

Michael Jerrett, Ph.D.

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Research Interests - Spatial analysis of disease-exposure associations using Geographic Information Science; geographic exposure modeling, land use characterization.

Dr. Jerrett was the first to graduate from the collaborative MA in political science and environmental studies at the University of Toronto (U of T) in 1987. He subsequently completed a PhD in Geography at U of T and then worked for two years as a postdoctoral fellow in Environmental Health with Dr. John Eyles at McMaster University. Building on his specialties, Dr. Jerrett currently assesses air pollution-health associations in the United States and Canada, with special reference to geographic exposure models and social-spatial effect modifiers. He also pursues research in environmental accounting focusing on the determinants of and evaluation of environmental costs and benefits. He has designed and analyzed local, provincial, state, and national level health and environment databases in North America, Europe, and Asia.

Since 2001, Dr. Jerrett has participated in the American Cancer Society Particle Epidemiology Project. His work opened important field research connecting social determinants of health, air pollution health effects, and spatial analysis. Research results inform policy debates because the spatial analysis demonstrate that the health effects of air pollution are reduced but not eliminated by ecological confounding and are often modified by individual and neighborhood social characteristics.