

## ARUN S. MALIK

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### EDUCATION

Ph.D., Johns Hopkins University, 1984  
B.A. (summa cum laude), Bowdoin College, 1978

### PROFESSIONAL POSITIONS

#### CURRENT

Professor, Department of Economics and School of Public Policy and Public Administration,  
George Washington University  
Associate Editor, *Strategic Behavior and the Environment*

#### VISITING

Visiting Scholar, Economic Growth Centre, Nanyang Technological University, Singapore,  
March 2007  
Visiting Professor, Indian Institute of Management, Bangalore, Fall 2006  
Visiting Professor, Delhi School of Economics, March 2004 and April 2007

#### PREVIOUS

Co-Editor, *Journal of Environmental Economics and Management*, 2005 to 2010  
Senior Research Associate, Department of Agricultural Economics, Cornell University, and Visiting  
Scholar, Economic Research Service, USDA, 1990-1992  
Research Associate, Bureau of Business and Economic Research, University of Maryland at College  
Park, 1985-1990

### FIELDS OF SPECIALIZATION

Environmental and resource economics, public economics, industrial organization

### TEACHING EXPERIENCE

George Washington University: environmental and resource economics—undergraduate, graduate for  
policy students, graduate for economics Ph.D. students; microeconomics—principles (standard and  
honors), intermediate (standard and honors), graduate for policy students; managerial economics  
for MBA students; research proseminar for economics majors; economics of network  
industries—under-graduate

**TEACHING EXPERIENCE (cont.)**

Indian Institute of Management, Bangalore: economics of network industries for mid-career MBA students

University of Maryland: undergraduate courses in microeconomics and statistics

Short courses in environmental and resource economics for mid-career officials of the U.S. Department of State, U.S. Department of Energy, and U.S. Department of Agriculture

**TEACHING AWARDS**

University-wide Trachtenberg Award for Teaching, George Washington University, 2002

Department of Economics Teaching Award, University of Maryland, Spring 1990

**REFEREED JOURNAL ARTICLES**

“Adjacency Externalities and Forest Fire Prevention,” with Christian Crowley, Gregory Amacher and Robert Haight, *Land Economics*, vol. 85, no. 1, pp. 162-185 (2009).

“Optimal Environmental Regulation Based on More than Just Emissions,” *Journal of Regulatory Economics*, vol. 32, no. 1, pp. 1-16 (2007).

“Reducing Social Losses from Forest Fires,” with Gregory Amacher and Robert Haight, *Land Economics*, vol. 82, no. 3, pp. 367-383 (2006).

“Nonindustrial Private Landowners, Fires, and the Wildland-Urban Interface,” with Gregory Amacher and Robert Haight, *Forest Policy and Economics*, vol. 7, no. 5, pp. 796-805 (2005).

“Not Getting Burned: The Importance of Fire Prevention in Forest Management,” with Gregory Amacher and Robert Haight, *Land Economics*, vol. 81, no. 2, pp. 284-302 (2005).

“Forest Landowner Decisions and the Value of Information under Fire Risk,” with Gregory Amacher and Robert Haight, *Canadian Journal of Forest Research*, vol. 35, no. 11, pp. 2603-2615 (2005).

“Further Results on Permit Markets with Market Power and Cheating,” *Journal of Environmental Economics and Management*, vol. 44, no. 3, pp. 371-390 (2002).

“Pollution Taxes when Firms Choose Technologies” with Gregory Amacher, *Southern Economic Journal*, vol. 68, no. 4, pp. 891-906 (2002).

“Instrument Choice when Firms and Regulators Bargain,” with Gregory Amacher, *Journal of Environmental Economics and Management*, vol. 35, pp. 221-234 (1998).

