

Charles Towe

Agricultural and Resource Economics
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University of Connecticut,
Storrs, CT

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EDUCATION:

- Ph.D. Agricultural and Resource Economics, University of Maryland, College Park, MD, 2007
- M.S. Agricultural and Resource Economics, University of Maryland, College Park, MD, 2006
- M.A. Economics, Tufts University, Medford, MA, 1997
- B.A. Economics, University of North Carolina – Asheville, Asheville, NC, minor in Mathematics, 1996

EXPERIENCE:

Associate Professor, Agricultural and Resource Economics, Department of Agricultural and Resource Economics, University of Connecticut, Storrs, CT, 2017 – present.

Assistant Professor, Agricultural and Resource Economics, Department of Agricultural and Resource Economics, University of Connecticut, Storrs, CT, 2014 – 2017.

Research Scientist CARY Center for Ecosystem Studies, Milford, NY 2014 – present.

Assistant Professor, Agricultural and Resource Economics, Department of Agricultural and Resource Economics, University of Maryland, College Park, MD, 2008 – 2014.

Research Associate, National Center for Smart Growth and Education, University of Maryland, College Park, MD, 2008 – present.

Agricultural Economist, Economic Research Service USDA, Washington, DC 20036
June, 2007 – August, 2008.

Adjunct Professor, Johns Hopkins School of Advanced International Studies,
Washington, DC 20036, Spring 2008

Computer Programmer-Portfolio and Retirement Tools, Fidelity Investments, Boston,
MA 02109, 2000 - 2002

Consultant – Internet Commerce, Andersen Consulting (now Accenture), Boston, MA
1997 –1999

PUBLICATIONS:

Harrison, Glenn, John List, and Charles Towe. (2007) "Naturally Occurring Preferences and Exogenous Laboratory Experiments -- A Case Study of Risk Aversion." *Econometrica* 75(2): 433-458.

Bento, Antonio, Charles Towe, and Jacqueline Geoghegan. (2007). "The Effects of Moratoria on Residential Development: Evidence from Howard County, MD." *American Journal of Agricultural Economics* 89(5): 1211-1218.

Towe, Charles, Cindy Nickerson, and Nancy Bockstael. (2008). "An Empirical Examination of the Timing of Land Conversions in the Presence of Farmland Preservation Programs." *American Journal of Agricultural Economics*. 90(3): 613-626.

Briggeman, Brian, Charles Towe, and Mitch Morehart. (2009). "Credit Constraints: Their Existence, Determinants, and Implications for U.S. Farm and Non-Farm Sole-Proprietors." *American Journal of Agricultural Economics* 91: 275-289.

Towe, Charles. (2009). "A Valuation of Subdivision Open Space by Type." *American Journal of Agricultural Economics* 91:5, 1319-1325

Kaza, Nikhil, Charles Towe, and Xin Ye. (2011) "A Hybrid Land Conversion Model Incorporating Multiple End Uses," *Agricultural and Resources Economics Review* 40(3) December.

Towe, Charles and Chad Lawley. (2013). "The Contagion Effect of Neighboring Foreclosures." *May 2013 American Economic Journal – Economic Policy* 5(2): 313-335.

Towe, Charles and Constant Tra. (2013). "Vegetable Spirits and Renewable Fuels" *American Journal of Agricultural Economics* 95(1): 1-16.

Towe, Charles, Rebecca Lewis and Lori Lynch.(2014). "Using Quasi-experimental Methods to Evaluate Land Policies: Application to Maryland's Priority Funding Legislation," *The Oxford Handbook of Land Economics*, Oxford University Press, Joshua Duke and Junjie Wu editors.

Lawley, Chad and Charles Towe. (2014). "Capitalized Costs of Habitat Conservation Easements." *American Journal of Agricultural Economics* 96(3): 657-672

Adalja, Aaron, Jim Hanson, Charles Towe, and Elina Tselepidakis. (2015). "Consumer Willingness to Pay for Grass Fed Beef" –A Conjoint Survey and Experimental Economics Approach. *Agricultural and Resource Economics Review* 44(3): 253-274.

