

## Jason Scott Bergtold

### Work:

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## EDUCATION

### Ph.D. Economics, 2004, Virginia Tech, Blacksburg, VA

Dissertation: *Advances in Applied Econometrics: Binary Discrete Choice Models, Artificial Neural Networks and Asymmetries in the FAST Multistage Demand System* (Advisors: Daniel B. Taylor and Aris Spanos).  
AAEA Outstanding Doctoral Dissertation, 2005.

Concentrations: Applied Econometrics, Operations Research, and  
Environmental and Natural Resource Economics

### M.S. Agricultural and Applied Economics, 2001, Virginia Tech, Blacksburg, VA.

Thesis: *Projected Economic Impacts of the New Partnership Agreement Between the EU and ACP States on the Senegalese Groundnut Sector*  
(Advisor: George W. Norton).

### B.A. Economics, 1999, Colorado State University, Fort Collins, CO.

## EXPERIENCE

**Associate Professor**, Department of Agricultural Economics, Kansas State University, Manhattan, KS. July 2012 to Present.

**Assistant Professor**, Department of Agricultural Economics, Kansas State University, Manhattan, KS. December 2007 to July 2012.

**Agricultural Economist**, National Soil Dynamics Laboratory, Agricultural Research Service, U.S. Department of Agriculture, Auburn, AL. June 2004 to December 2007.

**Affiliate Assistant Professor**, Department of Agricultural Economics and Rural Sociology, Auburn University, Auburn, AL. June 2004 to December 2007.

**Graduate Research Assistant**, Department of Agricultural and Applied Economics, Virginia Tech, Blacksburg, VA. May 2002 to June, 2004.

**Graduate Teaching Assistant**, Department of Agricultural and Applied Economics, Virginia Tech, Blacksburg, VA. Spring Semesters, 2002 and 2004.

**Instructor**, Department of Economics, Virginia Tech, Blacksburg, VA. Fall Semester, 2001 and Spring Semester 2003.

**Graduate Research Assistant**, Office of International Research and Development, Virginia Tech, Blacksburg, VA. August 1999 to August 2001.

### **OTHER PROFESSIONAL EXPERIENCE**

Associate Editor, *Agronomy Journal*, 2008 to 2013  
Screening Editor, *Agronomy Journal*, 2010 to 2011  
Editor, Conservation Tillage Systems Production Guide Working Group, 2008 to Present  
Editor-In-Chief for a conservation tillage systems production guide for the Southeast, entitled, "Conservation Tillage Systems: Production, Profitability and Stewardship." Expected date of completion is Winter 2015.  
Advisor to the Steering Committee, Conservation Agriculture Systems Alliance, Conservation Tillage Information Center, 2007 to Present  
Team Conservation Tillage, Economics Booth, Sunbelt Ag Expo at Moultrie, GA, 2005 to 2007  
AAEA Selected Paper Reviewer, Productivity Analysis and Emerging Technologies Section and Econometrics Section, 2010-2012, 2015  
Referee, *American Journal of Agricultural Economics*, *Agricultural Economics*; *Australian Journal of Agricultural and Resource Economics*; *Bioenergy Research*; *Biomass and Bioenergy*; *Ecological Economics*; *Energy Economics*; *Forage and Grazing Lands Journal*; *Journal of Agricultural and Applied Economics*; *Journal of Agricultural and Resource Economics*; *Journal of Cooperatives*; *Journal of Economics*; *Journal of Environmental Quality*; *Journal of Natural Resources Policy Research*; *Journal of Soil and Water Conservation*; *Renewable Agriculture and Food Systems*; *Soil and Tillage Research*

### **HONORS AND DISTINCTIONS**

Presidential Teaching Award, Kansas State University, 2014  
Outstanding Teaching Award, Gamma Sigma Delta, Kansas State University, 2013  
USDA Certificate of Merit, 2005 to 2007  
Merit Award, Soil and Water Conservation Society, 2006  
To Team Conservation Tillage (of which I was a member) "for advocating the conservation of soil, water and related natural resources."  
Award for Distinguished Service, Alabama Soil and Water Conservation Society, 2006  
To the Conservation Systems Research Team (of which I was a member), USDA-ARS in Auburn, AL "for significant contributions in the adoption of conservation tillage in Alabama."  
AAEA Outstanding Doctoral Dissertation, 2005  
AAEA Travel Grant, 2003  
The Honor Society of Phi Kappa Phi, Virginia Polytechnic Institute and State University, December 2002.  
President, AAEC/ECON Graduate Student Assembly, 2000-2001  
Omicron Delta Epsilon, Delta Chapter, Colorado State University, December 1999

