

Dennis Guignet

Department of Economics
Appalachian State University
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EDUCATION:

- Ph.D. Agricultural and Resource Economics, University of Maryland, College Park, MD, 2011.
- M.S. Agricultural and Resource Economics, University of Maryland, College Park, MD, 2009.
- B.S. Environmental and Renewable Resource Economics, The Pennsylvania State University, State College, PA, 2006. *Highest Distinction*. Minor in Geographical Information Systems (GIS).

EMPLOYMENT:

- Assistant Professor, Department of Economics, Appalachian State University, Boone, NC. 2018 - present
- Research Economist, National Center for Environmental Economics, US Environmental Protection Agency, Washington, DC. 2011 – 2018
- Lecturer, Department of Agricultural and Resource Economics, University of Maryland, College Park, MD. 2017 – 2018
- Adjunct Assistant Professor, Department of Economics, American University, Washington, DC. 2016 – 2017
- Research Assistant, Fondazione Eni Enrico Mattei (FEEM), Milan, Italy. 2010 – 2011
- Research Assistant, Department of Agricultural and Resource Economics, University of Maryland, College Park, MD. 2006 – 2010
- Research Assistant, Department of Agricultural Economics and Rural Sociology, The Pennsylvania State University, State College, PA. 2005 – 2006

TEACHING:

- Appalachian State University
- ECO 2030: Principles of Microeconomics. 2018-2022.
- ECO 4660/5660: Benefit-Cost Analysis. 2019-2021.
- ECO 4810: Seminar in Economics (Senior Capstone Course). 2022.

TEACHING (cont.):

University of Maryland

AREC 240: Introduction to Economics and the Environment. 2017.

American University

ECON 379: Economics of Environmental Policy. 2016-2017.

Teaching Assistant

AREC 200: The Chesapeake Bay Ecosystem: Intersection of Science, Economics, and Policy. University of Maryland. 2010-2011.

CHEM 12: Chemical Principles. The Pennsylvania State University Berks-Lehigh Valley. 2003.

PUBLICATIONS:

Guignet, Dennis, and Christoph Nolte (2023), "Hazardous Waste and Home Values: An Analysis of Treatment and Disposal Sites in the U.S.," *Journal of the Association of Environmental and Resource Economists*, forthcoming.

Guignet, Dennis, Robin Jenkins, James Belke, and Henry Mason (2023), "The Property Value Impacts of Industrial Chemical Accidents," *Journal of Environmental Economics and Management*, forthcoming.

Walsh, Patrick J., Dennis Guignet, and Pamela Booth (2023), "Eliciting Policy Relevant Stated Preference Values for Water Quality: An Application to New Zealand," *Agricultural and Resource Economics Review*, forthcoming.

Nolte, Christoph, Kevin J. Boyle, Anita Chaudhry, Christopher Clapp, Dennis Guignet, Hannah Hennighausen, Ido Kushner, Yanjun Liao, Saleh Mamun, Adam Pollack, Jesse Richardson, Shelby Sundquist, Kristen Swedberg, Johannes H. Uhl (2023), "Data practices for studying the impacts of environmental amenities and hazards with nationwide property data," *Land Economics*, forthcoming.

Bui, Linda TM, Ron Shadbegian, Alicia Marquez, Heather Klemick, and Dennis Guignet (2022), "Does Short-Term, Airborne Lead Exposure During Pregnancy Affect Birth Outcomes? Quasi-Experimental Evidence from NASCAR's Deleading Policy," *Environment International*, 166, 107354.

Guignet, Dennis, Matthew T. Heberling, Michael Papenfus, and Olivia Griot (2022), "Property values, water quality, and benefit transfer: A nationwide meta-analysis," *Land Economics*, 98(2), 191-218.

Klemick, Heather, Dennis Guignet, Linda Bui, Ron Shadbegian, and Cameron Milani (2022), "Cardiovascular Mortality and Leaded Aviation Fuel: Evidence from Piston-Engine Air Traffic in North Carolina," *International Journal of Environmental Research and Public Health*, 19, 5941.

