *Environ Res*. 2018;162:160-165.

99. Curto A, Donaire-Gonzalez D, Barrera-Gomez J, Marshall JD, Nieuwenhuijsen MJ, **Wellenius GA**, Tonne C. Performance of low-cost monitors to assess household air pollution. *Environ Res*. 2018;163:53-63.
100. Glazer KB, Eliot MN, Danilack VA, Carlson L, Phipps MG, Dadvand P, Savitz DA, **Wellenius GA**. Residential green space and birth outcomes in a coastal setting. *Environ Res*. 2018;163:97-107. PMID: PMC5878729.
101. Kulick EN, **Wellenius GA**, Boehme AK, Sacco RL, and Elkind MS. Residential proximity to major roadways and risk of incident ischemic stroke in the Northern Manhattan Study. *Stroke*. 2018;49(4):835-41. PMID: PMC5871599.
102. Peters JL, Zevitas C, Redline S, Hastings A, Sizov N, Hart JE, Levy JI, Roof CD, **Wellenius GA**. Aviation Noise and Cardiovascular Health in the United States: A Review of the Evidence and Research Directions. *Curr Epidemiol Rep*. 2018;5(2):140-152. PMID: PMC6261366.
103. Tchalla A, **Wellenius GA**, Boyer S, Trivison TG, Habtemariam D, Gagnon M, Iloputaife I, Sorond FA, Dantoine T, Lipsitz LA. High levels of an endothelial dysfunction marker (sVCAM-1) are associated with injurious and recurrent falls and mortality over a 5-year interval in an older population. *Exp Gerontol*. 2018;106:1-7.
104. Weinberger K, Zanobetti A, Schwartz JD, **Wellenius GA**. Effectiveness of National Weather Service Heat Alerts in Preventing Mortality in 20 US Cities. *Environ Int*. 2018;116:30-8. PMID: PMC5970988.
105. Martinez-Solanas E, Lopez-Ruiz M, **Wellenius GA**, Gasparrini A, Sunyer J, Benavides FG, Basagaña X. Evaluation of the Impact of Ambient Temperatures on Occupational Injuries in Spain. *Environ Health Perspect*. 2018;126(6):067002.
106. Choe S-A, Kauderer S, Eliot MN, Glazer KB, Kingsley SL, Carlson L, Awad YA, Schwartz JD, Savitz DA, **Wellenius GA**. Air Pollution, Land Use, and Complications of Pregnancy. *Sci Total Environ*. 2018;645:1057-64.
107. Kalloo G, **Wellenius GA**, McCandless L, Calafat AM, Sjodin A, Karagas M, Chen A, Yolton K, Lanphear BP, Braun JM. Profiles and Predictors of Environmental Chemical Mixture Exposure among Pregnant Women: The Health Outcomes and Measures of the Environment Study. *Environ Sci Technol*. 2018;52(17):10104-10113.
108. Sears CG, Braun JM, Ryan PH, Xu Y, Werner EF, Lanphear BP, **Wellenius GA**. The association of traffic-related air and noise pollution with maternal blood pressure and hypertensive disorders of pregnancy in the HOME study cohort. *Environ Int*. 2018;121(Pt 1):574-581. PMID: PMC6252254.
109. Wu W-C, Lacy ME, Correa A, Carnethon M, Reiner AP, Eaton CB, **Wellenius GA**. Association Between Hemoglobin A1c and Glycemia in African Americans with and without Sickle Cell trait and Whites, Results from CARDIA and the Jackson Heart Study. *J Diabetes Treat*. 2018;2018(6):1-5. DOI:10.29011/2574-7568. 000063.E
110. Weaver AM, Wang Y, **Wellenius GA**, Young B, Boyle LD, Hickson DA, Diamantidis CJ. Long-term exposure to ambient air pollution and renal function in African Americans: the Jackson Heart Study. *J Expo Sci Environ Epidemiol*. 2018. In Press.