### **PROFESSIONAL AFFILIATIONS**

American Agricultural Economics Association  
American Economics Association  
American Society of Agronomy  
Conservation Agriculture Systems Alliance

Gamma Sigma Delta, Honor Society for Agriculture  
Missouri Valley Economics Association  
Phi Kappa Phi Honor Society  
Soil and Water Conservation Society  
Southern Economics Association  
Southern Agricultural Economics Association  
Western Agricultural Economics Association

### **ADMINISTRATIVE AND SERVICE**

Agricultural Economics Qualifying Examination Committee, Department of Agricultural Economics, Kansas State University, 2011 to 2012.  
Academic Standards Committee, Committee Member, College of Agriculture, Kansas State University, 2010 to Present.  
Graduate Committee, Committee Member, Department of Agricultural Economics, Kansas State University, 2008 to Present.  
Undergraduate Curriculum Review Committee, Committee Member, Department of Agricultural Economics, Kansas State University, 2010 to 2011.  
Served on the search committees for an Assistant Professor position in Agricultural Economics (2010,2012,2014) and for Department Head (2008-09), Department of Agricultural Economics, Kansas State University.

### **ADDITIONAL TRAINING AND SKILLS**

AAEA Conference Workshop: "Discrete Choice Methods." 2007 Annual Meetings of the American Agricultural Economics Association, Portland, OR. August 1, 2007.

AAEA Conference Workshop: "Fundamentals of Spatial Economics." 2007 Annual Meetings of the American Agricultural Economics Association, Portland, OR. July 28, 2007.

WinEpic Training Workshop, Texas A&M Blackland Research Center, Temple, TX. March 26-30, 2007.

Mathworks Training Seminar: "Advanced MATLAB Programming Techniques." The Mathworks, Washington D.C. September 13, 2006.

Mathworks Training Seminar: "Deploying MATLAB Based Applications." The Mathworks, Washington D.C. September 14, 2006.

Professional Development Workshop: "Transitioning From Hands-On to Minds-On." The Professional Development Group, Texas A&M University, College Station, TX. April 4-8, 2005.

Simetar Training Workshop: "Simulation and Risk Analysis." Agricultural and Food Policy Center in the Department of Agricultural Economics at Texas A&M, at the 2004 Annual Meetings of the American Agricultural Economics Association, Denver, CO. August 4, 2004.

GAMS Programming Workshop: Complementarity Modeling in Economics, Boulder, CO. Instructors: R.W. Cottle and T.F. Rutherford. March 28-31, 2000.

Operations Research, Statistical Software and Programming Languages: C, EPIC, GAMS, GAUSS, MATLAB, SAS, SIMETAR, SPSS, STATA and @RISK.

## OTHER ACTIVITIES

- Red Cross, CPR Instructor, 2007 to 2010, Certified instructor for CPR/AED/First Aid lay responder course for adults, children and infants.
- Civitan Club of Auburn, 2004 to 2008, A nonprofit civic organization that raises monies for disabled and mentally handicapped children and provides civic programs, such as bicycle safety, for the community in Auburn, AL. Served as Director 1, Treasurer, President-Elect and President.
- Phoenix Outreach Partnership, Executive Director (2004 to 2009) and Grant Coordinator (2009 to 2011). This is a nonprofit organization providing food delivery and distribution services in Virginia.
- The Umbono Project, Volunteer, 2004 to 2013, An international nonprofit organization that helps revitalize and rebuild communities devastated by the HIV/AIDS pandemic in southern Africa. Help with strategic planning and budgeting.