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**REFEREED JOURNAL ARTICLES (cont.)**

- “Bargaining in Environmental Regulation and the Ideal Regulator,” with Gregory Amacher, *Journal of Environmental Economics and Management*, vol. 30, pp. 233-253 (1996).
- “Feasibility of Point/Nonpoint Source Trading for Managing Agricultural Pollutant Loadings to Coastal Waters,” with David Letson and Stephen Crutchfield, *Water Resources Research*, vol. 30, October, pp. 2825-36 (1994).
- “Economic Incentives for Agricultural Nonpoint Source Pollution Control,” with Bruce Larson and Marc Ribaud, *Water Resources Bulletin*, vol. 30, no. 3, pp. 471-480 (1994).
- “Point/Nonpoint Source Trading of Pollution Abatement: Choosing the Right Trading Ratio,” with David Letson and Stephen Crutchfield, *American Journal of Agricultural Economics*, vol. 75, pp. 959-967 (1993).  
[Reprinted in: *Agro-Environmental Policy*, S. Batie and R. Horan, eds., Ashgate, 2004, and *Economics of Water Quality*, K.W. Easter and N. Zeitouni, eds., Ashgate, 2006.]
- “Self-Reporting and the Design of Policies for Regulating Stochastic Pollution,” *Journal of Environmental Economics and Management*, vol. 24, pp. 241-257 (1993).  
[Reprinted in: *The Economics of Environmental Monitoring and Enforcement*, C. Russell, ed., Ashgate, 2003, and *Recent Developments in Environmental Economics*, M. Hoel, ed., Edward Elgar, 2004.]
- “Enforcement Costs and the Choice of Policy Instruments for Controlling Pollution,” *Economic Inquiry*, vol. 30, pp. 714-721 (1992).  
[Reprinted in *The Economics of Environmental Monitoring and Enforcement*, C. Russell, ed., Ashgate, 2003.]
- “The Economics of Tax Amnesties,” with Robert Schwab, *Journal of Public Economics*, vol. 46, pp. 29-49 (1991).
- “Permanent versus Interim Regulations: A Game-Theoretic Analysis,” *Journal of Environmental Economics and Management*, vol. 21, pp. 127-139 (1991).
- “Optimal Investments to Establish Property Rights in Land,” with Robert Schwab, *Journal of Urban Economics*, vol. 29, pp. 295-309 (1991).
- “Avoidance, Screening and Optimum Enforcement,” *Rand Journal of Economics*, vol. 21, pp. 341-353 (1990).  
[Reprinted in *The Economics of Corruption and Illegal Markets*, G. Fiorentini and S. Zamagni, eds., Edward Elgar, 1999.]
- “Markets for Pollution Control when Firms are Noncompliant,” *Journal of Environmental Economics and Management*, vol. 18, pp. 97-106 (1990).

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**BOOK CHAPTERS**

“How Should We Tackle the Forest Fire Problem?” in Ian Parry and Felicia Day, eds., *Issues of the Day: 100 Commentaries on Climate, Energy, the Environment, Transportation, and Public Health Policy*, Resources for the Future Press, Washington, D.C., 2010.

“Point/Nonpoint Source Trading for Controlling Pollutant Loadings to Coastal Watersheds: A Feasibility Study,” with David Letson and Stephen Crutchfield, in *Theory, Modeling and Experience in the Management of Nonpoint Source Pollution*, edited by C. Russell and J. Shogren, Kluwer Academic Publishers, 1993.

*Use of Models for Water Resources Management, Planning, and Policy*, contributing author, Office of Technology Assessment, Government Printing Office, Washington, D.C., 1982.

**REPORTS AND SELECTED OTHER PUBLICATIONS**

“How Should We Tackle the Forest Fire Problem?,” *Resources*, Issue 169, Resources for the Future, Washington, D.C., Summer 2008.

“Addressing Climate Change Without Impairing the U.S. Economy: The Economics and Environmental Science of Combining a Carbon-Based Tax and Tax Relief,” with Robert Shapiro and Nam Pham, U.S. Climate Task Force, June 2008.

“Fuel Reduction, Adjacent Landowner Behavior, and Social Costs of Fire,” with Gregory Amacher and Christian Crowley, report submitted to USDA Forest Service, Northern Station, September 2005.

“Value of Information in Forest Fire Prevention,” with Gregory Amacher, report submitted to USDA Forest Service, Northern Station, April 2003.

