

## Curriculum Vitae

### William Merritt Shobe

Center for Economic & Policy Studies  
University of Virginia  
PO Box 400206  
Charlottesville, VA 22904

Telephone: (434) 982-5376  
Mobile: (434) 284-1250  
E-mail: shobe@virginia.edu

#### EDUCATION

- Ph.D. 1991 Dept. of Economics, Univ. of Minnesota, Minneapolis, MN. Dissertation title: *The Effects of Taxation on Capital Gains Realizations: Theory and Evidence*. Fields: Microeconomics, Macroeconomics, Public Finance, Environmental and Natural Resource Economics
- J.D. 1980 Lewis & Clark Law School, Portland, OR
- B.A. 1976 Vanderbilt University, Nashville, TN; Political Science

#### MAJOR PROJECTS

- Auction design for allocating tradable emission allowances
- Early childhood intervention to enhance pre-school readiness
- Developing an improved model for forecasting the Virginia economy
- Environmental federalism and climate change
- Enhancing access to Virginia state government data using the semantic web
- Annual tax rates survey for Virginia localities
- Economic analysis of regulations

#### EMPLOYMENT

**Current Director, Center for Economic & Policy Studies; Professor of Public Policy, Frank Batten School of Leadership and Public Policy; Adjunct Professor, Dept. of Economics, University of Virginia**

Research projects include air pollution allowance trading programs, federalism, market design, state-level economic forecasting, state regulatory policy, state public finance, state datastore initiative, education policy, environmental policy, occupational licensing programs, and economic development. Principle investigator on project to design the auction format for selling carbon allowances under the Regional Greenhouse Gas Initiative, 2007. Advised RGGI, Inc. on post-auction information disclosure policies, 2008 and on setting reserve prices, 2009-10. Co-principle investigator on the Southwest Virginia Early Learning and Literacy initiative and on the Bankard-funded project to improve state-level economic forecasting.

Teaching responsibilities: environmental economics (undergraduate, Economics Dept.), cost/benefit analysis, public policy workshop (masters, Batten School of Public Policy).

**Sep 2000–Jan 2001 Fulbright Fellow in Environmental Economics, University of Economics, Prague, Czech Republic**

Taught undergraduate courses in environmental economics with special emphasis on the design of efficient air pollution regulations. Consulted with the *Institut pro Ekonomickou a Ekologickou Politiku (IEEP)*.

**Jul 1995 – Aug 2004 Associate Director for Economic & Regulatory Analysis, Virginia Department of Planning and Budget**

Responsibilities covered three main areas: benefit-cost analysis of regulations with special emphasis on environmental regulations, forecasting state expenditures and revenues, and special research projects. Created the concept and managed the development of the Virginia Regulatory Town Hall website. Implemented Virginia's June 2004 auction of nitrogen oxide emission allowances, the first of its kind, which raised \$10.5 million dollars. Managed the preparation of Medicaid and TANF expenditure forecasts and headcount forecasts for higher education. Chaired the committee for forecasting prison and jail headcounts. The Virginia's Regulatory Town Hall was the first in the nation web site for managing and publicizing state regulatory development. This site was honored with a "2002 Best-of-Breed" award from the Center for Digital Government, the 2002 Colborn Award (for innovation) from the National Association of Secretaries of State, and the 2003 Public Access to Government Information Award from the National Association of Law Libraries.

**Previous experience**

Fall 2003	Adjunct Assistant Professor, Dept. of Economics, Virginia Commonwealth University
Jan 2000-May 2001	Adjunct Professor, Dept. of Agricultural & Applied Economics, Virginia Tech
Aug. '89 - June '95	Assistant Professor, Dept. of Economics, Univ. of North Carolina at Greensboro
Feb. '94 - June '94	Consultant, North Carolina Department of Environment, Health and Natural Resources
Sept. '87 - July '88	Research Associate, Office of Tax Policy Research, Univ. of Michigan, Ann Arbor, MI
Aug. '86 - Jan. '89	Programmer; <i>Estima</i> (producers of the RATS econometrics program), Evanston, IL
Jan. '83 - June '84	Research Assistant to Prof. Joel Slemrod, Dept. of Economics, Univ. of Minnesota

Feb. '81 - March '81 Research Associate, Risk Management Project, Council on Environmental Quality, Executive Office of the President, Washington, D.C.

May '80 - Dec. '80 Legal Research Associate, Office of Toxic Substances, U.S. Environmental Protection Agency, Washington, D.C.