## TEACHING ACTIVITIES

### Kansas State University

- AGEC120 **Agricultural Economics and Agribusiness.** A large (200+ students) Freshman level principles course in agricultural microeconomics and agribusiness, covering basic production and consumer theory, supply and demand, market structures and agricultural trends.  
Years taught: 2009 to Present
- AGEC501 **Data Analysis and Optimization.** A medium size (40 to 70 students) junior level class introducing students to linear programming, nonlinear programming, applied integer programming, descriptive statistics, linear regression and time series statistics.  
Years taught: 2013 to Present
- AGEC712 **Optimization Techniques for Agricultural Economics.** A Masters level course introducing students to quantitative techniques in operations research and management science, including linear programming, nonlinear programming, integer programming, network modeling, and applied problem-solving.  
Years taught: 2008 to Present
- AGEC750C/955B **Discrete Choice Methods and Applications:** A PHD field course in discrete and state choice methodology. The course examines applied econometric modeling, including binary logit, multinomial models, ordered discrete models, GEV models, mixed logit and other discrete choice methods. In addition, the course examines contingent valuation, stated choice and conjoint analysis methods.

Years taught: 2010, 2012, 2014

AGEC761 **Optimization Techniques for Agribusiness.** A Masters level distance education course for the Master of Agribusiness (MAB) Program. The course introduces students to quantitative techniques in operations research and management science, including linear programming, nonlinear programming, integer programming, network modeling, and applied problem-solving.  
Years taught: 2008 to Present

AGEC936 **Quantitative Topics in Agricultural Economics.** A PhD level course exposing students to recent and relevant developments in agricultural economics and applied econometrics. I am responsible for 25% of the course, covering topics such as econometric model specification issues, misspecification testing and spatial econometrics.  
Years taught: 2008 to Present

### **Auburn University**

ECON8310 **Seminar in Econometrics.** A Ph.D. level course that introduces advanced topics in econometrics. I was responsible for 20% of the course, covering discrete choice modeling techniques.  
Years taught: 2007

### **Virginia Tech**

ECON2005 **Principles of Microeconomics.** A large (130+ students) undergraduate course that introduces students to the principles of microeconomics, including consumer and firm theory, supply and demand analysis, theory of markets, and economic philosophy.  
Years taught: 2001

ECON2006 **Principles of Macroeconomics.** A large (170+ students) undergraduate course that introduces students to the principles of macroeconomics, including supply and demand analysis, international trade, macroeconomic models, money markets, as well as labor and capital markets. This is an undergraduate course with 130+ students.  
Years taught: 2003

## **GRADUATE STUDENT SUPERVISION**

### **Kansas State University**

Noah Miller, M.S. Applied Econometric Methods for Production Economics. Expected Completion: May 2015.

Ana Claudia Sant'Anna, PhD. Land Use Change in the Cerrado of Brazil: Sugar Cane Expansion, Ethanol Production, and Environment. Expected Completion: May 2017.

Steven Ramsey, PhD. Agricultural Land Use, Aquatic Ecosystems and Climate Change. Expected Completion: May 2017.

Graciela Andrango, PhD. Farmer Adoption and Extension for Specialized Oilseed for Renewable Jet Fuel. Expected Completion: December 2013.

Sheng Gong, PhD. Natural Resources/Production/Applied Econometrics, Expected Completion: May 2013.

Brian Lauer, M.S./PhD, Master's thesis examining agricultural land usage with expanding bioenergy markets in Kansas/ PhD Research on bioenergy production and land-use, Expected Completion: May 2012/May 2014.

Elizabeth Canales, PhD, Natural Resource/Conservation/Carbon Markets, Expected Completion: May 2014.

Jason Fewell, PhD, *Essays on Kansas Farmers' Willingness to Adopt Alternative Energy Crops and Conservation Practices*, Completed: May 2013.

Christy Wipperfurth, Masters of Agribusiness. Expected Completion: May 2014.

Sally Long, Masters of Agribusiness. *Evaluation Farm Management Strategy Using Sensitivity and Stochastic Analysis*, Completed: May 2013

Grant Good, Masters of Agribusiness. *Feasibility of Diesel-Electric Hybrid Drives for Combine Harvesters*, Completed: May 2013

Angela Bausch, Masters of Agribusiness. Expected Completion: May 2014.

Aaron Bartholomay, Masters of Agribusiness. *Analysis of Machine Failure Codes and the Impact on Customer Satisfaction*, Completed: May 2013.

