

## Charles Towe

Agricultural and Resource Economics  
301 W.B. Young Building  
University of Connecticut,  
Storrs, CT

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charles.towe@uconn.edu

### 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.  
Richard DeFavero, Endowed Professor of Agricultural Economics, 2022 – 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, Millbrook, 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 – 2014.

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

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

Computer Programmer-Portfolio and Retirement Tools, Fidelity Investments, Boston, MA, 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." *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 and Instrumental Variables." *Environmental and Resource Economics*, 80: 199-219.

Rosenberg, Andrew, David Newburn, and Charles Towe. (2023). "Household Willingness to Pay for Stream Restoration on Private and Public Land: Evidence from the Baltimore Metropolitan Region." *Journal of the American Water Resources Association*, 59(2): 376-395.

Towe, Charles, and Zhenshan Chen (2023) "Recreational Home Owners' Impact on Agricultural Land Use"." *Land Economics*, 99(1): 17-37.

Chen, Zhenshan, and Charles Towe. (2023) "Pricing Coastal Amenities." *Land Economics*, *Accepted*.

## 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- present,

ARE 2434 Environmental Policy, University of Connecticut, 2017-present

ARE 5311/6311 Applied Econometrics I, University of Connecticut 2014-present,  
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:**

Chen, Zhenshan, and Charles Towe. (2022) "Flood Zone in the Coastal Housing Market – A Risk Signal or Mandatory Costs?" *Under review*.

Chen, Zhenshan, and Charles Towe (2023) "Sorting over the Dual Risk of Coastal Housing Market - Who Surfs the Tide, Who Bears the Blunt?"

Towe, Charles, Michele Baggio, and Zhenshan Chen. (2022) "The Housing Market Impacts of Noise Pollution: Evidence from a Natural Experiment" with

**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"

Dang, Ruirui, Pengfei Liu, Stephen Swallow, and Charles Towe "Water Quality Evaluation – Social and Pollution in Context"

**CONTRACTS AND GRANTS (funded):**

Economic Research Service, \$137,500, Construction of Property Tax Database, through October 1, 2010, Michael Brady, Elena Irwin, Cindy Nickerson, and Charles Towe. Joint 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—8/2023 (with NCE), 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.

The Connecticut Institute for Resilience and Climate Adaptation (CIRCA). Real estate values, tax revenues, and climate change-induced retreat from flood zones. Towe, Charles (PI) and Stephen Swallow. \$200,000. 2018-2021.

USDA / NIFA / AFRI: Wind Energy Driving Rural Change. Towe, C. (current PI), with SK Swallow (original PI), and M. Heintzelman (U. Delaware), \$499,500. 2019-2024 (with NCE).

USDA / NIFA Ecosystem services foundations for resilient communities: Agriculture, land use, coasts, and energy for human well-being. Steinbeck, Sandro, Stephen Swallow, and Charles Towe (joint PIs), \$50,000. 2020-2023.

USDA / NIFA / AFRI: Forest-based land use and management among amenity-laden rural landscapes. Towe, C. (PI), and Anita Morzillo, \$60,000. 2021-2024.

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 (presenter only):**

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

Connecticut Institute for Resilience and Climate Adaptation (CIRCA), Feb. 2021, Virtual  
Webinar.

**PROFESSIONAL SERVICE: (with significant time commitments):**

Editorships

Associate Editor, American Journal of Agricultural Economics, 2018-2021.  
Editor, Agricultural and Resource Economics Review, Special issue 2022-23.

Reviewer for,

Econometrica  
American Economic Journal: Economic Policy  
Economics Letters  
Economic Journal  
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  
Land Economics  
Journal of Housing Economics  
Journal of Regional Science

National and Regional Service

- Northeastern Agricultural and Resource Economics Association - President. 2023-2024.
- Northeastern Agricultural and Resource Economics Association - President-Elect. 2022-2023.
- Outstanding *American Journal of Agricultural Economics* Article award committee, 2018-2021.
- Northeastern Agricultural and Resource Economics Association - CAM mentor, 2018.
- USDA NIFA AERC Economics Markets and Trade Grant Reviewer. 2018.

