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EDUCATION

- Ph.D. Harvard University, Economics. June 1988.
- M.S. University of Massachusetts, Amherst, Agricultural and Resource Economics, May 1984.
- B.A. Amherst College, Mathematics, June 1976.

CURRENT POSITION

Professor of Economics, Tufts University, 1999 - present.

OTHER POSITIONS

Visiting Scholar, MIT Joint Program on the Science and Policy of Global Change, 2000-2001.

Board of Editors, *American Economic Review*, April 2000 - present.

Editorial Board, *Berkeley Electronic Journals in Economic Analysis and Policy*, June 2001 - present.

Research Associate, National Bureau of Economic Research, 1997 - present.

Visiting Assistant Professor of Public Policy, John F. Kennedy School of Government, Harvard University, Spring 1995 - Spring 1996.

Associate Professor of Economics, Tufts University, 1997 - 1999.

Assistant Professor of Economics, Tufts University, 1994 - 1997.

Assistant Professor of Economics, Princeton University, 1988 - 1994.

Faculty Research Fellow, National Bureau of Economic Research, 1989 - 1997.

PROFESSIONAL ACTIVITIES

Consultant, U.S. Army Environmental Legal Division, 2001 - present.

Invited Witness, House Committee on Ways and Means Hearing on Fundamental Tax Reform, April 11, 2000, Washington, DC.

Consultant, Deloitte & Touche, LLP, project on environmental taxes for the Chinese Ministry of Finance, 1999 - 2000.

Co-organizer, FEEM/NBER Conference titled, "Distributional and Behavioral Effects of Environmental Policy," held in Milan Italy, June 1999.

Invited Faculty, Center For Market Processes Legislative Staff Retreat, "The Economics of Taxation: Foundations for Reform," January 21 -22, 1998, Baltimore, MD.

Panel Member, American Enterprise Institute Energy Policy Symposium titled "Should the Government Encourage Energy Conservation?" Participated in panel titled "Market Barriers and Market Failures: Is There Too Little Energy Conservation," October 17, 1997.

Consultant, U.S. Department of the Treasury, Office of Economic Policy, 1997.

Invited Faculty, House Committee on Ways and Means Issues Seminar on Tax Reform, March 1-3, 1996, Airlie House, Airlie, Virginia.

Member of Program Committee for the Eighty-Eighth Annual Conference of the National Tax Association, Boston, Massachusetts, November 1996.

Consultant, Argonne National Laboratory (Special Term Appointment), project work for Department of Energy, 1992 - 1995.

Participant in the Stanford University Energy Modeling Forum Task Force on Energy Conservation, 1994.

Member of the Federal Taxation and Finance Committee of the National Tax Association, 1995 - present.

Outside referee for tenure cases at New York University and University of Massachusetts, Amherst.

AWARDS

National Science Foundation Grant, "Alternative Environmental Policies in a Second Best World: A General Equilibrium and Empirical Analysis," Grant No. SBR-9811324, October 1998 - September 2001 (with Don Fullerton).

National Science Foundation Grant, "Energy Consumption and the Returns to Energy Conservation," Grant No. SBR-9514989, July 1996 - June 1997.

National Science Foundation Grant, "Tax Policy, Irreversibility, and Energy Conservation Investment," Grant No. SES-9210407, August 1992 - July 1995 (with Kevin Hassett).

National Tax Association-Tax Institute of America Outstanding Doctoral Dissertation Awards Program, Second Runner Up, September, 1988.

Northeastern Agricultural and Resource Economics Association Master's Thesis Award of Merit, June, 1984.

PUBLICATIONS IN PROFESSIONAL JOURNALS

1. "Environmental Levies and Distortionary Taxation: Pigou, Taxation, and Pollution," *Journal of Public Economics*, forthcoming.
2. "Environmental Controls, Scarcity Rents, and Pre-Existing Distortions," *Journal of Public Economics*, 80(2001): 249-267 (with Don Fullerton).
3. "A Distributional Analysis of Green Tax Reforms," *National Tax Journal*, 52(1999): 655-681.
4. "Investment with Uncertain Tax Policy: Does Random Tax Policy Discourage Investment?" *The Economic Journal*, 109(1999): 372- 393 (with Kevin Hassett).
5. "Measuring the Energy Savings From Home Improvement Investments: Evidence from Monthly Billing Data," *Review of Economics and Statistics*, 81(1999): 516-528 (with Kevin Hassett).
6. "Environmental Taxes and the Double-Dividend Hypothesis: Did You Really Expect Something for Nothing?" *Chicago-Kent Law Review*, 73(1998): 221-256 (with Don Fullerton).