Saejin Kim, Masters of Agribusiness. Expected Completion: May 2014.

Kevin Heikes, Masters of Agribusiness, *Online Cash Grain Exchange: Examining Factors Impacting the Level of Webbased Trades and Potential Future Adoption of Mobile Technology*, Completed: May 2010.

Philippe Stefan, Masters of Agribusiness, *The Optimization of Wheat and Wheat Additives Blending at Grands Moulins de Dakar*, Expected Completed: December 2012.

Lucas Maddy, M.S., *Cover Crop Profitability and Viability*, Completed: May 2012.

Committee Member: *PhD* – Krishna Pokharel, Bryon Parman, Alexi Thompson, Sam Funk, Lijia Mo, Elizabeth Yeager, Craig Smith, Nicolas Efrain Quintana Ashwell, Emrah Er, Iddrisu Yahaya, Rulianda Wibowo, Bebonchu Atems (Economics), Vladimir Bejan (Economics), Shu Zhou (Economics), Yunyun Lv (Economics), Moyad Hussain Al Rasasi (Economics), Mohammad Ahmed (Economics); Haydory Akbar Ahmed (Economics), Robert Florence (Agronomy); Oliver Freeman (Agronomy), Anne Rigdon

(Grain Science), Adrian Martinez-Kawas (Grain Science), Kyle Coble (Animal Science), Gabriel Granco (Geography); Howell Gonzales (Biological and Ag Engineering)

*Masters* – Michelle Estes, Jon Brammer, Dustin Shearer, Nathan Clarke, Rebecca Manes, Carly Whorton, Ashley Jones, Beau Furrow, Elizabeth Canales, Cora Newsom, Matthew Pachta, Chris Crosby;

*Master of Agribusiness (MAB)* – Emilie Jensen, Joseph Mosier, Lance Zollinger, Nathan Perry, Paul Pommer, Michael Kempke, Audra Weber, Kaitlin Anderson, Arturo Gonzalez, Christopher Witt, Tyrell Fickenscher, Matt Shekels, John Brasington, Clint Petit, Michael Carmichael, Teresa Zube, Amy Brusk, Tim Ulrich.

## **Auburn University**

Manik Anand, PhD. *Essays on the Profitability of Winter Farming Enterprises*, Completed: December 2010.

Committee Member: Masters – Meredith Tallant, Andre Biscaro.

## **PEER-REVIEWED JOURNAL PUBLICATIONS**

Altman, I. *J.S. Bergtold*, D. Sanders and T. Johnson. "Willingness to Supply Biomass for Bioenergy Production: A Censored Tobit Analysis." *Energy Economics* 47(2015): 1 – 10.

E. Onukwugha, *J. Bergtold* and R. Jain. "A Primer on Marginal Effects – Part II: Health Services Research Applications." *PharmacoEconomics* (2014): Forthcoming. (Published online, doi: 10.1007/s40273-014-0224-0)

E. Onukwugha, *J. Bergtold* and R. Jain. "A Primer on Marginal Effects – Part I: Theory and Formulae." *PharmacoEconomics* 33(2014): 25 – 30. doi: 10.1007/s40273-014-0210-6.

Funk, S. and *J.S. Bergtold*. "Cost Efficiency Changes and Adoption of Biotechnology Enhanced Soybeans in Kansas." *Journal of American Association of Farm Managers and Rural Appraisers* (2014). Available at: <http://www.asfmra.org/wp-content/uploads/2014/06/403-Bergtold.pdf>.

Brown, J.C., E. Hanley, *J.S. Bergtold*, M. Caldas, V. Barve, D. Peterson, R. Callihan, J. Gibson, B. Gray, N. Hendricks, N. Brunsell, K. Dobbs, J. Kastens and D. Earnhart. "Ethanol Plant Location and Intensification vs. Extensification of Corn Cropping in Kansas." *Applied Geography* 53(2014): 141 – 148.

*Bergtold*, J.S., J.E. Fewell and J.R. Williams. "Farmers' Willingness to Produce Alternative Cellulosic Biofuel Feedstocks Under Contract in Kansas Using Stated Choice Experiments." *Bioenergy Research* 7(2014): 876 – 884.

