

Hilary Sigman

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Employment:

1999–present Professor (2008), Associate Professor (2001), Assistant Professor (1999)
Department of Economics, Rutgers University, New Brunswick

2001 Associate Professor of Environmental Economics
School of Forestry and Environmental Studies, Yale University

1992–1998 Assistant Professor, Department of Economics, UCLA

Education:

1988–1992 Massachusetts Institute of Technology, Ph.D. in Economics (Feb 1993)
Thesis: “Economic Instruments for Hazardous Waste Policy”
National Tax Association Award for Outstanding Doctoral Dissertation

1987–1988 Cambridge University, M.Phil. in Economics (June 1988)

1986–1987 University College of Wales, Aberystwyth
Study in Human and Physical Geography

1982–1986 Yale College, B.A. *summa cum laude* (May 1986)
Honors in Economics and Studies in the Environment
Phi Beta Kappa

Professional activities:

Research Associate, National Bureau of Economic Research (NBER)

Board of Directors (2003–2005) and Nominating Committee (2007), Association of
Environmental and Resource Economists (AERE)

Environmental Economics Advisory Committee (1998–2004) and UST/RCRA Benefits, Costs,
and Impacts Review Panel (2002), Science Advisory Board, U.S. Environmental Protection
Agency (EPA)

Visiting positions:

- Summer 2007 Visiting Scholar, Copenhagen Business School
- Spring 2002 Visiting Associate Professor, Ford School of Public Policy,
University of Michigan

Fellowships:

- Fall 1998 Visiting Fellowship, Hoover Institution, Stanford, CA
- 1996–1997 Gilbert F. White Fellowship, Resources for the Future, Washington, DC
- Spring 1997 Faculty Research Fellowship, UCLA Center for American Politics and Public Policy
- Fall 1996 UCLA Faculty Career Development Award
- 1990–1992 M.I.T. Center for Energy and Environmental Policy Research, Dissertation funding
- 1988–1990 Robert M. Solow Fellowship
- 1986–1988 Keasbey Memorial Scholarship (for two years' study in the U.K.)

Research grants and contracts:

- 2005–2009 U.S. EPA, National Center for Environmental Research,
Science to Achieve Results (STAR) Research grant, \$149,237 (P.I.).
“Environmental liability, cleanup expenditures, and redevelopment of old industrial land”
- 1999–2003 National Science Foundation, Research Grant \$137,792 (P.I.)
“International spillovers and water quality in rivers”
- 1994–1997 U.S. EPA, Office of Exploratory Research, Research Grant \$218,805 (P.I.)
“Liability funding and Superfund clean-up strategies”
- 1994–1995 University of California Toxic Substances Research and Teaching Program,
Research Grant \$19,200 (P.I.)
“Cross-media substitution in toxic chemical emissions”
- 1993 Marine Policy Center, Woods Hole Oceanographic Institution,
Subcontract for focal study, “The cost of waste reduction”

Publications:

- “Environmental Liability and Redevelopment of Old Industrial Land,” *Journal of Law and Economics*, 53 (forthcoming, May 2010).
- “Implications of Globalization and Trade for Water Quality in Transboundary Rivers” (with Howard F. Chang) in Claudia Ringler, Asit Biswas, and Sarah Cline, eds. *Globalization, Trade and Global Change: Implications for Water and Food Security*, (Springer: forthcoming).
- Economics of Hazardous Waste and Contaminated Land*. Cheltenham, UK: Edward Elgar, 2008 (edited volume in International Library of Critical Writings in Economics).
- “Economics of Hazardous Waste,” in Steven N. Durlauf and Lawrence E. Blume, eds. *The New Palgrave Dictionary of Economics, 2nd edition* (Basingstoke and New York: Palgrave Macmillan, 2008).
- “A Cross-Country Comparison of Decentralization and Environmental Protection,” in Greg Ingram and Yu-Hung Hong, eds. *Land Policies and Fiscal Decentralization* (Cambridge, MA: The Lincoln Institute for Land Policy, 2008), 195–215.
- “The Effect of Joint and Several Liability under Superfund on Brownfields,” (with Howard F. Chang), *International Review of Law and Economics* 27 (December 2007), 363–384.
- “Legal Liability as Climate Change Policy,” *University of Pennsylvania Law Review* 155 (June 2007), 1953–1959.
- “The Incidence of Pollution Control Policies” (with Ian W.H. Parry, Margaret Walls, and Roberton C. Williams III) in Tom Tietenberg and Henk Folmer, eds. *International Yearbook of Environmental and Resource Economics 2006/2007* (Cheltenham, UK: Edward Elgar, 2006), 1–44.
- “Transboundary Spillovers and Decentralization of Environmental Policies,” *Journal of Environmental Economics and Management*, 50 (June 2005), 82–101.
- “Does Trade Promote Environmental Coordination?: Pollution in International Rivers,” *Contributions to Economic Analysis and Policy*, 3 (Issue 2, 2004), Article 2. (reprinted in Don Fullerton, ed., *The Economics of Pollution Havens*, Cheltenham, UK: Edward Elgar, 2006; and K. William Easter and Naomi Zeitouni, eds. *Economics of Water Quality*, Ashgate Publishing, 2007).
- “Targeting Lead in Solid Waste,” in Nils Axel Braathen, ed. *Addressing the Economics of Waste* (Paris: OECD, 2004), 161–180.
- “Taxes on Hazardous Waste: The U.S. Experience,” *Public Finance and Management* 3(1), 2003, 12–33.