Alberini, Anna, and Charles Towe. (2015). "Information v. Energy Efficiency Incentives: Evidence from Residential Electricity Consumption in Maryland" *Energy Economics*

52(S1): 30-40

Alberini, Anna, Will Gans, and Charles Towe. (2016). "Free Riding, Upsizing, and Energy Efficiency Incentives in Maryland Homes." *The Energy Journal* 37(1): 259-290.

Tra, Constant and Charles Towe. (2016). "The Impact of Ethanol plants on Farmland Structure: Evidence from the U.S. June Agricultural Survey" *Applied Economics* 48(8): 712-722.

Towe, Charles, Allen Klaiber, and Doug Wrenn. (2017) "Exploiting spatial and temporal variations in residential subdivision development to identify urban growth spillovers." *Land Use Policy* 67: 679-89.

Lawley, Chad and Charles Towe. (2018) "Habitat Conservation in Agricultural Landscapes", *The Routledge Handbook of Agricultural Economics*, Routledge Press.

Tra, Constant and Charles Towe. (2019) "The Value of School Quality: Evidence from Housing Booms and Busts" *Journal of Regional Science*, 59(2):250-80.

Baggio, Michele, Charles Towe, Daniel Trüssel, and Armin Peter. (2020) "Evaluating the Effects of River and Stream Restorations: Evidence from Recreational Fishing" *Land Economics*, 96(1):75-91.

Towe, Charles, H. Allen Klaiber, Joe Maher, and Will Georgic (2021) "A Valuation of Urban Restored Streams Using Repeat Sales". *Environmental and Resource Economics*. *Forthcoming*.

Towe, Charles and Zhenshan Chen (2022) "Recreational Home Owners' Impact on Agricultural Land Use" *Land Economics*, *Forthcoming*.

BOOK CHAPTERS

Irwin, Elena, J. Morgan Grove, Nicholas Irwin, H. Allen Klaiber, Charles Towe, and Austin Troy (2019) Chapter 6. "Science for the Sustainable City" Yale University Press, New Haven, CT, USA.

TEACHING EXPERIENCE:

ARE 3333 Computational Economics, University of Connecticut, 2016-2020 (5 courses),

ARE 3434 Environmental Policy, University of Connecticut, 2016-2020 (6 courses)

ARE 5311/6311 Applied Econometrics I, University of Connecticut 2014-2020 (7 courses), Graduate Course

AREC 489f Econometrics with Applications, University of Maryland, Fall 2013

AREC 382 Computer Based Analysis in Agricultural and Resource Economics, University of Maryland, Fall 2010, Fall 2011, Fall 2012, Fall 2013

AREC 625/825 Advanced Welfare Economics Graduate Course, University of Maryland Fall 2009, Fall 2010, Fall 2011, Fall 2012

AREC 489f Applied Agricultural Production Economics, University of Maryland, Fall 2009

AREC 405 Agricultural Production Economics, University of Maryland, Fall 2008

Econometrics Advanced Math, Johns Hopkins University, School of Advanced International Studies Graduate program, 15 students, Spring 2008

WORKING PAPERS:

Rosenberg, Andrew, David Newburn, and Charles Towe (2020). "Household Willingness to Pay for Stream Restoration on Private and Public Land: Evidence from the Baltimore Metropolitan Region." *Under review*.

Towe, Charles & Chen, Zhenshan (2020). "Second-Home Buyer, Preferential Taxes, and Agricultural Land Cover Change". *Under review*.

Towe, Charles. "Testing the Effect of Neighboring Open Space on Development using Propensity Score Matching." *In preparation*.

Towe, Charles. "Impacts of an Incentive Based Land Use Policy: An Evaluation of Preservation Easements."

ONGOING PROJECTS:

Baggio, Michele and Charles Towe. "Climate Change and Ragweed an Evaluation of Behavioral Responses Using Averting Expenditures"

Towe, Charles and Michele Baggio. "Noise Pollution and Property Values"

Swallow, Stephen and Charles Towe "Water Quality Evaluation – Social and Pollution in Context"

CONTRACTS AND GRANTS:

Economic Research Service, \$137,500, Construction of Property Tax Database, through October 1, 2010, Principal Investigator

National Science Foundation, \$171,000 (of \$5 million total). Regional Climate Variability and Patterns of Urban Development – Impacts on the Urban Water Cycle and Nutrient Export. January 1, 2011, Co PI.