*Bergtold*, J.S. and E. Onukwugha. "The Probabilistic Reduction Approach to Specifying Multinomial Logistic Regression Models in Health Outcomes Research." *Journal of Applied Statistics* 41(2014): 2206 – 2221.

- Caldas, M.M., J.S. Bergtold, J.M. Peterson, R. Graves, D. Earhart, S. Gong, B. Lauer, and J.C. Brown. "Factors Affecting Farmers' Willingness to Grow Alternative Biofuel Feedstocks Across Kansas." *Biomass and Bioenergy* 66(2014): 223 – 231.
- Peterson, J.M., M.M. Caldas, J.S. Bergtold, B.S. Sturm, R.W. Graves, D. Earnhart, E.A. Hanley, and J.C. Brown. "Economic Linkages to Changing Landscapes." *Environmental Management* 53 (2014): 55 – 66.
- Barkley, A., J. Tack, L.L. Nalley, J.S. Bergtold, R. Bowden and A. Fritz. "Weather, Disease, and Wheat Breeding Effects on Kansas Wheat Varietal Yields, 1985 – 2011." *Agronomy Journal* 106(2014): 227 – 235. doi:10.2134/agronj2013.0326. Published Online October 2013.
- Fewell, J.E., M.K. Lynes, J.R. Williams and J.S. Bergtold. "Kansas Farmers' Interest and Preferences for Growing Cellulosic Bioenergy Crops." *Journal of American Association of Farm Managers and Rural Appraisers* (2013): 132 – 153.  
Available at: <http://ageconsearch.umn.edu/bitstream/161493/2/385%20Williams.pdf>.
- Altman, I., J.S. Bergtold, D. Sanders and T. Johnson. "Market Development of Biomass Industries." *Agribusiness: an International Journal* 29(2013): 486 – 496.
- Williams, J.R., M.J. Pacht, K.L. Roozeboom, R.V. Llewelyn, M.M. Claassen and J.S. Bergtold. "Risk Analysis of Tillage and Crop Rotation Alternatives with Winter Wheat." *Journal of Agricultural and Applied Economics* 44(4) (2012): 1 – 16.
- Bergtold, J.S., P.A. Duffy, D. Hite and R.L. Raper. "Demographic and Management Factors Affecting the Adoption and Perceived Yield Benefit of Winter Cover Crops." *Journal of Agricultural and Applied Economics* 44(1)(2012): 99 – 116.
- Odeh, O.O., A.M. Featherstone and J.S. Bergtold. "Reliability of Statistical Software." *American Journal of Agricultural Economics*. 92(5)(2010): 1472 – 1489.
- Bergtold, J.S., A. Spanos and E. Onukwugha. "Bernoulli Regression Models: Revisiting the Specification of Statistical Models with Binary Dependent Variables." *Journal of Choice Modeling*. 3(2010): 1-28.
- Bergtold, J.S. and J.J. Molnar. "Limited Access to Conservation: Limited Resource Farmer Participation in the Conservation Security Program in the Southeast." *Journal of Agricultural and Applied Economics*. 42(2010): 211-227.
- Balkcom, K.S., A.J. Price, E. Van Santen, D.P. Delaney, D.L. Boykin, F.J. Arriaga, J.S. Bergtold, T.S. Kornecki and R.L. Raper. "Row Spacing, Tillage System, and Herbicide Technology Affects Cotton Plant Growth and Yield." *Field Crop Research*. 117(2010): 219-225.
- Kornecki, T.S., A.J. Price, R.L. Raper and J.S. Bergtold. "Effectiveness of Different Herbicide Applicators Mounted on a Roller/Crimper for Accelerated Termination of Rye Cover Crop." *Applied Engineering in Agriculture*. 25(2009): 819-826.



Raper, R.L., E.B. Schwab, J.S. Bergtold, A.J. Price, K.S. Balkcom, F.J. Arriaga and T.S. Kornecki. "Maximizing Cotton Production and Rye Cover Crop Biomass through Timely In-Row Subsoiling." *Applied Engineering in Agriculture*. 25(2009): 321-328.