PUBLICATIONS (cont.):

- Kung, Megan, Dennis Guignet, and Patrick Walsh (2022), “Comparing Pollution Where You Live and Play: A Hedonic Analysis of Enterococcus in the Long Island Sound,” *Marine Resource Economics*, 37(1), 65-89.
- Guignet, Dennis, and Jonathan Lee (2022), “State of the Art of Hedonic Pricing,” In J.R. Kahn (Ed.), *Oxford Research Encyclopedia of Environmental Economics*, Oxford University Press. doi: <https://doi.org/10.1093/acrefore/9780199389414.013.555>.
- Petrolia, Daniel R., Dennis Guignet, John Whitehead, Cannon Kent, Clay Caulder, and Kelvin Amon (2021), “Nonmarket Valuation in the Environmental Protection Agency’s Regulatory Process,” *Applied Economic Perspectives and Policy*, 43(3), 952-969.
- Shadbegian, Ron, Dennis Guignet, Heather Klemick, and Linda Bui (2019), “Early Childhood Lead Exposure and the Persistence of Educational Consequences into Adolescence,” *Environmental Research*, 178, 108643.
- Walsh, Patrick, Charles Griffiths, Dennis Guignet, and Heather Klemick (2019), “Adaptation, Sea Level Rise, and Property Prices in the Chesapeake Bay Watershed,” *Land Economics*, 95(1), 19-34.
- Guignet, Dennis, Robin Jenkins, Matthew Ranson, and Patrick Walsh (2018), “Contamination and Incomplete Information: Bounding Implicit Prices using High-Profile Leaks,” *Journal of Environmental Economics and Management*, 88, 259-282.
- Guignet, Dennis, and Adan L. Martinez-Cruz (2018), “The Impacts of Underground Petroleum Releases on a Homeowner’s Decision to Sell: A Difference-in-Differences Approach,” *Regional Science and Urban Economics*, 69, 11-24.
- Moore, Chris, Dennis Guignet, Kelly Maguire, Nathalie Simon, and Chris Dockins (2018) “Valuing Ecological Improvements in the Chesapeake Bay and the Importance of Ancillary Benefits”, *Journal of Benefit-Cost Analysis*, 9(1), 1-26.
- Klemick, Heather, Charles Griffiths, Dennis Guignet, Patrick J. Walsh (2018), “Improving Water Quality in an Iconic Estuary: An Internal Meta-analysis of Property Value Impacts Around the Chesapeake Bay”, *Environmental and Resource Economics*, 69(2), 265-292.
- Walsh, Patrick, Charles Griffiths, Dennis Guignet, and Heather Klemick (2017), “Modeling the Property Price Impact of Water Quality in 14 Chesapeake Bay Counties,” *Ecological Economics*, 135, 103-113.
- Guignet, Dennis, Charles Griffiths, Heather Klemick, and Patrick J. Walsh (2017), “The Implicit Price of Aquatic Grasses,” *Marine Resource Economics*, 32(1), 21-41.
- Guignet, Dennis, Patrick J. Walsh, and Rachel Northcutt (2016), “Impacts of Ground Water Contamination on Property Values: Agricultural Run-off and Private Wells,” *Agricultural and Resource Economics Review*, 45(2), 293-318.

PUBLICATIONS (cont.):