**GRANTS, COMMISSIONS, CONTRACTS, FELLOWSHIPS AND HONORS**

2010 – Present Member, Joint Advisory Board of Economists, Commonwealth of Virginia

2008 – Present Member, State Advisory Board on Air Pollution, Virginia

2010 – 2011 U.S. Environmental Protection Agency Star Grant for auction design research, with Charlie Holt.

2010 - 2011 U.Va. Bankard Fund grant, with Chris Otrok, to improve state-level economic forecasting.

2008 – 2009 Member, National Academy of Sciences panel to evaluate the U.S. Department of Labor O\*NET job description database

2009 Grant from the Virginia Business Higher Education Council to evaluate the economic impact of higher education on Virginia's economy.

2007 With Holt, Burtraw, Palmer, and Goeree; grant from New York State Energy Research & Development Authority for "Research to Support the Design of Auctions in the Regional Greenhouse Gas Initiative.

2007 Grant to develop design prototype for the Virginia Metadata Store Distributed Data Access Project.

2007 Grant from Virginia Secretary of Agriculture to evaluate the economic impact of agriculture and forestry on Virginia's economy.

2007 With Charlie Holt; Bankard Fund for Political Economy grant: "Auctions for the Allocation of Greenhouse Gas Emissions Allowances".

2007 Grant from the Virginia Department of Veteran Services to study siting of certain veteran services.

2006 Reviewer, U.S. E.P.A. Star Grants program.

2005 With John Knapp; Economic impact study of the University of Virginia.

- 2004 – 2010 Member, Unemployment Insurance Trust Fund Advisory Committee, Virginia Unemployment Commission.
- 1999 – 2005 Chair, Virginia Public Safety Technical Forecasting Committee.
- 2001 Public Sector Freedom of Information Award, Virginia Council for Open Government. For developing the Virginia Regulatory Town Hall web site.
- 2000 Fulbright Fellowship in Environmental Economics, Prague, Czech Republic.
- 1997 – 2003 Adjunct Assistant Professor, Department of Agricultural & Applied Economics, Virginia Tech, Blacksburg, Virginia
- 1994 *Summer Excellence Research Award*, Univ. of North Carolina at Greensboro. For research on the implementation of rights-based entry limitations in North Carolina's coastal fisheries.
- 1985 - 1986 *Conservation Fellowship*, National Wildlife Federation, Washington, DC.
- 1982 - 1990 Licensed Attorney, State of Minnesota
- 1978 - 1979 *Law Review*, Lewis & Clark Law School
- 1978 *Oral Advocacy Award*, Moot Court Competition, Lewis & Clark Law School

## **PUBLICATIONS AND REPORTS**

Rethinking Environmental Federalism in a Warming World (January 2012), William Shobe and Dallas Burtraw. *CEPS Working Papers* (wp12-01), Center for Economic and Policy Studies, Charlottesville, VA (Forthcoming in *Climate Change Economics*).

*Oral Health and the Dental Care Workforce in Southwest Virginia* (2011), Tanya Wanchek, Terrence Rephann, and William Shobe, Charlottesville: Center for Economic and Policy Studies.

Price Discovery in Emissions Permit Auctions (2011), Dallas Burtraw, Charlie Holt, Erica Myers, Jacob Goeree, Karen Palmer, and William Shobe, in R. Mark Isaac, Douglas A. Norton (ed.) *Experiments on Energy, the Environment, and Sustainability (Research in Experimental Economics, Volume 14)*, Emerald Group Publishing Limited, pp.11-36.

*A Database for a Changing Economy: Review of the Occupational Information Network (O\*NET)*, Nancy T. Tippins and Margaret L. Hilton, Editors; Report of the Panel to Review the Occupational Information Network; National Research Council, 2010.