111. Curto A, **Wellenius GA**, Milà C., Sanchez M, Ranzani O, Marshall JD, Kulkarni B, Bhogadi S, Kinra S, Tonne C. Ambient particulate air pollution and blood pressure in peri-urban India. *Epidemiology*. 2018. In Press.
112. Spangler K, Weinberger K, **Wellenius GA**. Suitability of gridded climate datasets for use in environmental epidemiology. *J Expo Sci Environ Epidemiol*. 2018. In Press.
113. Fisher JA, Puett RC, Laden F, **Wellenius GA**, Sapkota A, Liao D, Yanosky JD, Carter-Pokras O, He X, Hart JE. Case-crossover Analysis of Short-term Particulate Matter Exposures and Stroke in the Health Professionals Follow-up Study. *Environ Int*. In Press.
114. Goedel WC, Marshall BDL, Green TC, Spangler KR, Alexander-Scott N, **Wellenius GA**, Weinberger KR. Cold weather and risk of opioid-involved overdose deaths: A case-crossover study. *Epidemiology*. In Press.

e. Non-Refereed Journal Articles

1. Verrier RL, Kumar K, **Wellenius GA**. Predicting cardiac resynchronization therapy response based on endothelial dysfunction: Causal link or fellow traveler? *Heart Rhythm*. 2008;5(9):1236-7.
2. Nearing BD, **Wellenius GA**, Mittleman MA, Josephson ME, Burger AE, Verrier RL. Response to Letter Regarding Article: "Crescendo in depolarization and repolarization heterogeneity heralds development of ventricular tachycardia in hospitalized patients with decompensated heart failure". *Circ Arrhythm Electrophysio*. 2012;5:e79.
3. **Wellenius GA**, Koutrakis P, Wang Y. Response to Letter Regarding Article: "Ambient Air Pollution and Prevalence of Depressive Symptoms in the Elderly". *Environ Health Perspect*. 2015;123(5):A114-5.
4. Lacy ME, **Wellenius GA**, Wu WC. Measurement of Hemoglobin A1c in Patients With Sickle Cell Trait-Reply. *JAMA*. 2017;317(21):2237-8.
5. Savitz DA, **Wellenius GA**. Exposure Biomarkers Indicate More than Just Exposure. *Am J Epidemiol*. 2018;187(4):803-5.
6. Savitz DA, **Wellenius GA**. Response to Braun. *Am J Epidemiol*. 2018;187(4):896.
7. Harris DA, **Wellenius GA**. Stay or Go: Nursing homes' natural disaster response in a changing climate. *J Nurs Home Res Sci*. In Press.
8. **Wellenius GA**, Sheffield PE. The US Government just published a new report detailing the impacts of climate change on Americans: Does it matter? *Epidemiology*. In Press.

9. Invited Presentations

National

- 2003 Cardiovascular Effects of Inhaled Ambient Particles
Physiology Program, Harvard School of Public Health
- 2004 Cardiovascular Effects of Inhaled Ambient Particles
Pathology Department, Brigham and Women's Hospital