Kornecki, T.S., R.L. Raper, F.J. Arriaga, E.B. Schwab and J.S. Bergtold. "Impact of Rye Rolling Direction and Different No-Till Row Cleaners on Cotton Emergence and Yield." *Transactions of the ASABE*. 52(2009): 375-381.

Bergtold, J.S., R.L. Raper and E.B. Schwab. "The Economic Benefit of Improving the Proximity of Tillage and Planting Operations in Cotton Production with Automatic Steering." *Applied Engineering in Agriculture*. 25(2009): 133-143.

Raper, R.L. J.S. Bergtold and E.B. Schwab. "Effect of Row Proximity to In-Row Subsoiled Zones on Cotton Productivity." *Applied Engineering in Agriculture*. 24 (2008): 573-579.

Price, A.J., M.E. Stoll, J.S. Bergtold, F.J. Arriaga, K.S. Balkcom. T.S. Kornecki and R.L. Raper. "Effect of Cover Crop Extracts on Cotton and Radish Radicle Elongation." *Communications in Biometry and Crop Science*. 3(2008): 60-66.

Raper, R.L. and J.S. Bergtold. "In-Row Subsoiling: A Review and Suggestions for Reducing Cost of This Conservation Tillage Operation." *Applied Engineering in Agriculture*. 23(2007): 463-471.

Bergtold, J.S., G. Norton and C. Brewster. "Lomé to Cotonou: Trade Policy Alternatives for the Senegalese Groundnut Sector." *Agricultural Economics*. 33(2005): 315-323.

Bergtold, J.S., E. Akobundu and E.B. Peterson. "The FAST Method: Estimating Unconditional Demand Elasticities for Processed Foods in the Presence of Fixed Effects." *Journal of Agricultural and Resource Economics*. 29(2004): 276-295.

### **PEER-REVIEWED BOOK CHAPTERS**

Anand, M. D.W. Archer, J.S. Bergtold and E. Canales. "Balancing Feedstock Economics and Ecosystem Services." In: *Sustainable Feedstocks for Advanced Biofuels: Sustainable Alternative Fuel Feedstock Opportunities Challenges and Roadmaps for six U.S. Regions*. R. Braun, D. Karlen and D. Johnson (eds.). Ankeny, IA: Soil Water Conservation Society, 2011.

### **PEER-REVIEWED PUBLISHED PROCEEDINGS**

K.S. Balkcom, J.S. Bergtold, C.D. Monks, A.J. Price and D.P. Delaney. "Planting and Defoliation Timing Impacts On Cotton Yield and Quality." In: *Beltwide Cotton Conferences 2005-2010 Proceedings*, S. Boyd, M. Huffman and B. Robertson (eds). New Orleans, Louisiana, January 4-7, 2010. Available at: <http://www.cotton.org/beltwide/proceedings/2005-2010/>.

Bergtold, J.S., K.S. Balkcom, F.J. Arriaga, T.S. Kornecki, A.J. Price and R.L. Raper. "Conservation Tillage, Irrigation and Variety Selection on Cotton Quality Premiums, Discounts and Profitability: Evidence from the Gin." In: *Proceedings of the 30th Southern*

*Conservation Agricultural Systems Conference and 8th Annual Georgia Conservation Production Systems Training Conference*, D.M. Endale (ed.) Tifton, Georgia, July 29-31, 2008. Available at: <http://www.ag.auburn.edu/auxiliary/nsdl/scasc/>.

Balkcom, K.S., F.J. Arriaga, C.C. Mitchell, Jr., D.P. Delaney and J.S. Bergtold. "Nitrogen Fertilizer: Timing, Source and Rate for a Winter Cereal Cover Crop." In: *Proceedings of the 30th Southern Conservation Agricultural Systems Conference and 8th Annual Georgia Conservation Production Systems Training Conference*, D.M. Endale (ed.) Tifton, Georgia, July 29-31, 2008. Available at: <http://www.ag.auburn.edu/auxiliary/nsdl/scasc/>.