- An Experimental Analysis of Auctioning Emissions Allowances under a Loose Cap, William Shobe, Dallas Burtraw, Charlie Holt, Jacob Goeree, Karen Palmer, and Erica Myers. *Agricultural and Resource Economics Review*, Vol. 39, No. 2, pp. 162-175, April 2010.
- An Experimental Analysis of Auctions versus Grandfathering to Assign Pollution Permits, with Dallas Burtraw, Charlie Holt, Jacob Goeree, and Karen Palmer. *Journal of the European Economic Association*, Vol. 8, No. 2-3: 514–525, April/May 2010.
- State and Local Climate Policy under a National Emissions Floor, with Dallas Burtraw, presented at France-Stanford Center for Interdisciplinary Studies international conference *Climate Change Policy: Insights from the U.S. and Europe*, Paris, March 2009.
- Collusion in Auctions for Emission Permits: An Experimental Analysis, with Dallas Burtraw, Charlie Holt, Jacob Goeree, Karen Palmer and Erica Myer. *Journal of Policy Analysis & Management*, Vol. 28, No. 4, pp. 672-691, 2009.
- The Design, Testing, and Implementation of Virginia’s NOx Allowance Auction, with David Porter, Stephen Rassenti, Vernon Smith, and Abel Winn. *Journal of Economic Behavior & Organization*, Vol. 69, No. 2, pp. 190 – 200, 2009.
- Going Green? The Inconvenient Truth About U.Va’s Carbon Neutrality Initiative, *Virginia Policy Review*, Vol. 2, No. 1, September-October 2008.
- The Economic Value of Publicly Supported Education and Research, *Virginia News Letter*, Vol. 84, No. 3, April 2008
- Auction Design for Selling CO2 Emission Allowances Under the Regional Greenhouse Gas Initiative*, with Dallas Burtraw, Charlie Holt, Jacob Goeree, and Karen Palmer. Research sponsored by the New York State Energy Research and Development Agency, October 2007.
- Local Options on Global Stocks: How the States are affecting the U.S. Debate on Climate Policy, with Dallas Burtraw. *Proceedings of the States and Climate Change Conference*, Woodrow Wilson School, Princeton University, 2007.
- The Economic Impact Of The University Of Virginia: How A Major Research University Affects The Local And State Economies*, with John Knapp, Weldon Cooper Center for Public Service, University of Virginia, 2007.
- An Experimental Basis for Public Policy Initiatives, with Charles A. Holt and Angela K. Smith, in *Promoting the General Welfare: American Democracy and the Political Economy of Government Performance*, Gerber and Patashnik, eds. Brookings: Washington D.C., 2006.

Book Review of *The Political Economy of the Environment* by James K. Boyce. *Environmental and Natural Resource Economics*, Vol. 23, pp. 482-485, 2002.

Trading Programs for Environmental Management: Reflections on the Air and Water Experiences, with Leonard Shabman and Kurt Stephenson of Virginia Tech, *Environmental Practice*, Vol. 4, pp. 153-162, 2002. Reprinted as Reprint Series Number 166 by the Center for Energy and Environmental Policy Research, Massachusetts Institute of Technology.

Forecasting AFDC Recipients for the Virginia State Budget, with Mark A. Prell. *Virginia Economic Journal*, Vol. 2, pp. 67-84, 1997.

Economic Impact Assessment of Virginia Regulations, Virginia Department of Planning and Budget, September 1995.

Pollution Fees and Charges in North Carolina, a report to the Regulatory Committee of the North Carolina Pollution Prevention Advisory Council", May 26, 1994.

The Use of Panel Data in the Analysis of the Behavioral Response to Taxation, with Joel B. Slemrod, in *Simulation Models in Tax and Transfer Policy*, Johann Brunner and Hans-Georg Peterson eds., Campus Verlag, New York 1990.

The Tax Elasticity of Capital Gains Realizations: Evidence from a Panel of Taxpayers, with Joel B. Slemrod. NBER Working Paper #3237, 1990.

Who Realizes Capital Gains?, with Joel B. Slemrod and Laura Kalambokidis. *Tax Notes*, October 23, 1989, pp. 494-495.

Vermont Yankee Nuclear Power Corp. v. Natural Resources Defense Council, Inc. *Environmental Law* Vol. 9, No. 3, pp. 653-705, 1979.

## **SERVICE**

Current	Joint Advisory Board of Economists, Virginia
Current	State Advisory Board on Air Pollution, Virginia
Current	Dean's Council, Batten School for Leadership & Public Policy, U.Va.
1996 - 1999	Secretary and Executive Board Member, Sabot School, Richmond, Virginia
1994	North Carolina Pollution Prevention Advisory Council, Capacity Committee
1993-1994	Sierra Club, National Economics Advisory Committee
1992-1993	Committee on Academic Computing, Univ. of North Carolina at Greensboro.

Current Referee:  
*Climate Policy, Agricultural and Resource Economics Review, Journal of the American Water Resources Association, Journal of Political Economy, Environmental Protection Agency, Review of Economics and Statistics, American Agricultural Economics Association, National Tax Journal, National Wildlife Foundation, Local Government Studies, Fulbright Program, Review of Environmental Economics and Policy*

### **RELEVANT SKILLS**

Computer languages: PHP, Ruby, Javascript, SQL, Fortran

Statistical programs: STATA, SAS, Matlab, Mathematica, R, RATS

Other: Microsoft Office, Scrivener, MySQL, HTML, XML, Regular Expressions, Rails