- 2005 Effects of Air Pollution in Patients with Congestive Heart Failure
Physiology Program, Harvard School of Public Health
- 2005 Effects of Air Pollution in Subjects with Heart Failure
Cardiovascular Division, Beth Israel Deaconess Medical Center
- 2005 Case-crossover Methods for Studying the Effects of Environmental Exposures
Department of Epidemiology and Preventive Medicine, University of Maryland
- 2006 Effects of Ambient Air Pollution in Patients with Heart Failure: A Pilot Study
Department of Environmental Health, Harvard School of Public Health
- 2006 Air Pollution as a Trigger of Acute Cardiovascular Events: Heart Failure and Stroke
Southern California EHS Center, University of Southern California
- 2007 Ambient Air Pollution and the Risk of Acute Ischemic Stroke
Department of Environmental Health, Harvard School of Public Health
- 2007 Ambient Air Pollution and the Risk of Acute Ischemic Stroke
Department of Environmental and Community Medicine, UMDNJ
- 2008 Environmental Determinants of Cerebrovascular Disease
Department of Environmental Health, Harvard School of Public Health
- 2010 Air Pollution: A Novel Risk Factor for Acute Ischemic Stroke?
Department of Epidemiology, University of Alabama Birmingham School of Public Health
- 2010 Mechanistic Evidence Linking Pollutant Exposure to Vascular Phenomena
NIEHS-EPA Workshop on Air Pollution and Cardiovascular Disease
- 2012 Air Pollution and Brain Health in Seniors
USC/UCLA Southern California Environmental Health Sciences Center
- 2012 Air Pollution and Stroke
Department of Environmental and Occupational Health Sciences, University of Washington School of Public Health
- 2014 Air Pollution, Stroke, and Subclinical Cerebrovascular Disease
Department of Epidemiology, Columbia University School of Public Health
- 2014 Air Pollution and Brain Health: A Vascular Perspective
Department of Environmental Health, Boston University School of Public Health
- 2014 Air Pollution and Cardiovascular Health: Evidence of Effects Beyond the Heart
Air Pollution Workshop, University of Buffalo
- 2014 Air Pollution, Stroke, and Subclinical Cerebrovascular Disease
Division of Gerontology, Beth Israel Deaconess Medical Center, Boston, MA
- 2014 Air Pollution and Brain Health: A Vascular Perspective
Department of Environmental Health, University of Michigan School of Public Health
- 2017 Climate Change and Health in New England: Connecting Research to Public Health Practice; Harvard Global Health Institute
- 2017 Climate Change and Health in New England: Connecting Research to Public Health Practice; Environmental Health & Engineering, Inc., Newton, MA

- 2017 Studying Aircraft Noise and Cardiovascular Disease: What to Measure
Volpe National Transportation Systems Center, US Department of Transportation
- 2018 Health Risks and Health Care Utilization Associated with Continued Climate Change
OptumLabs Research and Translation Forum

International

- 2007 Pollution and Heart Disease: The Emerging Science of Environmental Cardiology
Population Health Research Institute, McMaster University, Hamilton, Canada
- 2008 Air Pollution and Cardiovascular Health
Institute for Clinical and Evaluative Sciences, University of Toronto, Canada
- 2009 Ambient Air Pollution and the Risk of Acute Ischemic Stroke
Population Health Research Institute, McMaster University, Hamilton, Canada
- 2009 Environmental Determinants of Cerebrovascular Disease
Institute for Clinical and Evaluative Sciences, University of Toronto, Canada
- 2015 Air Pollution, Temperature, and Cerebrovascular Disease
Center for Research in Environmental Epidemiology (CREAL), Barcelona, Spain
- 2015 Air Pollution, Temperature, and Cerebrovascular Disease
Karolinska Institute, Stockholm, Sweden
- 2016 Temperature Related Morbidity and Mortality in a Warming World: Connecting
Research to Policy
Center for Research in Environmental Epidemiology (CREAL), Barcelona, Spain
- 2017 Current and Projected Temperature-Related Morbidity and Mortality in the US: From
Attributable Number to Prevention
Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain
- 2018 Health Impacts of Heat: Adapting to a Changing Climate
Simon Fraser University and Pacific Institute for Climate Solutions, British Columbia,
Canada
- 2018 Using National Data to Inform Local Health Policy: Adapting to Heat in a Changing
Climate
Karolinska Institute, Stockholm, Sweden

Conference Presentations

- 2002 Cardiovascular Effects of Particulate Air Pollution
Comision Nacional del Medio Ambiente, Government of Chile, Santiago, Chile
- 2006 Particulate Air Pollution and Hospital Admissions for Congestive Heart Failure in Eight
US Cities; US Environmental Protection Agency
- 2008 Onset Time Misclassification Leads to Underestimation of Acute Health Effects
International Society for Environmental Epidemiology Annual Mtg, Pasadena, CA
- 2008 How Weather Influenced West Nile Virus in the United States (2001-2005)
International Society for Environmental Epidemiology Annual Mtg, Pasadena, CA

