
REBECCA J. DAVIS

Contact

Assistant Professor

Department of Economics & Finance

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Research Interests

Energy Economics, Environmental Economics, Natural Resource Economics

Focus: Market structure, risk and uncertainty, optimal control theory, real options analysis, applied econometrics, management of natural resources, public policy

Education

May 2018 *Ph.D., Economics*, The University of Tennessee

Dec. 2013 *M.A., Economics*, The University of Tennessee

Dec. 2011 *B.S., Economics*, West Virginia Wesleyan College

Academic & Teaching Experience

2013-2018 *Graduate Research Assistant* - Howard H. Baker Jr. Center for Public Policy, Matthew Murray & Charles Sims, University of Tennessee

Primary Instructor (Sole Responsibility for Course)

Eco 232 “Principles of Microeconomics,” Fall 2018, 1 Section, Stephen F. Austin State University

Eco 339 “Applied Statistical Analysis,” Fall 2018, 2 Sections, Stephen F. Austin State University

Econ 311 “Intermediate Microeconomics,” Sum. 2016, 1 Section, University of Tennessee

Econ 313 “Intermediate Macroeconomics,” Sum. 2015, 1 Section, University of Tennessee

Graduate Teaching Assistant

Buad 551 “Executive Core I,” Fall 2015-2017, University of Tennessee, Grading: Macroeconomics for Managers Group Assignment, Jean Gauger

Econ 511 “Microeconomic Theory,” Fall 2013, University of Tennessee

Econ 201 “Introductory Economics” (Micro/Macro), Fall 2012 & Spr. 2013, University of Tennessee

Guest Lecture

Econ 677 “Environmental and Natural Resource Economics,” Fall 2017, University of Tennessee

Econ 362 “Environmental and Natural Resource Policy”, Fall 2014, University of Tennessee

Awards and Fellowships

- 2016-Present *National Bureau of Economic Research Pre-Doctoral Fellowship Program on Energy Economics*, Alfred P. Sloan Foundation
- 2014-2015 *Charles B. Garrison Award for Best Graduate Assistant*, University of Tennessee
- 2014-2015 *Charles B. Garrison Award for Excellence in Teaching*, University of Tennessee
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Papers

Working Papers

- “Abate or Exit? The Impact of Mercury Regulation on Coal Generator Retirements.”
- “Drivers of Coal Generator Retirements and their Impact on the Shifting Electricity Generation Portfolio in the U.S.” (JMP) with Charles Sims and J. Scott Holladay.
- “Frack to the Future: What Enticed Small Firm Entry during the Hydraulic Fracturing Boom?” with Charles Sims.

Works in Progress

- “Land Speculation and the Shale Gas Boom: The Option Value of Drilling Rights” with data from DrillingInfo.
 - “The Effects of Confirmation Bias and Subgroup Bias in Hiring Decisions” with Jing Li, Matthew McMahon, and Nathan Murray.
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White Papers, Reports, and Trade Publications

- 2017 “The Economic Impacts and Risks Associated with Electric Power Generation in Appalachia” with Eric Bowen, Christiadi, John Deskins, and Charles Sims, Commissioned by the *Appalachian Regional Commission*
- 2017 “How Much Should Hybrids and Electric Vehicles Contribute to Roadway Funding?” with Matthew N. Murray and Jilleah G. Welch. *Howard H. Baker Jr. Center for Public Policy Policy Brief 1:17*.
- 2016 “Energy Intensity and Electricity Consumption” with J. Scott Holladay. *Howard H. Baker Jr. Center for Public Policy Policy Brief 2:16*.
- 2015 “Economic Potential of South Knoxville’s Urban Wilderness” with Charles Sims and Bongkyun Kim. *Howard H. Baker Jr. Center for Public Policy White Paper 2:15*.
- 2015 “Coal Mining and Tourism: Engines of Economic Development for Campbell County and Claiborne County, Tennessee” with Matthew N. Murray, Charles Sims, and Bongkyun Kim. *Howard H. Baker Jr. Center for Public Policy Project Report 4:14*.
- 2015 “Tennessee Advanced Energy Economic Impact Report” with Matthew N. Murray and Tennessee Advanced Energy Business Council *Tennessee Advanced Energy Business Council*.
- 2014 “Economic Impacts on Tennessee Arising from Construction of the Uranium Processing Facility” with Matthew N. Murray. *Howard H. Baker Jr. Center for Public Policy Project Report 3:14*.

2014 “Energy Data Collection and Performance Calculation Project” with Jean H. Peretz, Catherine Wilt, and Matthew N. Murray. *Howard H. Baker Jr. Center for Public Policy Project Report 1:14*.

Conference Presentations

- Aug. 2017 “Drivers of Coal Generator Retirements and their Impact on the Shifting Electricity Generation Portfolio in the U.S.”
Camp Resources XXIV, Wrightsville Beach, NC.
- June 2017 “Drivers of Coal Generator Retirements and their Impact on the Shifting Electricity Generation Portfolio in the U.S.”
2017 Association of Environmental and Resource Economists Annual Summer Conference, Pittsburgh, PA.
- Nov. 2016 “The Impact of Environmental Policy Instruments and Fuel Price Uncertainty on the Shifting Electricity Generation Portfolio in the U.S.”
86th Annual Meeting of the Southern Economic Association, Washington, DC.
- Nov. 2016 “To Frack or Not to Frack: Option Value Analysis on the U.S. Natural Gas Market”
Heartland Environmental & Resource Economics Workshop at Illinois, Urbana-Champaign, IL.
- July 2016 “To Frack or Not to Frack: Option Value Analysis on the U.S. Natural Gas Market”
Agricultural & Applied Economics Association 2016 Annual Meeting, Boston, MA.
- Nov. 2014 “To Frack or Not to Frack: Option Value Analysis”
84th Annual Meeting of the Southern Economic Association, Atlanta, GA.
- June 2014 “To Frack or Not to Frack: Option Value Analysis”
Western Agricultural Economics Association 2014 Annual Meeting, Colorado Springs, CO
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Other Presentations

- Sept. 2016 “To Frack or Not to Frack: Option Value Analysis on the U.S. Natural Gas Market”
University of Tennessee Brown Bag Workshop, Knoxville, TN
- Oct. 2015 “Fracking: Economics and Policy Impact”
Howard H. Baker Jr. Center for Public Policy Baker Café, Knoxville, TN
- Apr. 2014 “The Effects of Confirmation Bias and Subgroup Bias in Hiring Decisions”
University of Tennessee Brown Bag Workshop, Knoxville, TN
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Proficiencies

Matlab, Stata, z-Tree, LaTeX, Maple, MS Office
Economic Impact Analysis: Input-Output Modeling

Professional Affiliations

American Economic Association, Agricultural & Applied Economics Association, Association of Environmental and Resource Economists, Southern Economic Association
