

# Jason P. Brown

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## Education

Ph.D. Agricultural Economics, Purdue University, 2009.

*Dissertation:* Spatial Dynamics of Capital Formation in U.S. Manufacturing

M.S. Agricultural Economics, Purdue University, 2006.

*Thesis:* Methodology for Determining the Economic Feasibility of Controlled Drainage in the Eastern Corn Belt

B.S. Agricultural Systems Management, Purdue University, 2001.

## Employment

### *Federal Reserve Bank of Kansas City*

Research and Policy Officer, Economic Research, September 2018 to present.

Assistant Vice President and Economist, Regional Affairs, August 2017 to August 2018.

Senior Economist and Regional Executive, Regional Affairs, July 2016 to July 2017.

Senior Economist, Regional Affairs, October 2014 to June 2016.

Economist, Regional Affairs, January 2013 to September 2014.

### *United States Department of Agriculture, Economic Research Service*

Economist, Resource and Rural Economics Division, December 2009 - January 2013.

### *Purdue University, Department of Agricultural Economics*

USDA National Needs Fellow, 2006 - 2009.

Research Assistant, 2004 - 2006.

### *Cargill AgHorizons*

Farm Service Center Manager, Winamac, IN, 2003 - 2004.

Production Supervisor, Burns Harbor, IN, 2002 - 2003.

## Publications

### *Refereed Publications*

“Response of Consumer Debt to Income Shocks: The Case of Energy Booms and Busts” *Journal of Money, Credit and Banking*, forthcoming.

“Spatially variable taxation and resource extraction: The impact of state oil taxes on drilling in the US” with Peter Maniloff and Dale T. Manning, *Journal of Environmental Economics and Management*, 2020, 103:102354.

- “Does Resource Ownership Matter? Oil and Gas Royalties and the Income Effect of Extraction” with Timothy Fitzgerald and Jeremy G. Weber, *Journal of the Association of Environmental and Resource Economists*, 2019, 6(6): 853-878.
- “The Effect of the Conservation Reserve Program on Rural Economies: Deriving a Statistical Verdict from a Null Finding” with Dayton M. Lambert and Timothy Wojan, *American Journal of Agricultural Economics*, 2019, 101(2): 528-540.
- “Manufacturing Plant Survival in a Period of Decline” with Sarah A. Low, *Growth and Change*, 2017, 48(3): 297–312.
- “Capturing Rents from Natural Resource Abundance: Private Royalties from U.S. Onshore Oil & Gas Production” with Timothy Fitzgerald and Jeremy G. Weber, *Resource and Energy Economics*, 2016, 46: 23–38.
- “Extending a Smooth Parameter Model to Firm Location Analyses: The Case of Natural Gas Establishments in the United States” with Dayton M. Lambert, *Journal of Regional Science*, 2016, 56(5): 848–867.
- “Crop Prices, Agricultural Revenues, and the Local Economy of the U.S. Heartland” with Jeremy G. Weber, Conor Wall and Tom Hertz, *Applied Economic Perspectives and Policy*, 2015, 37(3): 459-476.
- “Spatial Hedonic Analysis of the Effects of Wind Energy Facilities on Surrounding Property Values in the United States.” with Ben Hoen, Thomas Jackson, Mark A. Thayer, Ryan Wisser and Peter Cappers, *Journal of Real Estate Finance and Economics*, 2015, 51(1): 22-51.
- “What to Do About the ‘Cult of Statistical Significance?’ A Renewable Fuel Application using the Neyman-Pearson Protocol” with Timothy Wojan and Dayton Lambert, *Applied Economic Perspectives and Policy*, 2015, 36(4): 674-695.
- “Linkages between Community-Focused Agriculture, Farm Sales, and Regional Growth” with Stephan J. Goetz, Mary C. Ahearn and Chyi-lyi Liang, *Economic Development Quarterly*, 2014, 28(1): 5-16.
- “Sustainable Rural Development and Wealth Creation: Five Observations Based on Emerging Energy Opportunities” with John L. Pender and Jeremy G. Weber, *Economic Development Quarterly*, 2014, 28(1): 73-86.
- “The Birth, Death, and Persistence of Firms: Creative Destruction and the Spatial Distribution of U.S. Manufacturing Establishments, 2000-2006” with Dayton M. Lambert and Raymond J.G.M. Florax, *Economic Geography*, 2013, 89(3): 203-226.
- “Ex Post Analysis of Economic Impacts from Wind Power Development in U.S. Counties” with John L. Pender, Ryan Wisser, Eric Lantz and Ben Hoen, *Energy Economics*, 2012, 34(6): 1743-1754.
- “The Impact of Drainage Water Management Technology on Corn Yields” with Benoit Delbecq, Raymond J.G.M. Florax, Eileen J Kladvko, Adela P Nistor and Jess M Lowenberg-DeBoer, *Agronomy Journal*, 2012, 104(4): 1100-1109.
- “Two-step Estimator for a Spatial Lag Model of Counts: Theory, Small Sample Performance and an Application” with Dayton M. Lambert and Raymond J.G.M. Florax, *Regional Science and Urban Economics*, 2010, 40(4): 241-252.
- “Determinants of Investment Flows in U.S. Manufacturing Investment” with Raymond J.G.M. Florax and Kevin T. McNamara, *The Review of Regional Studies*, 2009, 39(3): 267-284.
- “Consumer Behavior and Country of Origin Labeling” with Jayson L. Lusk, Tyler Mark, Idir Proseku, Rachel Thompson and Jody Welsh, *Applied Economic Perspectives and Policy*, 2006, 28(2): 284-292.