- 2009 Temperature and the Risk of Acute Ischemic Stroke: Results from the Registry of the Canadian Stroke Network
International Society for Environmental Epidemiology Meeting, Dublin, Ireland
- 2009 Diabetes Mellitus Modifies the Association between Particulate Air Pollution and Acute Ischemic Stroke: Results from the RCSN
International Society for Environmental Epidemiology Meeting, Dublin, Ireland
- 2011 Chronic Exposure to Traffic Pollution Is Associated with Reduced Glomerular Filtration Rate; International Society for Environmental Epidemiology Meeting, Barcelona, Spain
- 2011 Exposure to Ambient Fine Particulate Matter Alters Cerebral Blood Flow in the Elderly: The MOBILIZE Boston Study
International Society for Environmental Epidemiology Meeting, Barcelona, Spain
- 2011 Traffic Pollution and Cognitive Function in Community-Dwelling Seniors: The MOBILIZE Boston Study
International Society for Environmental Epidemiology Meeting, Barcelona, Spain
- 2012 When Biomarkers of Exposure Lead to Biased Health Effects Estimates: An Introduction
International Society for Environmental Epidemiology Meeting, Columbia, SC
- 2013 Associations between Serum Perfluoroalkyl Acids and LINE-1 DNA Methylation in a Highly Exposed Population
International Society of Environmental Epidemiology Meeting, Basel, Switzerland
- 2014 Reducing Exposure Misclassification in Environmental Epidemiology: Is it Always Desirable and What is the Impact on Inferences? / Symposium Discussant
International Society for Environmental Epidemiology Meeting, Seattle, WA
- 2016 Long-Term Exposure to Ambient Particulate Matter and Incident Stroke: Results from the Women's Health Initiative
International Society for Environmental Epidemiology, Rome, Italy
- 2018 Reducing Morbidity and Mortality Due to Extreme Heat: A Call for Evidence-Based Interventions
International Society for Environmental Epidemiology, Ottawa, Canada
- 2018 Cardiovascular and Respiratory Effects of a Cookstove Intervention in Two Rural Communities in Western Kenya
International Society for Environmental Epidemiology, Ottawa, Canada
- 2018 The Impact of the Natural and Built Environment on Fetal Growth
Urban Transitions Conference, Sitges, Spain

Other Presentations

- 2010 Invited speaker for *Science Seminar for Journalists*, Superfund Research Program, Brown University, Providence, RI
- 2010 Air Pollution and Stroke
EPA STAR Applied Science Webinar Series
- 2011 Invited testimony before **US House of Representatives** Subcommittee on Energy and Power hearing focusing on H.R. 1633, the "Farm Dust Regulation Prevention Act of 2011."

- 2012 Keynote address for US EPA's 20th National Air Quality System Conference, Providence, RI
- 2014 Invited testimony before **US Senate** Subcommittee on Clean Air and Nuclear Safety hearing on "Oversight Hearing: EPA's Proposed National Ambient Air Quality Standard for Ozone".

10. Research Grants

a. Current

Extramural

- 2012-2017 Ambient Air Pollution and Incident Stroke (PI: Wellenius)
(NCE) NIH R01 ES020871
Role: PI
- 2016-2020 Aircraft Noise Exposure and Cardiovascular Disease (PI: Peters)
NIH R01 ES025791
Role: Subcontract PI
- 2016-2021 Environmental Determinants of Pathological Brain Aging in WHI Memory (PI: Chen)
NIH R01 ES025888
Role: Subcontract PI
- 2016-2020 Urinary Cadmium and Risk of Incident Cardiovascular Disease (PI: Meliker)
NIH R01 ES026614
Role: Co-I/Subcontract PI
- 2018-2022 Evidence to Improve Heat Warning Effectiveness in Reducing Morbidity and Mortality
NIH R01 ES029950
Role: PI

