

Nathalie Simon, Economist in EPA's [National Center for Environmental Economics](#)

Research Interests: Health effects of air pollution; mortality risk valuation; children's health valuation; human health risk assessment and economic benefits analysis integration; non-market valuation

Biography: Nathalie Simon has been an economist at the National Center for Environmental Economics at the U.S. EPA since 1998. She served as the Associate Office Director, for the Center (2005-2016) and presently serves as a lead analyst on the use of household survey methods to measure the economic benefits of improvements in the environment and human health. She provides economic analysis and expertise to support a wide range of policy actions, focusing on air quality regulations and standards, including leading an office team reviewing air regulations and policy issues. She also helped to lead recent efforts in the office to undertake a series of retrospective analyses of prior Agency regulations to see how well the Agency measured the expected economic costs of these regulations. Prior to joining the Agency, Nathalie served as a research associate with National Economic Research Associates (1987-1990) and as a consultant to The World Bank Group (1993-1998). She received her PhD in economics from the University of Maryland - College Park in 1998.

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Peer-Reviewed Publications:

["Retrospective Evaluation of the Costs of Complying with Light-Duty Vehicle Surface Coating Requirements."](#) (with Ann Wolverton and Ann Ferris), *Journal of Benefit-Cost Analysis*, 10(1): 39-64. Spring 2019.

["Valuing Ecological Improvements in the Chesapeake Bay and the Importance of Ancillary Benefits."](#) (with Chris Moore, Dennis Guignet, Kelly Maguire and Chris Dockins), *Journal of Benefit-Cost Analysis*, 9(1), 1-26. Spring 2018.

["National primary drinking water regulation for arsenic: A retrospective assessment of costs,"](#) (with Cynthia Morgan), *Journal of Benefit-Cost Analysis*, 5(2), pp. 259-284, 2014.

["Retrospective Cost Analysis of EPA Regulations: A Case Study Approach,"](#) (with Carl Pasurka, Elizabeth Kopits, Al McGartland, Cynthia Morgan, Ron Shadbegian, David Simpson, and Ann Wolverton), *Journal of Benefit-Cost Analysis*, 5(2), pp.

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"EPA's Guidelines for Preparing Economic Analyses," (with Chris Dockins), In [*Environmental and Natural Resource Economics: An Encyclopedia*](#), (Timothy C. Haab and John H. Whitehead, Editors), Greenwood Publishers, 2014.

"[Willingness to Pay for Mortality Risk Reductions: Does Latency Matter?](#)," (with Anna Alberini, Maureen Cropper, and Alan Krupnick), *Journal of Risk and Uncertainty*, 32(3), pp. 231-45, May 2006.

"[Focus on Babies: Evidence of Parental Attitudes Toward Pesticide Risks](#)," (with Kelly Maguire and Nicole Owens), *Journal of Agribusiness*, 2(2), pp. 187-195, 2006.

"[Does the Value of a Statistical Life Vary with Age and Health Status? Evidence from the United States and Canada](#)," (with Anna Alberini, Maureen Cropper, and Alan Krupnick), *Journal of Environmental Economics and Management*, 48(1), pp. 769-792, July 2004.

"[Linking Economics and Risk Assessment](#)," (with Chris Dockins, Charles Griffiths, Nicole Owens, and Daniel Axelrad), *Journal of Toxicology and Environmental Health*, 67(8-10), pp. 611-620, 2004.

"[The Price Premium for Organic Babyfood: A Hedonic Analysis](#)," (with Kelly B. Maguire and Nicole Owens), *Journal of Agricultural and Resource Economics*, 29(1), pp. 132-149, April 2004.

"[Does the Value of a Statistical Life Vary with Age and Health Status? Evidence from the United States and Canada](#)," (with Anna Alberini, Maureen Cropper, and Alan Krupnick), RFF Discussion Paper Number 02-19, April 2002.

"[What to Do at Low Doses: A Bounding Approach for Economic Analysis](#)," (with Charles W. Griffiths, Chris Dockins, Nicole Owens, and Daniel A. Axelrad), *Risk Analysis: An International Journal*, 22(4), pp. 679-688, August 2002.