### *Book Chapters*

- “Rural Wealth Creation and Emerging Energy Industries” with Jeremy G. Weber and John L. Pender, 2014 In: *Rural Wealth Creation*, Pender, J.L., Weber, B.A., Johnson, T.G. and Fannin, J.M. (eds.) Routledge, pg. 167-184.

*Working Papers*

“Death of Coal and Breath of Life: The Effect of Power Plant Closure on Local Air Quality” with Colton Tousey, Federal Reserve Bank of Kansas City, Research Working Paper 20-15.

“Rising Market Concentration and the Decline of Food Price Shock Pass-Through to Core Inflation” with Colton Tousey, Federal Reserve Bank of Kansas City, Research Working Paper 19-02.

“Effects of State Taxation on Investment: Evidence from the Oil Industry” with Peter Maniloff and Dale Manning, Federal Reserve Bank of Kansas City, Research Working Paper 18-07.

“Effects of the Conservation Reserve Program on Rural Economies: Deriving a Statistical Verdict from a Null Finding” with Dayton Lambert and Timothy Wojan, Federal Reserve Bank of Kansas City, Research Working Paper 18-04.

“Response of Consumer Debt to Income Shocks: The Case of Energy Booms and Busts” Federal Reserve Bank of Kansas City, Research Working Paper 17-05.

“Does Resource Ownership Matter? Oil and Gas Royalties and the Income Effect of Extraction” with Timothy Fitzgerald and Jeremy G. Weber, Federal Reserve Bank of Kansas City, Research Working Paper 16-12.

“Capturing Rents from Natural Resource Abundance: Private Royalties from U.S. Onshore Oil & Gas Production” with Timothy Fitzgerald and Jeremy G. Weber, Federal Reserve Bank of Kansas City, Research Working Paper 15-04.

“Location Decisions of Natural Gas Extraction Establishments: A Smooth Transition Count Model Approach” with Dayton M. Lambert, Federal Reserve Bank of Kansas City, Research Working Paper 14-05.

“A Spatial Hedonic Analysis of the Effects of Wind Energy Facilities on Surrounding Property Values in the United States” with Ben Hoen, Thomas Jackson, Ryan Wisler, Mark Thayer and Peter Cappers, 2013, Lawrence Berkeley National Laboratory, Environmental Energy Technologies Division, LBNL-6362E.

“Rural Wealth Creation and Emerging Industries: Lease and Royalty Payments to Farm Households and Businesses” with Jeremy Weber and John Pender, Federal Reserve Bank of Kansas City, Research Working Paper 13-07.

“Two-step Estimator for a Spatial Lag Model of Counts: Theory, Small Sample Performance and an Application” with Dayton Lambert and Raymond J.G.M. Florax, Working Paper 10-5. Department of Agricultural Economics, Purdue University.

“Determinants of Investment Flows in U.S. Manufacturing” with Raymond J.G.M. Florax and Kevin T. McNamara, Working Paper 09-10. Department of Agricultural Economics, Purdue University.

“Spatiotemporal Modeling of Agricultural Yield Monitor Data” with Adela Nistor, Raymond J.G.M. Florax and Jess Lowenberg-DeBoer, Working Paper 08-01. Department of Agricultural Economics, Purdue University.