Intramural

- 2017-2020 Health Effects of Long-Term Climatic Changes
Seed Funds from IBES, Brown University
Role: PI

Supportive

- 2017-2020 Public Health Effectiveness of National Weather Service Heat Warnings (PI: Weinberger)
NIH F32 ES027742
Role: Sponsor
- 2017-2021 Air Pollutants and Cardiovascular Risk: Investigating Thresholds with Pooled Cohorts and Electronic Health Records (PI: Kaufman)
NIH R01 ES027696
Role: Consultant

2018-2023 Physical Activity, Sedentary Behavior, and Venous Thromboembolism Risk
(PI: Harrington)
NIH K01 HL139997
Role: Mentor

b. Completed

2005-2007 Particulate Air Pollution and Acute Ischemic Stroke
NIH F32 ES001380
Role: PI

2007-2008 Air Pollution Health Effects in Heart Failure Pilot Study
Harvard-Thorndike General Clinical Research Center
Role: PI

2007-2009 Mechanisms of Air Pollution Health Effects in Subjects with Heart Failure
NIH K99 ES015774
Role: PI

2005-2010 Project 3: Effect of Ambient Particles on Acute Stroke Onset (PI: Mittleman)
NIH P01 ES009825
Role: Co-I

2009-2011 Ambient Particles and Ischemic and Hemorrhagic Stroke (PI: Mittleman)
NIH R03 ES017125
Role: Co-I

2009-2013 Mechanisms of Air Pollution Health Effects in Subjects with Heart Failure
NIH R00 ES015774
Role: PI

2010-2012 C8 and Reproductive and Neurodevelopmental Outcomes (PI: Savitz)
Garden City Group, Inc.
Role: Co-I

2011-2014 Indoor Air Pollution and its Resultant Health Effects in Kenya and Bangladesh
NIH NHLBI
Role: Subcontract PI

2012-2013 Traffic Pollution and Acute Cardiovascular Events in Post-Menopausal Women
Seed Funding from OVPR, Brown University
Role: PI

2013-2015 Pharmacotherapy Use Patterns in Children with Familial Hypercholesterolemia:
A Real-World Assessment. (PI: Nina Joyce)
American Heart Association Predoctoral Fellowship
Role: Sponsor

2013-2015 Residential Air Pollution and Preeclampsia (PI: Wellenius)
NIH R21 ES023073
Role: PI

- 2013-2016 Building Resilience Against Climate Effects in State, Territorial, and Tribal Health Departments. (PI: Robert Vanderslice)
US CDC 5UE1EH001040
Role: Co-I
- 2014-2016 Noise Health Research: Cardiovascular (PI: Peters)
US Federal Aviation Administration (FAA)
Role: Subcontract PI

c. Pending

- 2018-2022 Impact of Open Burn Pit Exposure on Respiratory and Cardiovascular Health among Military Veterans (PI: Savitz)
US Department of Defense
Role: Co-I
- 2019-2021 Acute Health Impacts of Different Types of Extreme Weather Hazards
NIH R21 ES030457
Role: PI
- 2019-2024 Brown Environmental Health Training Program
NIH T32 ES030321
Role: PI
- 2019-2022 Evaluation of Municipal Heat Action Plans (HAPs) in the United States
Wellcome Trust
Role: PI