- “Letting the States Do the Dirty Work: State Responsibility for Federal Environmental Regulation,” *National Tax Journal* 56 (March 2003), 107–122.
- “International Spillovers and Water Quality in Rivers: Do Countries Free Ride?” *American Economic Review* 92 (September 2002), 1152–1159 (reprinted in Jacqueline Geoghegan and Wayne Gray, eds., *Spatial Aspects of Environmental Policy*, Ashgate Publishing, 2006).
- “The Pace of Progress at Superfund Sites: Policy Goals and Interest Group Influence,” *Journal of Law and Economics*, 44 (April 2001), 315–44 (reprinted in Geoghegan and Gray, as above)
- “Environmental Liability in Practice: Liability for Cleanup of Contaminated Sites under Superfund,” in Anthony Heyes, ed. *The Law and Economics of the Environment*, (Cheltenham, U.K.: Edward Elgar, 2001), 136–149.
- “Hazardous Waste and Toxic Substance Policies,” in Paul R. Portney and Robert N. Stavins, eds. *Public Policies for Environmental Protection*, Second Edition (Washington, DC: Resources for the Future, 2000), 215–260.
- “Incentives to Settle Under Joint and Several Liability: An Empirical Analysis of Superfund Litigation” (with Howard F. Chang), *Journal of Legal Studies* 29 (January 2000), 205–236.
- “Reforming Hazardous Waste Policy,” Hoover Institution Essays in Public Policy (Stanford, CA: Hoover Institution, 1999).
- “Liability Funding and Superfund Clean-Up Remedies,” *Journal of Environmental Economics and Management* 35 (May 1998), 205–224.
- “Midnight Dumping: Public Policies and Illegal Disposal of Used Oil,” *RAND Journal of Economics* 29 (Spring 1998), 157–178.
- “The Cost of Reducing Municipal Solid Waste” (with Karen Palmer and Margaret Walls), *Journal of Environmental Economics and Management* 33 (June 1997), 128–150. (Reprinted in Thomas Kinnaman, *The Economics of Residential Solid Waste Management*, Ashgate Publishing, 2003 and R.K. Turner, I. Bateman, and J. Powell, eds. *Waste Management and Planning*, Edward Elgar, 2001.)
- “Cross-Media Pollution: Responses to Restrictions on Chlorinated Solvent Releases,” *Land Economics* 72 (August 1996), 298–312.
- “The Effects of Hazardous Waste Taxes on Waste Generation and Disposal,” *Journal of Environmental Economics and Management* 30 (March 1996), 199–217.
- “A Comparison of Public Policies for Lead Recycling,” *RAND Journal of Economics* 26 (Autumn 1995), 452–478.

“Economic Instruments for Hazardous Waste Policy,” *Proceedings of the National Tax Association*, vol. 86, 1994.

“An Empirical Assessment of State Hazardous Waste Taxes,” *Proceedings of the National Tax Association*, vol. 86, 1994.

“State Hazardous Waste Fees: An Assessment,” *New Partnerships: Economic Incentives in Environmental Management*, Pittsburgh: Air and Waste Management Association, 1994.

Working papers and work in progress:

“Decentralization and Environmental Quality: An International Analysis of Water Pollution,” NBER Working Paper 13098, 2007 (under submission).

“‘Cooperative Federalism’ as a Strategic Interaction: Voluntary Decentralization in Environmental Policy” (with Leah Traub), NBER Working Paper 13238, 2007 (under submission).

“An Empirical Analysis of Cost Recovery in Superfund Cases” (with Howard F. Chang).

“The Lay of the Contaminated Land: Estimates of the Brownfields Problem in the United States” (with Minkyong Yoo), work in progress.

Book reviews and other works:

“Members’ Responses to the Survey on the AERE Journal Proposal,” *AERE Newsletter*, November 2004.