- Guignet, Dennis and Anna Alberini (2015), "Can Property Values Capture Changes in Environmental Health Risks? Evidence from a Stated Preference Study in Italy and the United Kingdom," *Risk Analysis*, 35(3), 501-517.
- Guignet, Dennis (2013), "What Do Property Values Really Tell Us? A Hedonic Study of Pollution from Underground Storage Tanks," *Land Economics*, 89(2), 211-226.
- Guignet, Dennis (2012), "The Impacts of Pollution and Exposure Pathways on Home Values: A Stated Preference Analysis," *Ecological Economics*, 82, 53-63.
- Alberini, Anna, Milan Šcasný, Dennis Guignet, and Stefania Tonin (2012), "Cancer VPFs, One Size Does Not Fit All: The Benefits of Contaminated Site Cleanups in Italy," *Journal of the Air and Waste Management Association*, 62(7), 783-798.
- Zabel, Jeffrey and Dennis Guignet (2012), "A Hedonic Analysis of the Impact of LUST Sites on House Prices," *Resource and Energy Economics*, 34(4), 549-564.
- Guignet, Dennis and Anna Alberini (2010), "Voluntary Cleanup Programs and Redevelopment Potential: Lessons from Baltimore, Maryland," *Cityscape: A Journal of Policy Development and Research*, 12(3), 7-36.
- Ready, Richard, Ann Fisher, Dennis Guignet, Richard Stedman and Junchao Wang (2006). "A Pilot Test of a New Stated Preference Valuation Method: Continuous Attribute-Based Stated Choice," *Ecological Economics*, 59, 247-255.

WORKING PAPERS:

- McFarland, Craig, Peter A. Groothuis, and Dennis Guignet (2023), "The Role of Football Win Percentage on College Applications for Power Five and Group of Five Schools," Appalachian State University Department of Economics working Paper, 23-02, Boone, NC, May.
- Guignet, Dennis, Robin R Jenkins, Christoph Nolte, and James Belke (2023), "The External Costs of Industrial Chemical Accidents: A Nationwide Property Value Study," US EPA National Center for Environmental Economics Working Paper, 23-01, Washington, DC, February.
- Guignet, Dennis and Adan L. Martinez-Cruz (2022), "Valuing the Impacts of Chemicals on Environmental Endpoints: A Scoping Study," Organisation for Economic Co-operation and Development (OECD), Series on Risk Management, 75, Paris, France, December.
- Heberling, Matthew T., Dennis Guignet, and Michael Papenfus (2022), "Water Quality and Hedonic Models: A Meta-Analysis of Commodity, Market, and Methodological Characteristics," Appalachian State University Department of Economics Working Paper, 22-06, Boone, NC, August.

WORKING PAPERS (cont.):

Guignet, Dennis, Christopher Moore, and Haoluan Wang (2020), “Hot Spots, Cold Feet, and Warm Glow: Identifying Spatial Heterogeneity in Willingness to Pay,” US EPA National Center for Environmental Economics Working Paper, 20-01, Washington, DC, March.

Maguire, Kelly B., Chris Moore, Dennis Guignet, Chris Dockins, and Nathalie B. Simon (2018), “Muddying the Water? An Analysis of Non-Constant Baselines in Stated Preference Surveys,” US EPA National Center for Environmental Economics Working Paper, 18-02, Washington, DC, May.

Guignet, Dennis (2014), “To Sell or Not to Sell: The Impacts of Pollution on Home Transactions,” US EPA National Center for Environmental Economics Working Paper, 14-01, Washington, DC, January.

PRESENTATIONS:

“The External Costs of Industrial Chemical Accidents: A Nationwide Property Value Study,” US Department of Agriculture Economic Research Service Seminar Series, Kansas City, MO, September 2022.

“The Impacts of Mitigating Hazardous Chemical Exposure on Infant Health,” Association of Environmental and Resource Economists’ Annual Summer Conference, Miami, FL, June 2022.

“The Property Value Impacts of Industrial Chemical Accidents,” 2022 Appalachian Experimental and Environmental Economics Workshop, Appalachian State University, Boone, NC, April 2022.

“The Property Value Impacts of Industrial Chemical Accidents,” Centre for Environmental and Resource Economics Seminar Series, Umeå University and the Swedish University of Agricultural Sciences, Umeå, Sweden, September 2021.

“Hazardous Waste and Home Values: An Analysis of Treatment and Disposal Sites in the U.S.,” 2021 PLACES Webinar: Land, Water, and ZTRAX, Boston, MA, June 2021.

“Hazardous Waste and Home Values: An Analysis of Treatment and Disposal Sites in the U.S.,” presented at the Northeastern Agricultural and Resource Economics Association’s Virtual Conference, June 2021.