11. Service

a. To the University

- 2009-2014 Member, Epidemiology Curriculum Committee, Department of Epidemiology
- 2009-2010 Member, Epidemiology Admissions Committee, Department of Community Health
- 2010-2012 Member, Environmental Epidemiology Faculty Search Committee, Department of Epidemiology
- 2011-2012 Member, Molecular Epidemiology Faculty Search Committee, Department of Epidemiology
- 2011-2015 Member, Brown School of Public Health Curriculum Committee
- 2012-2015 Member, Executive Committee, Brown University CardioPulmonary Training Program
- 2013-2015 Member, Epidemiology Department Steering Committee
- 2013-2015 Core Advisor, Master of Public Health Program
- 2013-2014 Member, Environmental Health Faculty Search Committee
- 2013-2014 Member, Brown University Environmental Change Task Force

2014	Member, Brown School of Public Health Strategic Planning Committee
2014-2015	Member, Epidemiology Department Chair Search Committee
2014-2015	Chair, Curriculum Committee, Department of Epidemiology
2016-Present	Member, Admissions Committee, Department of Epidemiology
2016-2018	Member, Brown SPH – RI Department of Health Advisory Committee
2017-Present	Chair, Curriculum Committee, Department of Epidemiology
2018	Member, Brown School of Public Health Curriculum Committee
2018	Acting Chair, Department of Epidemiology

b. To the Profession

Professional Committees

2012-2014	Member, Circulatory System Devices Panel, Center for Devices and Radiological Health, US Food and Drug Administration (FDA)
2012-2013	Member, Scientific Program Committee, 2013 Annual meeting of the International Society of Environmental Epidemiology (ISEE)
2013-2014	Member, Scientific Program Committee, 2014 Annual meeting of the International Society of Environmental Epidemiology (ISEE)
2014-2016	External Scientific Advisory Committee for Electric Power Research Institute (EPRI) project “Development of a Medicare Cohort Dataset for Use in Air Pollution Epidemiological Research”
2014 -2015	Member, Scientific Advisory Committee, Institute for Environmental Health and Related Product Safety, China CDC
2014-2015	Consultant to the Scientific Review Committee, Health Effects Institute (HEI), Boston, MA
2015-2018	Member, Scientific Review Committee, Health Effects Institute (HEI), Boston, MA
2016-2018	Member, Panel on Potential Human Health Effects of Surface Coal Mining Operations in Central Appalachia, National Academies of Sciences, Engineering, and Medicine (NASEM)
2016-2018	Co-Lead Chapter Author, 4 th National Climate Assessment, US Global Climate Research Program (USGCRP)
2017-2018	Member, Technical Organizing Committee, 2018 Joint meeting of the ISES and ISEE
2018-Present	Member, Panel on Traffic-Related Air Pollution, Health Effects Institute (HEI), Boston, MA

Grant Review

2009 – 2015	Ad hoc reviewer, Health Effects Institute, Boston, MA
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2010 – 2015	Ad hoc reviewer, NIEHS Center Pilot Project Grants, Harvard School of Public Health, Boston, MA
2012, 2013	Ad hoc reviewer, Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section, NIH
2012	Ad hoc reviewer, Health Research Board, Ireland
2012	Ad hoc reviewer, Fondazione Cassa di Risparmio di Padova e Rovigo, Padova, Italy
2012, 2013	Ad hoc reviewer, Pilot project grants, Southern California Environmental Health Sciences Center, University of Southern California, Los Angeles, CA
2014	Ad hoc reviewer, NIH Director's Early Independence Award
2014	Ad hoc reviewer, Colt Foundation, UK
2015	Reviewer for NIH-EPA P50 Centers of Excellence on Environmental Health Disparities Research Study Section
2016	Ad hoc reviewer, Medical Research Council, UK
2017	Ad hoc reviewer, NIH Special Emphasis Panel/Scientific Review Group 2018/01 ZES1 LAT-S (K8) 1
2018	Ad hoc reviewer, Community Influences on Health Behaviors (CIHB) Study Section, NIH (twice)
2018	Ad hoc reviewer, NIH Special Emphasis Panel/Scientific Review Group 2019/01 ZES1 JAB-D (K2) 1

