

BIOGRAPHICAL SKETCH

NAME Joel Schwartz	POSITION TITLE Associate Professor Environmental Epidemiology Associate Epidemiologist, BWH, Associate Professor of Medicine		
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Brandeis University	B.A.	1969	Math, Physics
Brandeis University	Ph.D.	1980	Statistical Physics

Experience

1979-1987	Staff Scientist, U.S. Environmental Protection Agency, Washington, DC
1987-1988	Visiting Scientist, Department of Biostatistics, Harvard School of Public Health, Boston, MA
1990-1994	Senior Scientist, U.S. Environmental Protection Agency, Washington, D.C.
1994-	Associate Professor Environmental Epidemiology, Harvard School of Public Health, Boston, MA
1994-	Associate Epidemiologist, Brigham and Women's Hospital, Boston, MA
1994-	Associate Professor of Medicine, Harvard Medical School, Boston, MA

Professional Awards

1991	John D. and Catherine T. MacArthur Fellowship Award
1984, 1986	U.S. Environmental Protection Agency Silver Medal
1988, 1989, 1990	U.S. Environmental Protection Agency Scientific Achievement Award

Selected Publications

- DeMeo DL, Zanobetti A, Coull B, Litonjua AA, Schwartz J, Gold DR.** Longitudinal Assessment of Ambient Pollution on Oxygen Saturation in a Cohort of Older Individuals. *Am J Respir Crit Care Med*, in press.
- Schwartz J.** The Effects of Particulate Air Pollution on Daily Deaths: A Multi-City Case Crossover Analysis. *Occup Environ Med*, in press.
- Schwartz J.** Who is Sensitive to Extremes of Temperature? A Case-Only Analysis. *Epidemiology*, in press.
- Schwartz J.** Is the Association of Airborne Particles with Daily Deaths Confounded by Gaseous Air Pollutants: An Approach to Control by Matching. *Environ Health Perspect*:112:557-61, 2004.
- Adamkiewicz G, Ebel S, Syring M, Slater J, Speizer FE, **Schwartz J**, Suh H, Gold, DR. Association between Air Pollution Exposure and Exhaled Nitric Oxide in an Elderly Panel. *Thorax*. 2004 Mar;59(3):204-209.
- Bateson TF, **Schwartz J.** Who is sensitive to the effects of particles on mortality? A case-crossover analysis of individual characteristics as effect modifiers. *Epidemiology* 2004;15:143-49.
- Schwartz J, Coull B.** Control for Confounding in the presence of measurement error in hierarchical models, *Biostatistics*, 4:539-53, 2003.
- Schwartz J, Laden F, Zanobetti A.** The Concentration—Response relation between air pollution and daily deaths. *Environ Health Perspect*, 2002 Oct;110(10):1025-9.
- Zanobetti A, **Schwartz J.** Cardiovascular damage by airborne particles: Are Diabetics more susceptible? *Epidemiology*, 2002, Sep;13(5):588-92.
- Zanobetti A, **Schwartz J**, Samoli E, Gryparis A, Touloumi G, Atkinson R, Le Tertre A, Bobros Janssen NAH, **Schwartz J**, Zanobetti A, Suh HH. Air conditioning and combustion related particles as modifiers of the effect of PM10 on hospital admissions for heart and lung diseases. *Environ Health*

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- Braga ALF, Zanobetti A, **Schwartz J**. The time course of weather related deaths. *Epidemiol* 2001;12:662-667.
- Sarnat JA, **Schwartz J**, Catalano PJ and Suh HH. Confounder or Surrogate: The Role of Gaseous Pollutants in Particulate Matter Epidemiology. *Environ Health Perspect* 2001;109:1053-1061.
- Schwartz J**, Ballester F, Saez M, Pérez-Hoyos S, Bellido J, Cambra K, Arribas F, Cañada A, Pérez-Boillos MJ, and Sunyer J. The Concentration Response Relation between Air Pollution and Daily Deaths. *Environmental Health Perspectives* 2001;109:1001-1006.
- Wright JM, **Schwartz J**, Dockery DW. The effect of trihalomethane exposure on fetal development. *Occup Environ Med*, 2003 Mar;60(3):173-80.
- Zeger SL, Thomas D, Dominici F, Samet J, **Schwartz J**, Dockery D, Cohen A. Exposure measurement error in time-series studies of air pollution: concepts and consequences. *Environ Health Perspect* 2000;108:419-426.
- Schwartz J**. The Distributed Lag between Air Pollution and Daily Deaths. *Epidemiol* 2000;11:320-326.
- Schwartz J** and Zanobetti A. Using meta-smoothing to estimate dose-response trends across multiple studies, with application to air pollution and daily death. *Epidemiology* 2000;11(6):666-672.
- Schwartz J**. Is There Harvesting in the Association of Airborne Particles with Daily Deaths and Hospital Admissions? *Epidemiol* 2001;12:55-61.
- Laden F, Neas LM, Dockery DW, **Schwartz J**. Association of fine particulate matter from different sources with daily mortality in six US cities. *Environ Health Perspect* 2000;108:941-947.
- Braga AL, Zanobetti A, **Schwartz J**. Do respiratory epidemics confound the association between air pollution and daily deaths? *Eur Respir J* 2000;16(4):723-8.
- Coull BA, **Schwartz J**, and Wand MP. Respiratory Health and Air Pollution: Additive Mixed Model Analyses. *Biostatistics*, in press.
- Schwartz J**, Norris G, Larson T, Sheppard L, Claiborne C, Koenig J. Episodes of high coarse particle concentrations are not associated with increased mortality. *Environmental Health Perspectives* 1999;7:339-342.
- Schwartz J**. Air Pollution and Hospital Admissions for Heart Disease in Eight US Counties. *Epidemiology* 1999;10:17-22.
- Schwartz, J.** (1997) Air pollution and hospital admissions for cardiovascular disease in Tucson. *Epidemiol* 8:371-377.
- Schwartz, J.,** Dockery, D.W., Neas, LM. (1996). Is daily mortality associated specifically with fine particles? *J. Air Waste Manage. Assoc.* 46:2-14.
- Schwartz J.** Air Pollution and Blood Markers of Cardiovascular Risk. *Environ Health Perspect*, 2001 Jun;109 Suppl 3:405-9.
- Schwartz, J.** and Morris, R. (1995) Air pollution and hospital admissions for cardiovascular disease in Detroit, Michigan. *Am. J. Epid.* 50:23-35.
- Schwartz, J.** (1994) Nonparametric smoothing in the analysis of air pollution and respiratory illness. *Canadian J Stat* 22: 471-487.
- Schwartz, J.** (1994) Air pollution and hospital admissions for the elderly in Birmingham, Alabama. *Am. J. Epid.* 139:589-598.
- Schwartz, J.** (1994) Low level lead exposure and children's IQ: A meta-analysis and search for a threshold. *Environ. Res.* 65:42-55.
- Schwartz, J.** (1994) What are people dying of on high air pollution days? *Environ. Res.* 64:26-35.
- Schwartz, J.** (1994) Air pollution and hospital admissions for the elderly in Detroit, Michigan. *Am J Respir Crit Care Med* 150:648-655.