

Curriculum Vitae

Michael Leo Brennan Jerrett, Ph.D

Position

Professor and Chair
Department of Environmental Health Sciences
Fielding School of Public Health
UCLA



Education Background

University of Toronto	PhD	1986	Geography
University of Toronto	MA	1988	Political Science with accredited specialization in Environmental Studies
Trent University	BSc	1986	Environmental and Resources Sciences

Professional Experience

2014 – present	Full Professor and Chair, Department of Environmental Health Sciences Fielding School of Public Health, University of California, Los Angeles
2014 – present	Professor-in-Residence, Division of Environmental Health Sciences School of Public Health, University of California, Berkeley
2012 – 2014	Chair, Division of Environmental Health Sciences School of Public Health, University of California, Berkeley
2006 – 2014	Professor, Division of Environmental Health Sciences (Associate Professor 1994 – 2011) School of Public Health, University of California, Berkeley
2008 – 2010	Director, Doctor of Public Health Program in Environmental Health Sciences University of California, Berkeley
2002 – 2007	Adjunct Associate Professor, Graduate Programs in Population Health Ontario Veterinary College
2003 – 2006	Associate Professor, University of Southern California
2004 – 2006	Co-Director, Exposure Assessment and GIS Facility Core, Southern California Center for Environmental Health Science
1998 – 2005	Associate Professor, McMaster University
1997 – 1998	Assistant Professor, San Diego State University
1995 – 1997	Teaching Postdoctoral Fellow, Tri-Council Research Environmental Health Program and Department of Geography, McMaster University

Publications (at least 3 years)

1. White, L.F., Yu, J., Jerrett, M., and Coogan, P. 2016. Temporal aspects of air pollutant measures in epidemiologic analysis: a simulation study. *Nature Scientific Reports* 6 doi: 10.1038/srep19691.

2. Stieb, D.M., Chen, L., Beckerman, B.S., Jerrett, M., Crouse, D.L., Omariba, D.W.R., Peters, P.A., van Donkelaar, A., Martin, R.V., Burnett, R.T., Gilbert, N.L., Tjepkema, M., Liu, S.L., and Dugandzic, R.M. 2016. Associations of pregnancy outcomes and PM_{2.5} in a national Canadian study. *Environmental Health Perspectives* 124:243-249.
3. Coogan, P.F., White, L.F., Yu, J., Burnett, R.T., Seto, E., Brook, R.D., Plamer, J.R., Rosenberg, L., and Jerrett, M. 2016. PM_{2.5} and diabetes and hypertension incidence in Black Women's Health Study. *Epidemiology* 27:202-210.
4. Thurston, G.D., Ahn, J., Cromar, K.R., Shao, Y.Z., Reynolds, H.R., Jerrett, M., Lim, C.C., Shanley, R., Park, Y., and Hayes, R.B. 2016. Ambient particulate matter air pollution exposure and mortality in the NIH-AARP Diet and Health Cohort. *Environmental Health Perspectives* 124:484-490.
5. Coker, E., Liverani, S., Ghosh, J.K., Jerrett, M., Beckerman, B., Li, A., Ritz, B., and Molitor, J. 2016. Multi-pollutant exposure profiles associated with term low birth weight in Los Angeles County. *Environmental International* 91:1-13.
6. Pinault, L., Crouse, D., Jerrett, M., Brauer, M., and Tjepkema, M. 2016. Spatial associations between socioeconomic groups and NO₂ and air pollution exposure within three large Canadian cities. *Environmental Research* 147:373-82.
7. Turner, M.C., Jerrett, M., III Pope, A.C., Krewski, D., Gapstur, S.M., Diver, W.R., Beckerman, B.S., Marshall, J.D., Su, J., Crouse, D.L., and Burnett, R.T. 2016. Long-term ozone exposure and mortality in a large prospective study. *American Journal of Respiratory and Critical Care Medicine* 193(10):1134-1142.
8. Thurston, G.D., Burnett, R.T., Turner, M.C., Shi, Y., Krewski, D., Lall, R., Ito, K., Jerrett, M., Gapstur, S.M., Diver, W.R., and III Pope, C.A. 2016. Ischemic heart disease mortality and long-term exposure to source-related components of U.S. fine particle air pollution. *Environmental Health Perspectives* 124(6):785-794.
9. Stieb, D.M., Chen, L., Hystad, P., Beckerman, B.S., Jerrett, M., Tjepkema, M., Crouse, D.L., Omariba, D.W., Peters, P.A., van Donkelaar, A., Martin, R.V., Burnett, R.T., Liu, S.L., Smith-Doiron, M., and Dugandzic, R.M. 2016. A national study of the association between traffic-related air pollution and adverse pregnancy outcomes in Canada, 1999-2008. *Environmental Research* 148:513-526.
10. Coogan, P.F., White, L.F., Yu, J., Burnett, R.T., Marshall, J.D., Seto, E., Brook, R.D., Palmer, J.R., Rosenberg, L. and Jerrett, M. 2016. Long term exposure to NO₂ and diabetes incidence in Black Women's Health Study. *Environmental Research* 148:360-366.
11. Jerrett, M. 2015. The death toll from air pollution sources. *Nature* 525:330-331.