"[Valuation of Childhood Risk Reduction: The Importance of Age, Risk Preferences and Perspective](#)," (with Chris Dockins, Robin Jenkins, Nicole Owens, and Lanelle Wiggins), *Risk Analysis: An International Journal*, 22(2), pp. 335-346, April 2002.

"[Age, Health and the Willingness to Pay for Mortality Risk Reductions: A Contingent Valuation Study of Ontario Residents](#)," (with Alan Krupnick, Anna Alberini, Maureen Cropper, Bernie O'Brien, Ron Goeree, and Martin Heintzelman), *Journal of Risk and Uncertainty*, 24 (2), pp. 161-186, 2002.

"[The Willingness to Pay for Mortality Risk Reductions: A Comparison of the United States and Canada](#)," (with Anna Alberini, Alan Krupnick, Maureen Cropper, and Joe Cook), CESifo Working Paper Series, Number 668(8), Center for Economic Studies and IFO Institute, 2002. Also appears in [FEEM Discussion Paper Series, Number 92.2001](#), December 2001.

["Age, Health, and the Willingness to Pay for Mortality Risk Reductions: A Contingent Valuation Survey of Ontario Residents,"](#) (with Alan Krupnick, Anna Alberini, Maureen Cropper, Bernie O'Brien, Ron Goeree, and Martin Heintzelman), RFF Discussion Paper 00–37, September 2000.

["Valuing Mortality Risk Reductions in India: A Study of Compensating Wage Differentials,"](#) (with Maureen Cropper, Anna Alberini, and Seema Arora), Policy Research Working Paper #2078, Development Economics Research Group, The World Bank, March 1999.

["The Health Benefits of Air Pollution Reduction in Delhi, India,"](#) (with Maureen Cropper, Anna Alberini, Seema Arora, and P.K. Sharma), *American Journal of Agricultural Economics*, 79(5), pp. 1625-1629, December 1997.

Recent [NCEE Working Paper Series:](#)

["A Stated Preference Study of the Chesapeake Bay and Watershed Lakes,"](#) (with Chris Moore, Dennis Guignet, Kelly B. Maguire, Chris Dockins), NCEE Working Paper, 2015-6.

["Asthma Medication Use and Air Pollution in California: A Cross-Sectional Analysis,"](#) (with Charles Griffiths, and Tracey Woodruff), NCEE Working Paper, 2009-06.

Select EPA and Other Publications:

["Valuing mortality risk reductions for policy: a meta-analytic approach,"](#) (with Steve Newbold, Kelly Maguire, Chris Moore and Chris Dockins), Prepared for the Science Advisory Board, Environmental Economics Advisory Committee, 2016.

"National Primary Drinking Water Standard for Arsenic," Chapter 4 (pp. 115-179), (with Cynthia Morgan) in [Retrospective Study of the Costs of EPA Regulations: A Report of Four Case Studies](#), National Center for Environmental Economics, Office of Policy, EPA 240-F-14-001, 2014.

["Valuing Mortality Risk Reductions for Environmental Policy: A White Paper,"](#) (with Steve Newbold, Kelly Maguire, Chris Moore, and Chris Dockins) Prepared for the Science Advisory Board, Environmental Economics Advisory Committee, 2010.

["Willingness to Pay for Environmental Health Risk Reductions when there are Varying Degrees of Life Expectancy: A White Paper,"](#) (with Kelly B. Maguire and Chris Dockins), prepared for the USEPA, Science Advisory Board, Environmental Economics Advisory Committee, 2006.

[Children's Health Valuation Handbook](#) (contributing author), EPA/100/R-03/003, October 2003.

["The Health Effects of Air Pollution in Delhi, India,"](#) (with Maureen Cropper, Anna Alberini, and P.K. Sharma), Policy Research Department Working Paper #1860, Development Economic Research Group, The World Bank, December 1997.

"Valuing the Health Impacts of Air Pollution," (with Maureen Cropper), DEC Notes, Development Economics Vice Presidency, The World Bank, Number 7, April 1996.

"Dose Response Functions and the Health Impacts of Air Pollution," Environment Dissemination Notes, The World Bank, Number 11, December 1994.