Journal Manuscript Reviewer

American Journal of Cardiology • American Journal of Epidemiology • American Journal of Industrial Medicine • American Journal of Kidney Diseases • American Journal of Physiology: Heart and Circulatory Physiology • Annals of the New York Academy of Sciences • Arteriosclerosis, Thrombosis and Vascular Biology • BMC Health Services Research • Brazilian Journal of Medical and Biological Research • Cardiovascular Toxicology • Chronobiology International • Circulation • Environment International • Environmental Health • Environmental Health Perspectives • Environmental Science & Technology • European Journal of Clinical Investigation • Epidemiology • Inhalation Toxicology • International Journal of Biometeorology • International Journal of Cardiology • International Journal of Environmental Research and Public Health • Journal of Industrial Medicine • JAMA • Journal of Toxicology and Environmental Health • Lancet • New England Journal of Medicine • Occupational and Environmental Medicine • Science of the Total Environment • Stroke, Journal of the American Heart Association

Editorial Responsibilities

2014 – 2015	Invited Section Editor, <i>Current Epidemiology Reports</i>
2016 – Present	Associate Editor, <i>EPIDEMIOLOGY</i>
2016 – Present	Editorial Review Board, <i>Environmental Health Perspectives</i>
2017 – Present	Associate Editor, <i>ENVIRONMENTAL EPIDEMIOLOGY</i>

c. To the Community

2015 – 2017 Member, Rhode Island Executive Climate Change Coordinating Council (EC4) Advisory Board.

12. Teaching

Primary Instructor – Brown University

2010, 2012 – 2015, 2017 – 2019 PHP2200: Intermediate Methods in Epidemiology Research
Graduate Students, 3 hr/week for 15 weeks

2010, 2013 PHP2240: Methods in Environmental Epidemiology
Graduate Students, 3 hr/week for 15 weeks

2016 – 2018 PHP1710: Climate Change and Human Health
Graduate and undergraduate students, 3 hr/week for 14 weeks

Guest Lectures – Brown University

2010, 2018 PHP1070: The Burden of Disease in Developing Countries
Undergraduate Students, One 1.5-hr lecture

2010, 2011 PHP2180: Critical Epidemiology
Graduate Students, One 3-hr lecture

2011 PHP0320: Introduction to Public Health
Undergraduate Students, One 1-hr lecture

2011 – 2019 (except 2016) PHP2220E: Topics in Environmental and Occupational Epidemiology
Graduate Students, One 2.5-hr lecture

2012 PHP2250: Advanced Quantitative Methods in Epidemiologic Research
Graduate Students, One 2-hr lecture

2013 ENGN2920D: Environmental Technologies and Human Health
Graduate Students, One 1-hr lecture

2013, 2017 PHP2180: Interpretation and Application of Epidemiology
Graduate Students, One 2-hr lecture

2014, 2016 PHP0850: Fundamentals of Epidemiology
Undergraduate Students, One 1.5-hr lecture

2014 – 2018 PHP1700: Topics in Environmental Health
Graduate and Undergraduate Students, One 1.5-hr lecture

2018 PHP2710: Interdisciplinary Perspectives on Disability and Death in the Global South
Graduate Students, One 45-min lecture

Guest Teaching – Other Institutions

2007 – 2013 EPI208: Introduction to Clinical Epidemiology
Harvard School of Public Health
MPH Students, Two 2-hr group sessions and 1-on-1 meetings

2008,
2011 – 2014,
2018 ID215: Environmental/Occupational Epidemiology
Harvard School of Public Health
Graduate Students, One 2-hr lecture

2011 – 2013 Medical Residents Research Course
Beth Israel Deaconess Medical Center
Medicine Residents, One 2-hr group session

2018 – 2019 EH257: Water Pollution
Harvard School of Public Health
Graduate Students, One 2-hr lecture