“Hazardous Waste and Home Values: A Nationwide Quasi-Experiment of RCRA Sites,” presented at the Department of Economics Seminar Series, University of Calgary, Calgary, Canada, April 2021.

“Hazardous Waste and Home Values: A Nationwide Quasi-Experiment of RCRA Sites,” presented at the Center for Health Economics and Policy Studies Seminar Series, San Diego State University, San Diego, CA, March 2021.

PRESENTATIONS (cont.):

- “Quasi-experimental Methods to Value the Cost of Hazardous Releases and Cleanups,” presented at the Private-Land Conservation Evidence (PLACES) Lab’s Research and Data Workshop, Boston, MA, June 2020.
- “Property Values and Water Quality: A Nationwide Meta-Analysis and the Implications for Benefit Transfer,” presented at a US Department of “Applications and Potential of Ecosystem Services Valuations within USDA – Advancing the Science” Workshop, Washington, DC, April 2019.
- “Examining Non-response Bias in Stated Choice Experiments,” presented at the Southern Economic Association’s Annual Conference, Washington, DC, November 2018.
- “The Spatial Distribution of WTP and Status Quo Effects: An Application to the Chesapeake Bay Watershed,” presented at the Northeastern Agricultural and Resource Economics Association’s Annual Meeting, Philadelphia, PA, June 2018.
- “Property Values and Water Quality: A Nationwide Meta-Analysis and the Implications for Benefit-Transfer,” presented at the 10th Annual Conference of the Society for Benefit Cost Analysis, Washington, DC, March 2018.
- “Stated Preference Methods & Valuing Surface Water Quality Improvements,” presented at the National Socio-Environmental Synthesis Center’s (SESYNC) Seminar Series, Annapolis, MD, May 2017.
- “The Property Value Impacts of Groundwater Contamination: Agricultural Runoff and Private Wells,” presented at the Northeastern Agricultural and Resource Economics Association’s Water Quality Economics Workshop, Newport, RI, June 2015.
- “Do Home Values Respond to Underground Storage Tank Releases? An Examination of High-Profile Cases Across the US,” presented at the Northeastern Agricultural and Resource Economics Association’s and the Canadian Agricultural Economic Society’s Joint Annual Meeting, Newport, RI, June 2015.
- “A Stated Preference Study of the Chesapeake Bay and Watershed Lakes,” presented at the Allied Social Science Associations’ (ASSA) 2015 Meeting, Boston, MA, January 2015.
- “The Implicit Price of Aquatic Grasses,” presented at Resources for the Future’s (RFF) Academic Seminar Series, Washington, DC, October 2014.
- “The Implicit Price of SAV: A Hedonic Study of the Chesapeake Bay,” presented at the Northeast Agricultural and Resource Economics Association’s Annual Meeting, Morgantown, WV, June 2014.
- “To Sell or Not To Sell: The Impacts of Pollution on Home Transactions,” presented at the 6th Annual Conference of the Society for Benefit Cost Analysis, Washington, DC, March 2014.

PRESENTATIONS (cont.):

“To Sell or Not To Sell: The Impacts of Pollution on Home Transactions,” presented in Sponsored Session at the Association of Environmental and Resource Economists’ 3rd Annual Summer Conference, Banff, Canada, June 2013.

“Can Property Values Capture Changes in Environmental Health Risks: Evidence from a Stated Preference Study in Italy and the UK,” presented at the Association of Environmental and Resource Economists’ 2nd Annual Summer Conference, Asheville, NC, June 2012.

“What do Property Values Really Tell Us? A Hedonic Study of Pollution from Underground Storage Tanks,” presented at the Annual Conference of the Society for Benefit Cost Analysis, Washington, DC, October 2011.

“What do Property Values Really Tell Us? A Hedonic Study of Pollution from Underground Storage Tanks,” presented at the Agricultural and Applied Economics Association and Northeastern Agricultural and Resource Economics Association’s Joint Annual Meeting, Pittsburgh, PA, July 2011.