*Bank Publications*

COVID-19 Stuns U.S. and Tenth District Economies, but Both Show Signs of Stabilization, with Alison Felix, June 2020, *Economic Bulletin*.

Population Turnover and the Growth of Urban Areas, 2020, *Economic Review* 105(1).

Drilling Productivity in the United States: What Lies Beneath, with David Rodziewicz and Colton Tousey, May 2019, *Economic Bulletin*.

The Widening Divide in Business Turnover between Large and Small Urban Areas, 2018, *Economic Review* 103(3).

Auto Loan Delinquency Rates Are Rising, but Mostly among Subprime Borrowers, with Colton Tousey, *Macro Bulletin*.

Identifying State-Level Recessions, 2017, *Economic Review* 102(1).

The Reallocation of Energy-Sector Workers after Oil Price Booms and Busts, with Andres Kodaka *Macro Bulletin*.

The Response of Employment to Changes in Oil and Gas Exploration and Drilling, 2015, *Economic Review* 100(2).

U.S. Electricity Prices in the Wake of Growing Natural Gas Production, with Andres Kodaka, 2014, *Main Street Economist*, Issue 2.

Production of Natural Gas from Shale in Local Economies: A Resource Blessing or Curse?, 2014, *Economic Review* 99(1).

The Cycles of Wind Power Development, 2013, *Main Street Economist*, Issue 3.

### *Other Publications*

Brown, J.P., Weber, J.G., and Wojan, T. 2013. Emerging Energy Industries and Rural Growth. ERR-159, USDA Economic Research Service, Washington DC.

Brown, J.P. and Weber, J.G. 2013. The Off-farm Occupations of U.S. Farm Operators and their Spouses. EIB-117, USDA Economic Research Service, Washington DC.

### Research Presentations

Death of Coal and Breath of Life: The Effect of Power Plant Closure on Local Air Quality

AAEA 2020 Virtual Meeting.

AERE 2020 Virtual Meeting.

Effects of State Taxation on Investment: Evidence from the Oil Industry.

64th Annual North American Meetings of the Regional Science Association International, Vancouver, CA.

World Congress of Environmental and Resource Economists, Gothenburg, Sweden.

Response of Consumer Debt to Income Shocks: The Case of Energy Booms and Busts.

63rd Annual North American Meetings of the Regional Science Association International, Minneapolis, MN.

System Energy Meeting of the Federal Reserve System, Houston, TX.

Colorado State University, Economics Department.

56th Annual Meeting of Southern Regional Science Association, Memphis, TN.

AERE 6th Annual Summer Conference, Pittsburgh, PA.

Iowa State University, Economics Department.

2018 ASSA Annual Meeting, Philadelphia, PA.

Asset Ownership, Windfalls, and Income: Evidence from Oil and Gas Royalties.

2017 ASSA Annual Meeting, Chicago, IL.

AERE 6th Annual Summer Conference, Pittsburgh, PA.

Regional Windfalls or Beverly Hillbillies? Local and Absentee Ownership of Oil and Gas Royalties.

62nd Annual North American Meetings of the Regional Science Association International, Portland, OR, Nov 12-14, 2015.

55th Annual Meeting of Southern Regional Science Association, Washington DC.

AERE 5th Annual Summer Conference, Breckenridge, CO.

Capturing Rents from Natural Resource Abundance: Private Royalties from U.S. Onshore Oil & Gas

## Production.

System Committee on Regional Analysis, Federal Reserve System. San Antonio, TX. Nov 5, 2014.

61st Annual North American Meetings of the Regional Science Association International, Washington D.C., November 12-15, 2014.

54th Southern Regional Science Association Annual Meeting, Mobile, AL March 26-28, 2015.

University of Oklahoma, Economics Department. April 17, 2015.

## Location Decisions of Natural Gas Extraction Establishments: A Smooth Transition Count Model Approach.

60th Annual North American Meetings of the Regional Science Association International, Atlanta, GA, November 13-16, 2013.

Federal Reserve Bank of Chicago, March 17, 2014.

53rd Southern Regional Science Association Annual Meeting, San Antonio, TX March 27-29, 2014.

## Crop Prices, Agricultural Revenues, and the Local Economy of the U.S. Heartland. Selected Paper AAEA 2013 Annual Meeting, Washington, DC, August 4-6.