“Estimating the Benefits of the U.S. Coast Guard’s Oil Spill Prevention Activities,” with Frederick Joutz and Robert Trost, report submitted to the Center for Naval Analyses, November 1997.

“An Assessment of Selected Policies for Controlling Stationary and Point Source Pollution in Latvia,” with Arnolds Ubelis and Valdis Seglins, Harvard Institute for International Development Environmental Discussion Paper No. 23, July 1997.

“Optimal Cost-Sharing Programs to Reduce Agricultural Pollution,” with Robbin Shoemaker, USDA/ERS/RTD Technical Bulletin No. 1820, June 1993.

“Agricultural Nonpoint Source Pollution and Economic Incentive Policies: Issues in the Reauthorization of the Clean Water Act,” with Bruce Larson and Marc Ribaud, U.S. Department of Agriculture, Staff Report No. AGES 9229, November 1992.

“Are Economic Incentives Appropriate for Controlling Point Sources of Toxic Water Pollution?” in J. Cumberland, ed., *Proceedings of the Fifth Annual Conference on the Economics of Chesapeake Bay Management, BBER*, University of Maryland, College Park, MD, 1989.

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**WORK IN PROGRESS**

"Prospects for Solar Power Generation in the NEMS Model," with Mark Hutson, Frederick Joutz, and Robert Trost

"Autonomous Adaptation to Climate Change: A Literature Review," with Xin Qin and Stephen Smith

"Climate Change, Uncertainty, and Decision-Making," with Jonathan Rothbaum and Stephen Smith

"The Desirability of Forgiveness in Regulatory Enforcement "

"Incentives for Adopting Clean Technologies: A Comparison of Policy Instruments in the Small Numbers Case" with Gregory Amacher

"Permit Life in the Design of Pollution Trading Programs"

**RESEARCH GRANTS**

"Climate Change Adaptation," with Stephen Smith and Nicholas Vonortas, Research Enhancement Fund, Office of the Vice President for Research, GWU, 2010-2012

"The Economics of Solar Electricity Generation," with Frederick Joutz and Robert Trost, GWU Institute for the Analysis of Solar Energy, 2008-2009

"Decision Models for Wildfire Prevention Programs," U.S. Forest Service, 2003-2007

"Assessing and Estimating the Value of Information under Risk of Fire: Implications for Government Budgeting and Management," U.S. Forest Service, 2002-03

"Water Quality and Agricultural Policies," Economic Research Service, U.S. Department of Agriculture, 1993-94

**SUPERVISION OF DISSERTATIONS AND THESES****PH.D. IN ECONOMICS**

Elaine Frey, "Technology Diffusion and Environmental Regulation: Evidence from Electric Utilities under the Clean Air Act," 2008

Christian Crowley, "Modeling in Natural Resource Economics: Exploring Three Techniques," 2006 (co-director)

Pernille Holtedahl, "The Electric Industry and the Clean Water Act: Analyzing the Determinants of Compliance and Enforcement," 2000

Valerie Reppelin, "Trade and Environmental Policy: An Analysis of the Technology Effect," 2000 (co-director)

Seungkuk Cho, "Revealed Bureaucratic Preference: Determinants of EPA Decision Making under the Toxic Substances Control Act," 1997

**SUPERVISION OF DISSERTATIONS AND THESES (cont.)**

## PH.D. IN PUBLIC POLICY

Scott Palmer, "A Study of Toxics Use Reductions by Manufacturers from Two Sectors in Massachusetts (between 1991 and 1998)," 2003

Travis Wagner, "How Clean Is Clean?: A Comparative Analysis of EPA's Reliance on Risk Assessment in its Contaminated Site Remediation Programs," 2003

Benjamin Simon, "Devolution of Federally Constructed Irrigation Projects," 2001 (co-director)

Michael Gresalfi, "Recycling Radioactive Scrap Metals: An Analysis of Prospects and Problems," 1997

## M.A. IN PUBLIC POLICY

Nicholas Lucas, "An Analysis of Sustainable Development as a Metaphor and Its Consequences for Development Policies in Latin America," 2000 (co-director)