“A Hedonic Analysis of the Impact of LUST Sites on House Prices,” presented at the Association of Environmental and Resource Economists’ Inaugural Summer Conference, Seattle, WA, June 2011.

“Environmental Health Risks and Home Values: A Revealed and Stated Preference Analysis,” presented in the Research Sketches Session at the National Bureau of Economic Research (NBER) Environmental and Energy Economics Workshop, Cambridge, MA, July 2010.

“The Effects of LUSTs on Home Values: Is Proximity Enough?,” presented at the 4th World Congress of Environmental and Resource Economists, Montreal, Canada, July 2010.

“LUSTs as Contaminated Sites: What are the Effects on Property Values?,” presented at the 17th Annual Conference of the European Association of Environmental and Resource Economists, Amsterdam, The Netherlands, June 2009.

“Participation in Voluntary Cleanup Programs: A Case Study of Maryland,” presented at the International Atlantic Economic Conference, Savannah, GA, October, 2007.

FELLOWSHIPS AND GRANTS:

Faculty Research Fellowship, Office of Land and Emergency Management, US Environmental Protection Agency, Research Participation Program administered by the Oak Ridge Institute for Science and Education (ORISE), 2019-2024.

Undergraduate Research Assistant Support Grant, Office of Student Research, Appalachian State University, 2022, \$2,200.

FELLOWSHIPS AND GRANTS (cont.):

Dean's Club Summer Research Grant, Walker College of Business, Appalachian State University, 2021-2022, \$6,000.

Conducting Complex Research Together Grant, Research Institute for Environment, Energy, and Economics, Appalachian State University, 2019-2020, \$4,650.

Dean's Club Grant, Walker College of Business, Appalachian State University, 2019-2020, \$4,000.

Undergraduate Research Assistant Support Grant, Office of Student Research, Appalachian State University, 2019-2020, \$2,000.

CONSULTING:

Earthjustice, United States (2023)

Organisation for Economic Co-operation and Development (OECD), France (2021-2022)

Landcare Research, New Zealand (2018-2019)

AWARDS:

Dean's Club Research Prize: 1st Place, Walker College of Business, Appalachian State University (2020, 2023)

Scientific and Technological Achievement Award: Level III Award, Office of Research and Development, US Environmental Protection Agency (2021)

Bronze Medal for Commendable Service, US Environmental Protection Agency (2016)

Partners of OW Award, Office of Water, US Environmental Protection Agency (2016)

Scientific and Technological Achievement Award: Honorable Mention, Office of Research and Development, US Environmental Protection Agency (2015)

Trudy A. Speciner Non-Supervisory Award for Advancing Environmental Protection, US Environmental Protection Agency (2014)

Superior Efforts and Contributions Award, Office of the Administrator, US Environmental Protection Agency (2012, 2014, 2016)

Young Professional Travel Grant, Agricultural and Applied Economics Assoc. (2011)

Award for Excellence and Innovation in Undergraduate Teaching in the Marquee Courses in Science and Technology, University of Maryland (2011)

Distinguished Teaching Assistant, University of Maryland (2010)

Jacob K. Goldhaber Travel Award, University of Maryland (2009)

Graduation Marshall, College of Agricultural Sciences, Pennsylvania State University (2006)

Evan Pugh Scholar Senior Award, Pennsylvania State University (2006)

Goizueta Scholars Award, The Goizueta Foundation (2005)

The Honor Society of Agriculture Gamma Sigma Delta's Junior Scholarship (2005)

Evan Pugh Scholar Junior Award, Pennsylvania State University (2004)

The Honor Society of Agriculture Gamma Sigma Delta's Sophomore Scholarship (2004)

President's Freshman Award, Pennsylvania State University (2002)

Eagle Scout, Boy Scouts of America (2001)

REFEREE EXPERIENCE:

Agricultural and Resource Economics Review (2022, 2019, 2015), *Ecological Economics* (2013), *Economics* (2017), *Energy Economics* (2021), *Environmental and Resource Economics* (2014, 2021, 2022), *Environment and Planning C: Government and Policy* (2013), *Environmental Economics and Policy Studies* (2018), *Health Affairs* (2011), *International Journal of Sustainable Transportation* (2016), *International Regional Science Review* (2014), *International Journal of Urban Sciences* (2017), *Journal of the Association of Environmental and Resource Economists* (2019), *Journal of Environmental Economics and Management* (2023, 2022, 2020, 2019, 2018, 2017, 2014, 2011, 2010), *Journal of Housing Economics* (2020), *Journal of Regional Science* (2020), *Land Economics* (2022, 2020, 2017, 2016, 2015, 2014, 2012), *Leisure Sciences* (2015), *Marine Resource Economics* (2020), *Policy Sciences* (2012), *Proceedings of the National Academy of Sciences* (2019), *Regional Science and Urban Economics* (2011), *Resource and Energy Economics* (2019, 2018, 2015, 2014), *Science of the Total Environment* (2018), *Sustainability* (2017, 2015), *Water Economics and Policy* (2015).

PROFESSIONAL SERVICE:

Chair: Selected Papers Committee, Northeastern Agricultural and Resource Economics Association's 2023 Annual Conference, 2022-2023.

Panel Review Member: National Science Foundation (NSF), 2022.

Session Chair: Pollution Exposure and Children's Cognitive and Health Outcomes session at the Association of Environmental and Resource Economists' Conference, Miami, FL, 2022.

Panel Review Member: US Environmental Protection Agency, 2022.

Session Co-organizer: 2021 PLACES Webinar: Land, Water, and ZTRAX, 2021.

Discussant: Association of Environmental and Resource Economists' Virtual Conference, 2020.

Expert Reviewer: University of Wisconsin Water Resources Institute, 2019.

Expert Reviewer: Inter-American Development Bank, Workshop on Discrete Choice Experiment on Housing in Mexico City, 2019.

Program Committee Member: Association of Environmental and Resource Economists' sponsored sessions at the Southern Economic Association Annual Conference, 2019.

Reviewer: US Department of Agriculture sponsored workshop on Applications and Potential Ecosystem Services Valuation within USDA, 2018.

Session Chair: Benefit-Cost Analysis session sponsored by the Association of Environmental and Resource Economists at the Southern Economic Association's Annual Conference, Washington, DC, 2018.

Session Chair: Hedonic Price Studies and BCA session at the 10th Annual Conference of the Society for Benefit Cost Analysis, Washington, DC, 2018.

Book Reviewer: *Environmental & Natural Resource Economics* (11th ed.) by Tom Tietenberg & Lynne Lewis, Taylor & Francis, 2017.

Panel Review Member: US Department of Housing and Urban Development National Disaster Resilience Competition, 2015.

Moderator: The Northeastern Agricultural and Resource Economics Association's and the Canadian Agricultural Economic Society's Joint Annual Meeting, Newport, RI, 2015.

Member: Selected Papers and Symposia Committee, Northeastern Agricultural and Resource Economics Association's 2016 Annual Conference, 2015-2016.

PROFESSIONAL SERVICE (cont.):

Moderator: US Environmental Protection Agency sponsored workshop on the Economics of Water Quality Improvement in Chesapeake Bay, Washington, DC, 2011.

Discussant: The Agricultural and Applied Economics Association and Northeastern Agricultural and Resource Economics Association's Joint Annual Meeting, Pittsburgh, PA, 2011.

Discussant: 4th World Congress of Environmental and Resource Economists, Montreal, Canada, 2010.

Discussant: 17th Annual Conference of the European Association of Environmental and Resource Economists, Amsterdam, The Netherlands, June 2009.

Discussant: International Atlantic Economic Conference, Savannah, GA, Oct. 2007.

PROFESSIONAL ORGANIZATIONS:

Northeast Agricultural and Resource Economics Association

Association of Environmental and Resource Economists

COMPUTER SKILLS: ArcGIS, Stata, R