12. Reid, C.E., Brauer, M., Johnston, F., Jerrett, M., Balmes, J.R., and Elliott, C.T. 2016. Critical review of health impacts of wildfire smoke exposure. *Environmental Health Perspectives*. 124: 1344-1343.*
13. Chen, H., Kwong, J.C., Copes, R., Villeneuve, P.J., Goldberg, M.S., Weichenthal, S., van Donkelaar, A., Jerrett, M., Martin, R.V., Brook, J.R., Kopp, A., Burnett, R.T. 2016. Cohort profile: The ONtario Population Health and Environment Cohort (ONPHEC). *International Journal of Epidemiology*. [Epub ahead of print] doi: 10.1093/ije/dyw030, PubMed PMID: 27097745.
14. Baccarelli, A.A., Hales, N., Burnett, R.T., Jerrett, M., Mix, C., Dockery, D.W., and Pope, C.A. 2016. Particulate air pollution, exceptional aging, and rates of centenarians: A nationwide analysis of the United States, 1980-2010. *Environmental Health Perspectives*. [Epub ahead of print] PubMed PMID: 27138440.
15. Chen, H., Burnett, R.T., Copes, R., Kwong, J.C., Villeneuve, P.J., Goldberg, M.S., Brook, R.D., van Donkelaar, A., Jerrett, M., Martin, R.V., Brook, J.R., Kopp, A., and Tu, J.V. 2016. Ambient fine particulate matter and mortality among survivors of myocardial infarction: Population-based cohort study. *Environmental Health Perspectives*. 124: 1421-1428.
16. Reid, C.E., Jerrett, M., Tager, I.B., Petersen, M.L., Mann, J.K., and Balmes, J.R. 2016. Differential respiratory health effects from the 2008 northern California wildfires: A spatiotemporal approach. *Environmental Research*. 150:227-235.*
17. Jerrett, M., Turner, M., Beckerman, B.S., Pope, A., Martin, R.V., Serre, M., Gapstur, S.M., Krewski, D., Diver, R., Thurston, G., and van Donkelaar, A. Comparing remote sensing, atmospheric chemistry and ground-based estimates of fine particulate matter on survival. *Environmental Health Perspectives*. 2017 Apr;125(4):552-559.
18. Su JG, Meng YY, Pickett M, Seto E, Ritz B, Jerrett M. 2016. Identification of effects of regulatory actions on air quality in goods movement corridors in California. *Environmental Science and Technology*. 2016 50(16):8687-96.
19. Jerrett, M., Su, J., MacLeod S., Hanning C., Huston, D., and Wolch, J. Safe routes to play? Pedestrian and bicyclist crashes near parks in the Los Angeles Region. *Environmental Research*. 151: 742-755.
20. Baccarelli AA, Hales N, Burnett RT, Jerrett M, Mix C, Dockery DW, Pope CA. 2016. Particulate air pollution, exceptional aging, and rates of centenarians: A nationwide analysis of the United States, 1980-2010. *Environmental Health Perspectives*. 124:1744-1750.
21. Donaire-Gonzalez D, Valentín A, de Nazelle A, Ambros A, Carrasco-Turigas G, Seto E, Jerrett M, Nieuwenhuijsen MJ. 2016. Benefits of mobile phone technology for