Post-Doctoral Fellows

2011 – 2013 Dr. Yi Wang, Post-Doctoral Research Associate

2011 – 2013 Dr. Deborah Watkins, Post-Doctoral Research Associate

2014 – 2015 Dr. Wenchi Pan, Post-Doctoral Research Associate

2015 – 2019 Dr. Kate Weinberger, Post-Doctoral Research Associate/Fellow

2017 – Present Dr. Shengzhi Sun, Post-Doctoral Research Associate

2018 – Present Dr. Erin Kulick, Post-Doctoral Research Associate

PhD Students – Brown University

2010 - 2011	Thesis Committee Member	Anthony Nunes Department of Epidemiology Degree awarded 2011
2010 - 2011	Thesis Reader	Shirley Wang Department of Epidemiology, June Rockwell Levy Foundation Fellow Degree awarded 2011
2010 - 2012	Dissertation Chair	Regina Grebla Department of Epidemiology Degree awarded 2012
2011 - 2015	Academic Advisor and Dissertation Chair	Nina Joyce Department of Epidemiology June Rockwell Levy Foundation Fellow Degree awarded 2015
2014 - 2017	Academic Advisor and Dissertation Chair	Samantha Kingsley Department of Epidemiology Degree awarded 2017

2014 - 2017	Thesis Committee Member	Mary Beth Lacy Department of Epidemiology, Degree awarded 2017
2017 - 2018	Thesis Committee Member	Marcia Pescador Department of Epidemiology, Degree awarded 2018
2016 - Present	Academic Advisor and Dissertation Chair	Keith Spangler Department of Environment, Earth, and Planetary Sciences (DEEPS) Degree expected 2019
2017 - Present	Thesis Committee Member	Geetika Kalloo Department of Epidemiology, Degree expected 2019

PhD Students – Other Institutions

2009 - 2011	Thesis Committee Member	Emmanuel Baja Department of Environmental Health Harvard School of Public Health Degree awarded 2011
2015 - 2017	Thesis Committee Member	Trent Honda Department of Health Sciences Northeastern University Degree awarded 2017
2016 - 2018	Thesis Committee Member	Erin Kulick Department of Epidemiology Columbia University Degree awarded 2018
2016 - Present	Thesis Committee Member	Ariadna Curto Universitat Pompeu Fabra (UPF), Barcelona Degree expected 2019
2016 - Present	Thesis Committee Member	Marcus Dahlquist Karolinska Institute, Sweden Degree expected 2020

Masters Students – Brown University

2011 - 2012	Thesis Advisor	Dr. Lori A. Daiello ScM Candidate, Department of Epidemiology Degree awarded 2012
2010 - 2013	Academic Advisor	Atika Faiz MPH Candidate, Program in Public Health Degree awarded 2013

2010 - 2013	Academic Advisor	Mengna Huang MPH Candidate, Program in Public Health Degree awarded 2013
2011 - 2013	Academic Advisor	Larry Warner MPH Candidate, Program in Public Health Degree awarded 2013
2011 - 2013	Academic and Thesis Advisor	Samantha Kingsley MPH Candidate, Program in Public Health Degree awarded 2013
2011 - 2012	Thesis Advisor	Adila Prasodjo MPH Candidate, Program in Public Health Degree awarded 2013
2016 - 2017	Thesis Advisor	Sophie Kauderer MPH Candidate, Program in Public Health Degree awarded 2017
2016 - 2018	Academic and Thesis Advisor	Catrina Mueller-Leonhard ScM Candidate, Department of Epidemiology Degree awarded 2018

Undergraduate Concentrators

2015 - 2016	Thesis Advisor	Leah Hakin BA Health & Human Biology Degree awarded 2016
2017 - 2018	Thesis Advisor	Rebecca Noga BA Public Health Degree awarded 2018
2018 - Present	Thesis Advisor	Caroline Blanck BS Environmental Sciences Degree expected 2019

Medical Students

Summer 2010	Luke Boyle, BM BCh BAO and MPH Candidate Queen's University Belfast
Summer 2013	Rebecca Slotkin Brown University