“Review of *The Economics of Waste* by Richard C. Porter,” *Journal of Economic Literature* 42 (March 2004), 229–31.

“Review of *The Greening of Industry: A Risk Management Perspective* by John Graham and Jennifer Hartwell,” *Journal of Economic Literature*, 36 (June 1998), 996–998.

Teaching:

Environmental Economics (Rutgers Economics 332; 65–85 students):

Spring 1999, Spring 2000, Fall 2000, Fall 2002, Spring 2003, Spring 2004, Fall 2004, Spring 2005, Fall 2005; Spring 2006, Fall 2006, Fall 2007, Fall 2008, Spring 2009

Industrial Organization (Rutgers Economics 341; 75–90 students):

Fall 2000, Fall 2002, Spring 2003, Spring 2004, Fall 2004, Fall 2005, Fall 2006, Fall 2007, Fall 2008

Public Economics (Rutgers Economics 515; 4 Ph.D. students): Spring 2008

Environmental Policy (Michigan Public Policy 563; 8 students): Winter 2002

Economics of Environmental Management (Yale F&ES 733b; 12 students): Spring 2001

Public Finance (UCLA Economics 130; 100-125 students):

Fall 1992, Winter 1993, Spring 1993, Fall 1993, Winter 1994, Spring 1994, Fall 1994,
Winter 1995, Spring 1996, Fall 1997, Winter 1998, Spring 1998

Environmental Economics (UCLA Economics 204H, 5-8 Ph.D. students):

Winter 1993, Spring 1994, Spring 1995, Spring 1996, Winter 1998

Reviewing and related activities:

1997–2004 Editorial Council, *Journal of Environmental Economics and Management*

2003– Editorial Council, *Public Finance Review*

2003 Co-organizer, NBER Summer Institute Environmental Economics and Policy Workshop

2001 Panelist, National Tax Association Dissertation Award

Reviewer for:

Journals: *American Economic Review*, *Canadian Journal of Economics*, *Contemporary Economic Policy*, *Economic Inquiry*, *Economic Journal*, *Energy Journal*, *Environmental and Resource Economics*, *Environment and Planning A*, *Finnish Economic Papers*, *International Tax and Public Finance*, *Journal of Environmental Economics and Management*, *Journal of Industrial Economics*, *Journal of Law and Economics*, *Journal of Law, Economics and Organization*, *Journal of Policy Analysis and Management*, *Journal of Public Economics*, *Land Economics*, *National Tax Journal*, *Policy Studies Review*, *Public Finance Quarterly*, *Quarterly Journal of Economics*, *RAND Journal of Economics*, *Regional Studies and Urban Economics*, *Resource and Energy Economics*, *Review of Economics and Statistics*, *Southern Economic Journal*

Granting Organizations: National Science Foundation, Social Science and Humanities Research Council of Canada, Czech Research Foundation, University of California Energy Institute

Conference Selection Committees: 2006 World Congress of the Environmental and Resource Economists III, 1999 AERE-Harvard Workshop on Market Mechanisms

Other: National Research Council, Edward Elgar, Addison-Wesley

Presentations (since 2001):

Latin American and Caribbean Law and Economics Association, Barcelona, June 2009

Yale University, Environmental Economics Workshop, April 2009

Fordham University, Department of Economics, October 2008

Conference on Empirical Legal Studies, New York, November 2007

Copenhagen Business School, Denmark, August 2007

Lincoln Institute for Land Policy, Symposium on Fiscal Decentralization, June 2007

EPA Market Mechanisms and Incentives Workshop, Washington, DC, October 2006

World Congress of Environmental and Resource Economics III, Kyoto, Japan, July 2006
NBER Environmental Working Group Meeting, April 2006
National Brownfields Association Annual Meeting, Denver, November 2005
New Jersey Department of Environmental Protection, Trenton, June 2005
Yale Environmental Economics Workshop, May 2005
International Food Policy Research Institute Workshop, Costa Rica, April 2005
Harvard-MIT Joint Environmental Economics and Policy Workshop, March 2005
OECD Workshop, "The Economics on Waste," Paris, October 2003
RCRA National Meeting, Washington, DC, August 2003
Hunter College, Department of Economics, May 2003
World Congress of Environmental and Resource Economics II, Monterey, CA, June 2002
NBER Conference on Advances in Empirical Environmental Economics, May 2002
NBER Environmental Working Group Meeting, April 2002
University of Michigan, Department of Economics, March 2002
Columbia University, Business School, March 2001
Georgetown University, Department of Economics, March 2001
George Mason University, Institute for Public Choice, February 2001