Memorandum of Understanding with Southern Maryland Electricity Cooperative to share customer billing and usage records to facilitate research involving technology adoption and energy efficiency.

Memorandum of Understanding with Maryland Department of Housing and Community Development to share phone bank data from the Maryland Homeowners Preserving

Equity (HOPE) phone bank to facilitate evaluation of intervention programs to prevent foreclosure.

EPA Region III, \$140,000, Reality Check Plus - Envisioning a Sustainable Maryland – RARE Project. July, 2011 Co-PI

USDA-ERS, \$65,000, Design and Experimental Testing of Land Retirement Auctions II. Aug. 2011.

USDA-ERS, \$50,000, Design and Experimental Testing of Land Retirement Auctions II - Extension. Aug. 2013.

Jorgensen Foundation, \$4,879 “WTP for grassfed beef”. Department of Animal and Avian Sciences, Jan. 2012.

National Science Foundation, \$149,000 (of \$1.5 million total). Coastal SEES Collaborative Research: Effects of restoration and redevelopment on nitrogen dynamics in an urban coastal watershed. August, 2014 (Co-PI)

EPA STAR, \$799,994, Valuation of Water Quality Change in Environment and Economy Context: Ecosystem Services across Gradients of Degradation and Local Economic Interest, 08/2016—8/2021, Co-PI

Social Science and Humanities Research Council of Canada, SSHRC Partnership Development Grant, \$294,974, Returns to Land Conservation Investment in Canada, 08/2016-08/2019, Co-PI.

USDA / NIFA / AFRI: Valuing Rural Stewardship of Riverine Ecosystems: Transfer-Ready Water Quality and Land Cover Co-Benefits, Linked Rural and Urban Economies , Towe, (PI), with SK Swallow, N. Fiala, T. Vadas, and P. Liu (co-PIs), \$499,500. 2021-2024.

CONFERENCES AND INVITED PRESENTATIONS:

Southern Economics Association Annual Meeting, November 21-23, 2004, New Orleans, LA.

American Agricultural Economics Association Annual Meeting, July 24-26, 2005, Providence, RI.

Camp Resources XIII, Wilmington, NC, August, 2005.

American Agricultural Economics Association Annual Meeting, 2007, Portland, OR.

North Carolina State University, invited seminar August 31, 2007, Raleigh, NC.

The Transatlantic Land Use Conference, September 25, 2007, Washington, DC.

Smart Growth at 10 – A Critical Examination Of Maryland's Landmark Land Use Program Conference, October 3-5, 2007, University of Maryland, College Park, MD

Pennsylvania State University, invited seminar, November 15, 2007, State College, PA.

United Nations Economic Commission for Europe Conference on statistical data confidentiality, December 17-19, 2007, Manchester, UK.

University of Maryland, invited seminar, April 16, 2008, College Park, MD.

Southern Economic Association Annual Meeting, 2008, Washington, DC.

Allied Social Science Association Annual Meeting, 2009, San Francisco, CA.

Center for Agriculture and Natural Resource Policy Annual Outlook Meeting, March, 2009.

American Agricultural Economics Association Annual Meeting, July, 2009, Milwaukee, WI.

Department of Housing and Community Development, State of Maryland, Crownsville, MD, December 2009.

American Agricultural Economics Association Annual Meeting, July, 2010, Denver, CO.

University of Maryland Baltimore County, invited seminar, September 24, 2010, Baltimore, MD.

North American Regional Science Council Annual Meeting, November, 2010, Denver, CO.

Association of Environmental and Resource Economists Annual Meeting, 2011, Seattle, WA

American Agricultural Economics Association Annual Meeting, July, 2011, Pittsburgh, PA.

The Economics of Water Quality Improvement in Chesapeake Bay, EPA and RFF, Oct. 2011, Washington, DC

North American Regional Science Council Annual Meeting, November, 2011, Miami, FL.