- personal environmental monitoring. *Journal of Medical Internet Research*. 10:e126.
22. Nasari MM, Szyszkowicz M, Chen H, Crouse D, Turner MC, Jerrett M, Pope CA 3rd, Hubbell B, Fann N, Cohen A, Gapstur SM, Diver WR, Stieb D, Forouzanfar MH, Kim SY, Olives C, Krewski D, Burnett RT. 2016. A class of non-linear exposure-response models suitable for health impact assessment applicable to large cohort studies of ambient air pollution. *Air Quality and Atmospheric Health*. 9: 961-972.
 23. Allen RT, Hales NM, Baccarelli A, Jerrett M, Ezzati M, Dockery DW, Pope CA 3rd. 2016. Countervailing effects of income, air pollution, smoking, and obesity on aging and life expectancy: population-based study of U.S. Counties. *Environmental Health*. 15:86.
 24. Turner MC, Cohen A, Burnett RT, Jerrett M, Diver WR, Gapstur SM, Krewski D, Samet JM, Pope CA 3rd. Interactions between cigarette smoking and ambient PM_{2.5} for cardiovascular mortality. *Environ Res*. 2017 Apr;154:304-310.
 25. Jerrett M, Brook R, White LF, Burnett RT, Yu J, Su J, Seto E, Marshall J, Palmer JR, Rosenberg L, Coogan PF. Ambient ozone and incident diabetes: A prospective analysis in a large cohort of African American women. *Environ Int*. 2017 May;102:42-47.
 26. Turner MC, Nieuwenhuijsen M, Anderson K, Balshaw D, Cui Y, Dunton G, Hoppin JA, Koutrakis P, Jerrett M. Assessing the Exposome with External Measures: Commentary on the State of the Science and Research Recommendations. *Annu Rev Public Health*. 2017 Mar 20;38:215-239.
 27. Loh M, Sarigiannis D, Gotti A, Karakitsios S, Pronk A, Kuijpers E, Annesi-Maesano I, Baiz N, Madureira J, Oliveira Fernandes E, Jerrett M, Cherrie JW. How Sensors Might Help Define the External Exposome. *Int J Environ Res Public Health*. 2017 Apr 18;14(4).
 28. Weichenthal S, Bai L, Hatzopoulou M, Van Ryswyk K, Kwong JC, Jerrett M, van Donkelaar A, Martin RV, Burnett RT, Lu H, Chen H. Long-term exposure to ambient ultrafine particles and respiratory disease incidence in Toronto, Canada: a cohort study. *Environ Health*. 2017 Jun 19;16(1):64.
 29. Avila-Palencia I, de Nazelle A, Cole-Hunter T, Donaire-Gonzalez D, Jerrett M, Rodriguez DA, Nieuwenhuijsen MJ. The relationship between bicycle commuting and perceived stress: a cross-sectional study. *BMJ Open*. 2017 Jun 23;7(6):e013542.
 30. Curto A, de Nazelle A, Donaire-Gonzalez D, Cole-Hunter T, Garcia-Aymerich J, Martínez D, Anaya E, Rodríguez D, Jerrett M, Nieuwenhuijsen MJ. Private and public modes of bicycle commuting: a perspective on attitude and perception.

Eur J Public Health. 2016 Aug;26(4):717-23.

31. Coogan PF, White LF, Yu J, Brook RD, Burnett RT, Marshall JD, Bethea TN, Rosenberg L, Jerrett M. Long-Term Exposure to NO₂ and Ozone and Hypertension Incidence in the Black Women's Health Study. *Am J Hypertens.* 2017 Apr 1;30(4):367-372.
32. Jerrett M, Donaire-Gonzalez D, Popoola O, Jones R, Cohen RC, Almanza E, de Nazelle A, Mead I, Carrasco-Turigas G, Cole-Hunter T, Triguero-Mas M, Seto E, Nieuwenhuijsen M. Validating novel air pollution sensors to improve exposure estimates for epidemiological analyses and citizen science. *Environ Res.* 2017 Jun 28;158:286-294.