Amani Gamel El Din, "Water Conservation in Egypt and the Applicability of the California Experience," 1995

**SELECTED INTRAMURAL SERVICE**

Committee on Arts and Sciences General Curriculum Requirements Reform, Co-Chair of Social Science Subcommittee (Fall 2009-Spring 2011 )

Economics Department Chair Search Committee (AY 2009-10)

Economics Department Undergraduate Curriculum Review Committee (Fall 2009-)

Chair, Economics Department Ad Hoc Committee on Teaching Evaluations and Grading (Fall 2009-)

Advisory Committee Environmental Studies Major (Fall 2009- )

Advisory Committee M.A. Program in Environmental and Resource Policy (2008- )

University Academic Sustainability Faculty Working Group (Fall 2008- )

Economics Department Peer Teaching Evaluation Committee (Fall 2008- )

Field Advisor (environmental and resource policy), Ph.D. Program in Public Policy, 1993-2004, 2007-

Chair, Economics Department Principles Committee, 2002-2003

Co-Director, Research Program in Industry Economics and Policy, 1998-2002

**SELECTED PROFESSIONAL ACTIVITIES**

Associate Editor, *Strategic Behavior and the Environment*, 2009 to present

Editorial Board, *Journal of Environmental Economics and Management*

Co-Editor, *Journal of Environmental Economics and Management*, 2005 to 2010

Program Committee of the Association of Environmental and Resource Economists' inaugural summer conference, June 2011.

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**SELECTED PROFESSIONAL ACTIVITIES (cont.)**

Co-Organizer, Conference on the Economics of Adaptation to Climate Change in Low-Income Countries, Washington, DC, May 2011.

Programme Committee, Fourth World Congress of Environmental and Resource Economists, Montreal, Canada, 2010.

Programme Committee, European Association of Environmental and Resource Economists Conference, Amsterdam, Netherlands, 2009.

Programme Committee, European Association of Environmental and Resource Economists Conference, Gothenburg, Sweden, 2008

Programme Committee, Third World Congress of Environmental and Resource Economists, Kyoto, Japan, 2006.

Member, Editorial Council, *Journal of Environmental Economics and Management*, 1995-2005

Co-organized a number of workshops and small conferences on topics ranging from antitrust policy to climate change as Co-Director of the Research Program in Industry Economics and Policy at GWU, 1998-2002

Advisory Committee, Conference on “Water Quantity/Quality Disputes and their Resolution,” sponsored by Resources for the Future, The World Bank, USDA-ERS, USEPA, May 1992

Developed plan for “Workshop on the Management of Nonpoint-Source Pollution,” Association of Environmental and Resource Economists, University of Kentucky, Lexington, June 1991

**Referee for:**

*American Economic Review, American Journal of Agricultural Economics, Economic Inquiry, Environment and Development Economics, Environmental and Resource Economics, European Economic Review, Games and Economic Behavior, International Economic Review, International Game Theory Review, International Review of Law and Economics, Journal of Economics and Management Strategy, Journal of Environmental Economics and Management, Journal of Law and Economics, Journal of Law, Economics and Organization, Journal of Policy Analysis and Management, Journal of Policy Studies, Journal of Political Economy, Journal of Public Economics, Journal of Regulatory Economics, Management Science, Natural Resource Modeling, Policy Studies Journal, Rand Journal of Economics, Resource and Energy Economics, Review of Industrial Organization, Swiss Journal of Economics and Statistics, Water Resources Research, McGraw-Hill, Inc., Kluwer Academic Publishers, Pearson Higher Education*

**Proposal Reviewer for:**

U.S. National Science Foundation  
U.S. Environmental Protection Agency  
U.S. Department of Agriculture

**SELECTED PROFESSIONAL ACTIVITIES (cont.)**

Consultant to:

U.S. Forest Service  
U.S. Department of Energy  
Center for Naval Analyses  
Harvard Institute for International Development  
U.S. Environmental Protection Agency  
U.S. Army Corps of Engineers  
U.S. Congressional Office of Technology Assessment