Association of Environmental and Resource Economists Annual Meeting, 2012, Asheville, NC

Agricultural and Applied Economics Association Annual Meeting, July, 2012, Seattle, WA.

Agricultural and Applied Economics Association Annual Meeting, Aug, 2013, Washington, DC.

North American Regional Science Council Annual Meeting, November, 2013, Atlanta, GA.

University of Connecticut, invited seminar, January 2014, Storrs, CT.

Association of Environmental and Resource Economists Annual Meeting, 2015, San Diego, CA

Northeast Agricultural and Resource Economics Annual Meeting, 2015, Newport, RI

Agricultural and Applied Economics Association Annual Meeting, Aug, 2015, San Francisco, CA

Association of Environmental and Resource Economists Annual Meeting, 2016, Breckenridge, CO

Northeast Agricultural and Resource Economics Annual Meeting, 2016, Bar Harbor, ME

Agricultural and Applied Economics Association Annual Meeting, Aug, 2016, Boston, MA

Association of Environmental and Resource Economists Annual Meeting, 2017, Pittsburgh, PA

Association of Environmental and Resource Economists Annual Meeting, 2019, Pittsburgh, PA

PROFESSIONAL SERVICE:

Editorships

Associate Editor, American Journal of Agricultural Economics, 2018-2021

Reviewer for,

Econometrica
American Economic Journal: Economic Policy
Economics Letters
American Journal of Agricultural Economics
Applied Economic Perspectives and Policy
Journal of Environmental Management
Journal of Environmental Economics and Management
Environmental and Resource Economics
Journal of Agricultural and Applied Economics
Agricultural and Resource Economics Review
Research in Experimental Economics
Journal of Agricultural and Resource Economics
Canadian Journal of Agricultural Economics

2009 and 2010. AAEA Annual meeting topic leader for Research
Methods/Econometrics/Statistics selected papers

2012. Grant reviewer ERS for Energy Markets and Greenhouse Gases
experimental economics grants.

2011-2013. AAEA Quality of Research Discovery Committee Member

2011-2013. Council of Professional Associations on Federal Statistics (COPAFS)
– AAEA representative

2013-2016. AAEA Economics Statistics and Information Resources Committee
Member

2015-2019. NAREA Award for Outstanding Public Service through Economics
Committee

ADVISING: RESEARCH DIRECTION

Dissertation

Thomas Krumel 2020. (Committee Member - complete)
Timothy Murray 2019. (Committee Member - complete)
Anwasha Chakrabarti 2019. (Committee Member - complete)
David Suh 2019. (Committee Member - complete)
Guanlong Fu 2019. (Committee Member - complete)
Yoon Choi 2019. (Committee Member - complete)
Mahesh Dahal 2019. (Committee Member - complete)

Mark Miller 2015. (Committee Member - complete)
Seth Wechsler 2014 (Committee Member-complete)
Rubaba Ali 2014 (Committee Member complete)
Shinsuka Uchida 2014. (Committee Member complete)
Sang Won Yoon 2014, (Committee Member complete)
Tran Trang 2013, (Committee Member complete)
Kabir Malik 2013, (Committee Member complete)
Will Gans 2012, (Committee Member complete)
Asif Islam 2012, (Committee Member complete)
Fanqing Ye 2012, (Committee Member complete)
Yi Niu 2012, (Committee Member complete)
Dennis Guignet 2011. (Committee Member-complete)
Juan Feng 2011 (Committee Member complete)
Rebecca Lewis, 2011. Urban Planning (Committee Member - complete)
Sonia Jarvis 2011. (Committee Member-complete)
David Herberich 2010. (Committee Member-completed)
Anmol Ratan 2010. (Committee Member-completed)
Nathanial Higgins 2010. (Committee Member-completed)
Timothy Fitzgerald 2009. (Committee Member-completed)
Lopa Chokrabarti 2008. (Committee Member-completed)

Dissertation in process (prospectus complete)

Zhenshan Chen (Committee chair)

Wan Chang (Committee chair)