

Dennis Guignet

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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:

Associate Professor, Department of Economics, Appalachian State University, Boone, NC.	2024 - present
Assistant Professor, Department of Economics, Appalachian State University, Boone, NC.	2018 - 2024
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. 2018-2024.
ECO 4660/5660: Benefit-Cost Analysis. 2019-2021.
ECO 4810: Seminar in Economics (Senior Capstone Course). 2022-2024.

University of Maryland
AREC 240: Introduction to Economics and the Environment. 2017.

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

FELLOWSHIPS AND GRANTS:

National Science Foundation, “Mental Health Implications of Compounding Climate Events on Youth Populations,” 2024-2027 (Co-I), \$525,764.

Appalachian State University, Cratis D Williams School of Graduate Studies, Graduate Research Assistant Mentoring (GRAM) Program, “The Impacts of Chemical and Non-chemical Stressors on Maternal and Child Health” (PI), 2024-2025, \$14,000.

National Science Foundation, Analytics for Equity, “The Effects of Toxic Air Pollution and Climate Change on Maternal and Child Health: A Scoping Study of Vulnerable Communities and Research Needs” (PI), 2023-2024, \$74,517.

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

Appalachian State University, Office of Student Research, Undergraduate Research Assistant Support Grant, 2024 (PI), \$2,400.

Appalachian State University, Walker College of Business, Dean’s Club Summer Research Grants, 2019-2024, \$14,000.

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

Research Institute for Environment, Energy, and Economics, Appalachian State University, Conducting Complex Research Together Grant, “The Economic Impacts of Coastal Groundwater Issues from Sea-Level Rise” (PI), 2019-2020, \$4,650.

Appalachian State University, Walker College of Business, Dean’s Club Grant, 2019-2020, \$1,000.

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

PUBLICATIONS:

Guignet, Dennis, O. Ashton Morgan, Craig E. Landry, John C. Whitehead, and William P. Anderson (2024), “Sea-level Rise, Groundwater Quality, and the Impacts on Coastal Homeowners,” *Journal of Housing Economics*, forthcoming.

Whitehead, John C., William P. Anderson, Dennis Guignet, Craig E. Landry, and O. Ashton Morgan (2024), “Sea-level Rise, Drinking Water Quality and the Economic Value of Coastal Tourism in North Carolina,” *Water Resources Research*, forthcoming.

PUBLICATIONS (cont.):

Shadbegian, Ron, Linda Bui, Heather Klemick, Rebecca Margolit, Anh Hoang, and Dennis Guignet, "[Low-Level, Early Life Lead Exposure and School Behavior](#)," *Pediatrics*, 154(S2): e2024067808D.

Bui, Linda TM, Ron Shadbegian, Heather Klemick, Dennis Guignet, Rebecca Margolit, and Anh Hoang (2024), "[How Effective Are Secondary Interventions at Improving Health Outcomes in Children Exposed to Lead in Early Childhood?](#)," *Review of Environmental Economics and Policy*, 18(2), 261-278.

Brodin, Sarah, and Dennis Guignet (2024), "[Layers of Injustice: A Distributional Assessment of Toxic Chemical Facilities, Releases, and Cleanups](#)," *Journal of Environmental Management*, 370, 122415.

Soale, Abdul-Nasah, Rashida Callender, Dennis Guignet, Ron Shadbegian, and Marie Lynn Miranda (2024), "[Association between Residential Distance to Airport and Blood Lead Levels in Children Under 6 Living in North Carolina, 1992-2015](#)," *Environmental Health Perspectives*, 132(8), 087701.

McFarland, Craig, Peter A. Groothuis, and Dennis Guignet (2024), "[The Role of Football Win Percentage on College Applications for Power Five and Group of Five Schools](#)," *Contemporary Economic Policy*, 42(3), 474-482.

Burlingame, Matthew, Dennis Guignet, Matthew Heberling, and Michael Papenfus (2024), "[Using Benefit Transfer to Estimate Housing Value Increases from Improved Water Clarity: A Case Study of Lakes in Kosciusko County, Indiana](#)," *Journal of the American Water Resources Association*, 60, 363-379.

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 (2024), "[Data practices for studying the impacts of environmental amenities and hazards with nationwide property data](#)," *Land Economics*, 100(1), 200-221.

Guignet, Dennis, and Christoph Nolte (2024), "[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*, 11(2), 487-521.

Heberling, Matthew T., Dennis Guignet, and Michael Papenfus (2024), "[Hedonic Property Values and Water Quality: A Meta-Analysis of Commodity, Market, and Methodological Choices](#)," *Journal of Environmental Management*, 352, 119829.

Guignet, Dennis, Robin R Jenkins, Christoph Nolte, and James Belke (2023), "[The External Costs of Industrial Chemical Accidents: A Nationwide Property Value Study](#)," *Journal of Housing Economics*, 62, 101954.