7. "Value Added Taxation: A Tax Whose Time Has Come?", *Journal of Economic Perspectives* 9(1995): 121-140. (reprinted in *Readings in Public Finance*, eds. S. Baker and C. Elliott, Cincinnati Oh.: South Western College Publishing, 1997).
8. "Can Irreversibility Explain the Slow Diffusion of Energy Saving Technologies?" *Energy Policy*, 24(1996): 7-8 (with Kevin Hassett).
9. "Specification Testing in Panel Data with Instrumental Variables," *Journal of Econometrics*, 71(1996): 291-308.
10. "Who Pays Broad-Based Energy Taxes? Computing Lifetime and Regional Incidence" *Energy Journal* 15(1994): 145-164 (with Nicholas Bull and Kevin Hassett).
11. "Investment under Alternative Return Assumptions: Comparing Random Walks and Mean Reversion," *Journal of Economic Dynamics and Control* 19(1995): 1471-1488 (with Kevin Hassett).
12. "The 'New' View of Investment Decisions and Public Policy Analysis: An Application to Green Lights and Cold Refrigerators," *Journal of Policy Analysis and Management*, 14(1995): 517-531 (with Donald Rosenthal).
13. "Economics and Rational Conservation Policy," *Energy Policy* 22(1994): 819-825.
14. "Energy Tax Credits and Residential Conservation Investment: Evidence from Panel Data," *Journal of Public Economics* 57(1995): 201-217 (with Kevin Hassett).
15. "Is a Value Added Tax Regressive? Annual Versus Lifetime Incidence Measures," *National Tax Journal* 47(1994): 731-746 (with Erik Caspersen).
16. "The Wall Street Journal Contests: The Experts, the Darts, and the Efficient Market Hypothesis," (with Burton Malkiel), *Applied Financial Economics* 4(1994): 371-374.
17. "Lifecycle vs. Annual Perspectives on the Incidence of a Value Added Tax," *Tax Policy and the Economy* 8(1994): 45-64.
18. "Federal Taxation and the Supply of State Debt," *Journal of Public Economics* 51(1993): 269-285.
19. "Tax Exporting, Federal Deductibility, and State Tax Structure," *Journal of Policy Analysis and Management* 12(1993): 109-126.

20. "Energy Conservation Investment: Do Consumers Discount the Future Correctly?" *Energy Policy* 21(1993): 710-716 (with Kevin Hassett). (Reprinted in *The Economics of Energy*, ed. P. Stevens, Cheltenham, UK: Edward Elgar Publishers, 2000).
21. "Deductibility and Optimal State and Local Fiscal Policy," *Economics Letters* 39(1992): 217-221.
22. "The Optimal Rate of Privatization in a Dynamic Economy," *Public Finance* 47(1992): 172-183. (with Lorand Ambrus-Lakatos).
23. "Do Tax-Exempt Bonds Really Subsidize Municipal Capital?" *National Tax Journal* 44(1991): 71-80 (with Roger H. Gordon). (Reprinted in *Handbook of Debt Management*, ed. G. Miller, New York: Marcel Dekker Publishers, 1996).
24. "The Role of Federal Taxation in the Supply of Municipal Bonds: Evidence from Municipal Governments," *National Tax Journal* 44(1991): 57-70. (Reprinted in *Handbook of Debt Management*, ed. G. Miller, New York: Marcel Dekker Publishers, 1996).
25. "Arbitrage and the Savings Behavior of State Governments," *Review of Economics and Statistics* 72(1990): 390-396.
26. "The Effect of Federal Tax Deductibility on State and Local Taxes and Spending," *Journal of Political Economy* 95(1987):710-736 (with Martin S. Feldstein). (Reprinted in *The Economics of Fiscal Federalism and Local Finance*, ed. W. Oates, London: Edward Elgar Publishing Ltd, 1998).
27. "Cross-Media Transfers of Hazardous Wastes," *Northeastern Journal of Agricultural and Resource Economics* 13(1984):203-209 (with Daniel J. Dudek and Cleve E. Willis).

BOOKS

1. *Behavioral and Distributional Effects of Environmental Policy*, eds. Carlo Carraro and Gilbert E. Metcalf, Chicago, IL: University of Chicago Press, 2001.
2. *The Distribution of Tax Burdens*, eds. Don Fullerton and Gilbert E. Metcalf, London: E. Elgar Press, forthcoming.

CHAPTERS IN BOOKS

1. "Tax Incidence," in *Handbook of Public Economics*, eds. Alan Auerbach and Martin Feldstein, Amsterdam: North Holland Press, forthcoming (with Don Fullerton).
2. "A Tax on Output of the Polluting Industry is not a Tax on Pollution: The Importance of Hitting the Target," in *Behavioral and Distributional Effects of Environmental Policy*, eds. Carlo Carraro and Gilbert E. Metcalf, Chicago, IL: University of Chicago Press, 2001: 13-38 (with Don Fullerton and Inkee Hong).
3. "Labor Supply and Welfare Effects of a Shift from Income to Consumption Taxation," in *Empirical Foundations of Household Taxation*, eds. M. Feldstein and J. Poterba, Chicago, IL: University of Chicago Press, 1996: 77-94.
4. "The Role of a Value-Added Tax in Fundamental Tax Reform," in M. Boskin, ed., *Frontiers of Tax Reform*, Stanford CA: Hoover Press, 1996: 91-109.
5. "The Lifetime Incidence of a Consumption Tax" in D. Bradford, ed., *Distributional Analysis of Tax Policy*, Washington DC: The AEI Press, 1995: 294-302.
6. "The Lifetime Incidence of State and Local Taxes: Measuring Changes During the 1980s," in *Tax Progressivity in the 1980s*, Joel Slemrod ed., New York: Cambridge University Press, 1994: 59-88.