Linkages between Community Focused Agriculture, Farm Sales, and Regional Growth. 59th Annual North American Meetings of the Regional Science Association International, Ottawa, Canada, November 7-10.

Measuring Ex Post Economic Effects: Lessons from Emerging Energy Industries. Post Conference Workshop: Models for Assessing Regional Economic Impacts of Agriculture and Rural Development Efforts. AAEA Annual Meetings, Seattle, WA August 15.

Ex Post Analysis of Economic Impacts from Wind Power Development in U.S. Counties. 58th Annual North American Meetings of the Regional Science Association International, Miami, FL, November 10-12.

The Impacts of Changes in Local Industrial Composition on Off-Farm Labor Supply. Selected paper at 2011 AAEA & NAREA Joint Annual Meeting, Pittsburgh, PA, July 24-26.

Economic Impacts of Wind Turbine Development in U.S. Counties. Selected poster at 2011 AAEA & NAREA Joint Annual Meeting, Pittsburgh, PA, July 24-26.

Factors Influencing Manufacturing Establishment Transitions Into and Out-of Local Economies: A Markov Chain Entropy Approach. 57th Annual North American Meetings of the Regional Science Association International, Denver, CO.

## Manufacturing Transition in Local Economies: A Regional Adjustment Model.

49th Southern Regional Science Association Annual Meeting, Washington, D.C.

2010 Annual Meetings of the Agricultural and Applied Economics Association, Denver, CO.

Firm Birth and Death in U.S. Manufacturing: A Regional Adjustment Model. 2009 Annual Meetings of the Agricultural and Applied Economics Association, Milwaukee, WI.

Short-run Birth and Death of U.S. Manufacturing Firms: 2000 - 2005. 2009 Annual Meetings of the Southern Agricultural Economics Association, Atlanta, GA.

Location Choice of U.S. Manufacturing Investments. 55th Annual North American Meetings of the Regional Science Association International, Brooklyn, NY.

## Evolution of Investment Flows in U.S. Manufacturing: A Spatial Panel Approach. Presented at:

Space, Health, and Population Economics Student Summit, Hosted at Purdue University.

48th Congress of the European Regional Science Association, Liverpool, UK.

45th Annual Meeting of the Missouri Valley Economic Association, St. Louis, MO.

State Tax Credits Impact on Job Growth: An Analysis of Indiana's Economic Development for a Growing Economy Credits. 54th Annual North American Meetings of the Regional Science Association International, Savannah, GA.

Regional Development Policy in Perspective: An International Comparison for Selected Cases in the U.S. and E.U. 53rd Annual North American Meetings of the Regional Science Association International, Toronto, CAN.

## Professional Activities

Council Member At-Large, North American Regional Science Council, 2019–2021.

Associate Editor: *Journal of Regional Science*, 2018–present.

Editorial Board Member: *The Review of Regional Studies*, 2017–present.

Chair & Vice Chair, Community Economics Network, Agricultural and Applied Economics Association, 2010–2012.

Member, American Economics Association, 2013–present.

Member, Association of Environmental and Resource Economists, 2016–Present.

Member, Regional Science Association International, 2006–Present.

Member, Southern Regional Science Association, 2008–Present.

Referee for:

*Agricultural Economics, American Journal of Agricultural Economics, Applied Economic Perspectives & Policy, Contemporary Economic Policy, Eastern Economic Journal, Ecological Economics, Economic Geography, Economic Letters, Energy Economics, Energy Policy, Geographical Analysis, International Regional Science Review, Journal of Agricultural and Applied Economics, Journal of Business and Economics, Journal of Policy Analysis and Management, Journal of Regional Science, Journal of Small Business Management, Letters in Spatial and Resource Sciences, Papers in Regional Science, Regional Science Policy and Practice, Regional Science and Urban Economics, Regional Studies, Resource and Energy Economics, Review of Regional Studies, Southern Economics Journal*

## Honors, Awards, & Fellowships

Outstanding Ph.D. Dissertation Award, Dept. of Agricultural Economics, Purdue University, 2009

USDA National Needs Fellow, 2006 - 2009

Gamma Sigma Delta Honor Society, 2006

Phi Kappa Phi Honor Society, 2006

Alpha Mu Honor Society, 2001

## Software

R, ArcGIS, Stata, L<sup>A</sup>T<sub>E</sub>X