PUBLICATIONS (cont.):

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*, 52, 347-378.

Guignet, Dennis, Robin Jenkins, James Belke, and Henry Mason (2023), "[The Property Value Impacts of Industrial Chemical Accidents](#)," *Journal of Environmental Economics and Management*, 120, 102839.

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.

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.

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.

PUBLICATIONS (cont.):

- 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.
- 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.

PUBLICATIONS (cont.):

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.

SELECT WORKING PAPERS:

Guignet, Dennis, Robin R. Jenkins, Ian Berry, and Margaret Sugg (2024), "[Disproportionate Environmental Risks: An Analysis of Chemical Facilities and Accidents in the U.S.](#)," US EPA National Center for Environmental Economics Working Paper, 24-08, Washington, DC, October.

Carroll, Anna, Dennis Guignet, O. Ashton Morgan (2024), "[The Effects of Increasing Enrollment on Student Housing Choices and Welfare](#)," Appalachian State University Department of Economics Working Paper, 24-16, Boone, NC, October.

Houston, Adam, Peter A. Groothuis, and Dennis Guignet (2024), "[Competitive Recruiting Imbalances Between NCAA Conferences](#)," Appalachian State University Department of Economics Working Paper, 24-16, Boone, NC, July.

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.

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.

RECENT PRESENTATIONS:

"The Effects of Toxic Air Pollutants on Maternal and Newborn Health: A Study of Underserved Communities in North Carolina," Northeastern Agricultural and Resource Economics Association's Annual Meeting, Rehoboth Beach, DE, June 2024.

"Valuing the Impacts of Hazardous Chemicals on Environmental Endpoints: Challenges and Opportunities," Social Cost of Water Pollution Workshop, Washington, DC, October 2023.

"Sea-level Rise, Groundwater Quality, and the Impacts on Coastal Homeowners," Northeastern Agricultural and Resource Economics Association's Annual Meeting, Annapolis, MD, June 2023.

RECENT PRESENTATIONS (cont.):

- “Layers of Injustice: A Distributional Assessment of Toxic Chemical Facilities, Releases, and Cleanups,” Department of Economics Seminar Series, Appalachian State University, Boone, NC, December 2022.
- “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,” 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.,” Northeastern Agricultural and Resource Economics Association’s Virtual Conference, June 2021.
- “Hazardous Waste and Home Values: A Nationwide Quasi-Experiment of RCRA Sites,” Department of Economics Seminar Series, University of Calgary, Calgary, Canada, April 2021.
- “Hazardous Waste and Home Values: A Nationwide Quasi-Experiment of RCRA Sites,” Center for Health Economics and Policy Studies Seminar Series, San Diego State University, San Diego, CA, March 2021.
- “Quasi-experimental Methods to Value the Cost of Hazardous Releases and Cleanups,” 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,” US Department of “Applications and Potential of Ecosystem Services Valuations within USDA – Advancing the Science” Workshop, Washington, DC, April 2019.

CONSULTING:

- Organisation for Economic Co-operation and Development (OECD), France (2021-2024)
- Earthjustice, United States (2023)
- Landcare Research, New Zealand (2018-2019)

SELECT AWARDS:

Sywassink Award for Excellence in Research, Walker College of Business, Appalachian State University (2024)
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)
Award for Excellence and Innovation in Undergraduate Teaching in the Marquee Courses in Science and Technology, University of Maryland (2011)
Eagle Scout, Boy Scouts of America (2001)

SELECT REFEREE EXPERIENCE:

Agricultural and Resource Economics Review (2022, 2019, 2015), *Ecological Economics* (2013), *Economics* (2017), *Energy Economics* (2024, 2021), *Environmental and Resource Economics* (2023, 2022, 2021, 2014), *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* (2024, 2023, 2022, 2020, 2019, 2018, 2017, 2014, 2011, 2010), *Journal of Housing Economics* (2020), *Journal of Political Economy Microeconomics* (2024), *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* (2024, 2011), *Resource and Energy Economics* (2019, 2018, 2015, 2014), *Science of the Total Environment* (2018), *Sustainability* (2017, 2015), *Water Economics and Policy* (2015).

SELECT PROFESSIONAL SERVICE:

Committee Member: Career Advancement and Mentorship (CAM) Program Committee, Northeastern Agricultural and Resource Economics Association, 2024-2027.
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.

SELECT PROFESSIONAL SERVICE (cont.):

Panel Review Member: US Environmental Protection Agency, 2022.

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

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.

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

PROFESSIONAL ORGANIZATIONS:

Northeast Agricultural and Resource Economics Association

Association of Environmental and Resource Economists

COMPUTER SKILLS: ArcGIS Pro, Stata, R