- Northeastern Agricultural and Resource Economics Association - Award for Outstanding Public Service through Economics Committee. 2015-2019.
- Agricultural and Applied Economics Association - Economics Statistics and Information Resources Committee Member. 2013-2016
- USDA NIFA AFRI Environmental Economics Grant Reviewer. 2012.
- Council of Professional Associations on Federal Statistics (COPAFS) – AAEA representative. 2011-2013.
- Agricultural and Applied Economics Association Quality of Research Discovery Committee Member. 2011-2013.
- USDA – Economic Research Service - Energy Markets and Greenhouse Gases, experimental economics grants. Grant reviewer. 2012.
- Agricultural and Applied Economics Association Annual meetings topic leader for Research Methods/Econometrics/ Statistics selected papers. 2009-2010.

#### University Service

- Connecticut Center for Economic Analysis, Associate Director, 2023 – present.
- Data Science Admissions Committee Member, 2022 - present.
- Data Science Faculty Steering Committee Member, 2021-2023.
- UConn Data Science Committee Member, 2019-2020.
- Graduate Faculty Representative, Graduate Faculty Council, 2017-2020.

#### College Service

Member, Strategic Visioning Committee, College of Agriculture, Health, and Natural Resources, 2019-2020.

Co-Chair, Strategic Visioning Implementation Committee, College of Agriculture, Health, and Natural Resources, 2020-2022.

CAHNR Faculty Advisory Council, 2015-2017.

Hatch Grant reviewer. 2023.

#### Departmental Service

PTR Committee chair, 2018.

PTR Committee member, 2017-2021.

Faculty Search Committee chair, 2016, 2019.

Faculty Search Committee member, 2015, 2021, 2022.

Graduate Program Coordinator, 2016-2022.

Ph.D. Steering Committee member, 2016-2022.

Ph.D. Comprehensive Exam Committee chair, 2023.

Ph.D. Comprehensive Exam Committee member, 2014-2021.

### **ADVISING: RESEARCH DIRECTION**

#### Dissertation

Hang Zhao (2023) (Committee Chair)

Dongin Kim (2023) (Committee member)

Soojung Ahn (2023) (Committee member)

Xiting Zhuang (2023) (Committee member)  
Zhenshan Chen (2021) (Committee Chair)  
Wan Soek Chang (2021) (Committee Chair)  
Eric Njuki (2021) (Committee Member)  
Eric Owusu (2021) (Committee Member)  
Yin Ma (2021) (Committee Member)  
Mahesh Dahal (2020) (Committee Member)  
Mahdi Fallahi (2020) (Committee Member)  
Joanna Noelia Kamiche Zegarra (2020) (Committee Member)  
Alicia Barriga (2020) (Committee Member)  
Thomas Krumel 2020. (Committee Member)  
Timothy Murray 2019. (Committee Member)  
Anwasha Chakrabarti 2019. (Committee Member)  
David Suh 2019. (Committee Member)  
Guanlong Fu 2019. (Committee Member)  
Yoon Choi 2019. (Committee Member)  
Mark Miller 2015. (Committee Member)  
Seth Wechsler 2014 (Committee Member)  
Rubaba Ali 2014 (Committee Member)  
Shinsuka Uchida 2014. (Committee Member)  
Sang Won Yoon 2014, (Committee Member)  
Tran Trang 2013, (Committee Member)  
Kabir Malik 2013, (Committee Member)  
Will Gans 2012, (Committee Member)  
Asif Islam 2012, (Committee Member)  
Fanqing Ye 2012, (Committee Member)  
Yi Niu 2012, (Committee Member)  
Dennis Guignet 2011. (Committee Member)  
Juan Feng 2011 (Committee Member)  
Rebecca Lewis, 2011. Urban Planning (Committee Member)  
Sonia Jarvis 2011. (Committee Member)  
David Herberich 2010. (Committee Member)  
Anmol Ratan 2010. (Committee Member)  
Nathanial Higgins 2010. (Committee Member)  
Timothy Fitzgerald 2009. (Committee Member)  
Lopa Chokrabarti 2008. (Committee Member)

Dissertation in process

Ruirui Dang (Committee member)  
Theophilis Djaba (Committee member)  
Eniola Fasola (Committee member)  
Samjhana Koirala (Committee member)  
Sulin Chowdhury (Committee member)