Saini, M., A.J. Price, K.S. Balkcom, E. VanSanten, J.S. Bergtold and T.S. Kornecki. "Effects of Different Winter Cover Crops on Conservation Tillage Tomato Quality and Yield." In: *Proceedings of the 30th Southern Conservation Agricultural Systems Conference and 8th Annual Georgia Conservation Production Systems Training Conference*, D.M. Endale (ed.) Tifton, Georgia, July 29-31, 2008. Available at: <http://www.ag.auburn.edu/auxiliary/nsdl/scasc/>.

R.L. Raper, E.B. Schwab, J.S. Bergtold, A.J. Price, K.S. Balkcom, F.J. Arriaga and T.S. Kornecki. "Maximizing Cotton Production and Rye Cover Crop Biomass Through Timely In-Row Subsoiling." In: *Proceedings of the 30th Southern Conservation Agricultural Systems Conference and 8th Annual Georgia Conservation Production Systems Training Conference*, D.M. Endale (ed.) Tifton, Georgia, July 29-31, 2008. Available at: <http://www.ag.auburn.edu/auxiliary/nsdl/scasc/>.

Price, A.J. F.J. Arriaga, K.S. Balkcom, J.S. Bergtold, T.S. Kornecki and R.L. Raper. "Tillage System and Cereal Rye Residue Affects Pigweed Establishment and Competitiveness in Cotton." In: *Proceedings of the National Cotton Council Beltwide Cotton Conference*, Boyd, S., et al. (eds.), Nashville, TN, January 8-11, 2008.: 1703-1705.

Arriaga, F.J., R.L. Raper, K.S. Balkcom, T.S. Kornecki, A.J. Price and J.S. Bergtold. "Benefits of Alternating the Shank Location on a Bent-Leg Strip-Till." In: *Proceedings of the National Cotton Council Beltwide Cotton Conference*, Boyd, S., et al. (eds.), Nashville, TN, January 8-11, 2008.: 1608-1611.

Balkcom, K.S., F.J. Arriaga, J.S. Bergtold, C.C. Mitchell and D.P. Delaney. "Nitrogen Fertilizer for Conservation Tillage Cotton: Source, Rates, and Timing." In: *Proceedings of the National Cotton Council Beltwide Cotton Conference*, Boyd, S., et al. (eds.), Nashville, TN, January 8-11, 2008.: 1703-1705.

Bergtold, J.S., M. Anand and J. Molnar. "Joint Adoption of Conservation Agricultural Practices by Row Crop Producers in Alabama." In: *Proceedings of the 29th Southern Conservation Agricultural Systems Conference*, D.L. Wright, J.J. Marois, and K. Scanlon (eds.), Quincy, Florida. June 25-27, 2007. Available at: <http://www.ag.auburn.edu/auxiliary/nsdl/sctcsa/>.

Morton, T.A. and J.S. Bergtold. "The Economics of Cover Crop Biomass for Corn and Cotton." In: *Proceedings of the 28th Southern Conservation Tillage Systems Conference*, R.C. Schwartz, R.L. Baumhardt and J.M. Bell (eds.), Amarillo, Texas. June

26-28, 2006, USDA–ARS Conservation and Production Research Laboratory, Report No. 06-1, Bushland, TX. Available at: <http://www.ag.auburn.edu/aux/nsdl/sctcsa/>.

Raper, R.L., E.B. Schwab and J.S. Bergtold. “Reducing Recompaction with Automatic Steering.” In: *Proceedings of the 2006 Beltwide Cotton Conference*. M. Huffman and D. Richter (eds.), San Antonio, TX, January 3 – 6, 2006, National Cotton Council of America, Omnipress, 2006, pp. 512-515.

Bergtold, J.S., J.A. Terra, D.W. Reeves, J.N. Shaw, K.S. Balkcom and R.L. Raper. “Profitability and Risk Associated With Alternative Mixtures of High-Residue Cover Crops.” In: *Proceedings of the 27th Southern Conservation Tillage Systems Conference*, W. Busscher, J. Frederick, and S. Robinson (eds.), Florence, S. Carolina. June 27–29, 2005, Clemson Univ. Pee Dee Research Education Center, Florence, SC. Available at: <http://www.ag.auburn.edu/auxiliary/nsdl/scasc/>

### **MANUSCRIPTS UNDER REVIEW AT PEER- REVIEWED JOURNALS**

Canales, E., J.S. Bergtold, J.R. Williams. “Modeling the Choice of Tillage Used for Dryland Corn, Wheat and Soybean Production by Farmers in Kansas.” Submitted for review to the *Journal of Agricultural and Applied Economics* in December 2014.