OTHER PUBLISHED PAPERS

1. Review of Brännlund, R. and I. Gren, *Green Taxes: Economic Theory and Empirical Evidence From Scandinavia*, in *National Tax Journal*, 53(December 2000): 959-964.
2. Review of Aaron, H. and W. Gale, *Economic Effects of Fundamental Tax Reform*, in *National Tax Journal*, 51(June 1998): 399-404.
3. "The National Sales Tax: Who Bears the Burden?" Cato Policy Analysis No. 289, Washington, DC: Cato Institute, Dec. 8, 1997.
4. Review of Creedy, J., *Fiscal Policy and Social Welfare*, in *Journal of Economic Literature* 35(June 1997): 795-796.
5. "Consumption Taxation," entry in the *Encyclopedia of Taxation and Tax Policy*, Cordes, J., R. Ebel, and J. Gravelle, eds., Washington, DC: Urban Institute Press, 1999.
6. "Federal Tax Policy and Municipal Financial Behavior," *1988 Proceedings of the Eighty-First Annual Conference of the National Tax Association-Tax Institute of America*, Des Moines Iowa, 1989:109-114.
7. "Electroplating Firm Response to Pretreatment Regulations," *Proceedings of The First Annual Massachusetts Hazardous Waste Source Reduction Conference*, Office of Environmental Affairs, 1984, pp. 73-88 (with Daniel J. Dudek and Cleve E. Willis).
8. "The Demand for Regional Treatment, Storage, and Disposal Facilities," in *Toxic and Hazardous Waste*, *Proceedings of the Fifteenth Mid-Atlantic Industrial Waste Conference*, La Grega, M. and L. Hendrian ed., Butterworth Publishers, 1983, pp. 435-444 (with Daniel J. Dudek and Cleve E. Willis).

WORKING PAPERS

1. "Oligopoly Deregulation and the Taxation of Commodities," June 2001 (with George Norman).
2. "Distortionary Taxation in General Equilibrium Climate Modeling," June 2001 (with Mustafa Babiker and John Reilly).
3. "Environmental Taxes to Finance Capital Tax Reform," November 2000 (with Kevin A. Hassett).
4. "Cap and Trade Policies in the Presence of Monopoly and Distortionary Taxation," March, 2000 (with Don Fullerton).
5. "Household Energy Conservation Investment and the Uninformed Consumer Hypothesis," June 1999 (with Alexander M. Brill and Kevin A. Hassett).

CONFERENCE PARTICIPATION IN PAST THREE YEARS

Presenter (P) or Discussant (D):

Workshop on Public Policy and the Environment, National Bureau of Economic Research Summer Institute, July 2001 (D).

Fourth Annual Conference on Global Economic Analysis, Purdue University, June 2001, Plenary speaker (P).

Handbook of Public Economics Conference, University of California, Berkeley, December 2000 (P)

National Bureau of Economic Research Environmental Economics Program Meeting, April 2000 (D).

National Bureau of Economic Research and Fondazione Eni Enrico Mattei Conference on the Distributional and Behavioral Effects of Environmental Policy, held in Milan Italy, June 1999 (Conference organizer and presenter).

National Symposium on Tax Shifting sponsored by Redefining Progress, Washington, D.C., April 1998 (P).

RECENT UNIVERSITY SERVICE

1. Departmental Activities

Organizer, Wellington-Burnham Lecture Series, 1994 - 2000

Search committee chair for tenure track appointment, 1998 - 99, 2001-02.

Member, Graduate Program Committee, 1997 - 2000

2. University Activities

Faculty Research Awards Committee, 1996 - 2000 (Chair, 1998 - 2000).

Faculty Research Support and Facilities Advisory Committee, 1998 - 2000 (ex officio as chair of FRAC)

Member, Presidential Screening Committee to select slate of final candidates for next President of Tufts University, 2000 - 2001.

Chair, Presidential Task Force on the Undergraduate Experience, 2001 - present.

JOURNAL REFEREE

American Economic Review
Economic Journal
Energy Journal
European Economic Review
International Tax and Public Finance
Journal of Econometrics
Journal of Economic Dynamics and Control
Journal of Environmental Economics and Management

Journal of Policy Analysis and Management
Journal of Public Economics
National Tax Journal
Public Finance Quarterly
Quarterly Journal of Economics
Rand Journal of Economics
Review of Economics and Statistics
Southern Economic Journal
National Science Foundation Proposals