Lynes, M.K., J.S. Bergtold, J.R. Williams and J.E. Fewell. “Farmers’ Willingness to Produce Alternative Cellulosic Biofuel Feedstocks: An Analysis of Adoption and Initial Acreage Allocation.” Submitted for review to the *Land Economics* in October, 2014.

Fewell, J.E., J.S. Bergtold and J.R Williams. “Farmers’ Willingness to Contract Switchgrass as a Cellulosic Bioenergy Crop in Kansas.” Submitted for review to *Energy Economics* in September, 2014.

Andrango, G., J.S. Bergtold, D. Archer, and C. Flora. “Extension and Outreach Efforts for Promoting Biofuel Production Using Alternative Feedstocks.” Submitted for review to the *Journal of Extension* in January 2014.

Atems, B. and J.S. Bergtold. “Revisiting the Statistical Specification of Near-Multicollinearity in the Logistic Regression Model.” Submitted for review to *Studies in Nonlinear Dynamics and Econometrics* in June 2013.

### **SELECTED PAPER PRESENTATIONS AT PROFESSIONAL MEETINGS BY PEER REVIEW**

Bergtold, J.S., A. Shanoyan, I. Altman, J. Fewell and J. Williams. “Estimating the Supply of Corn Stover at the Farm Level for Biofuel Production: Taking Account of Farmers’ Willingness to Harvest.” Selected Paper to be presented at the 2014 Agricultural and Applied Economics Association Annual Meeting, Minneapolis, MN, July 27 – 29, 2014.

Bergtold, J.S., J. Fewell and J. Williams. “Farmers’ Willingness to Produce Alternative Cellulosic Biofuel Feedstocks in Kansas Using Stated Choice Experiments.” Selected

paper presented at the Sun Grant Initiative 2012 National Conference: Science for Biomass Feedstock Production and Utilization, New Orleans, LA, October 2 – 5, 2012.

Lynes, M.K., *J.S. Bergtold*, J.R. Williams and J.E. Fewell. “Determining Farmers Willingness-To-Grow Cellulosic Biofuel Feedstocks on Agricultural Land.” Selected paper presented at the Agricultural & Applied Economics Associations 2012 Annual Meeting, Seattle, Washington, August 12-14, 2012.

*Bergtold, J.S.* and B. Atems. “Multicollinearity in the Logistic Regression Model in the Presence of Nonlinear Predictor Functions and Discrete Covariates.” Paper Presented at the 2011 Annual Meeting of the Missouri Valley Economics Association, Kansas City, KS, October 20 – 22, 2011.

*Bergtold, J.S.*, J. Fewell and J. Williams. “Farmers’ Willingness to Grow Sweet Sorghum as a Cellulosic Bioenergy Crop: A Stated Choice Approach,” Selected paper to be presented at the 2011 annual meeting of the Agricultural and Applied Economics Association, Pittsburgh, PA, July 24-26, 2011.

*Bergtold, J.S.*, E. Yeager and A. Featherstone. “Sample Size and Robustness of Inferences From Logistic Regression in the Presence of Nonlinearity and Multicollinearity,” Selected paper to be presented at the 2011 annual meeting of the Agricultural and Applied Economics Association, Pittsburgh, PA, July 24-26, 2011.

Fewell, J., *J.S. Bergtold* and J. Williams. “Farmers’ Willingness to Grow Switchgrass as a Biofuel Feedstock: A Stated Choice Approach,” Selected Paper Presented at the 2011 CAES-WAEA Joint Annual Meeting, Banff, Alberta, Canada, June 29-July 1, 2011.

Williams, J., M. Pachta, *J.S. Bergtold*, K. Roozeboom, M. Claassen and R. Llewelyn. “Risk Analysis of Tillage and Crop Rotation Alternatives for Winter Wheat,” Selected Paper Presented at the 2011 CAES-WAEA Joint Annual Meeting, Banff, Alberta, Canada, June 29-July 1, 2011.

Anand, M., P.A. Duffy, *J.S. Bergtold*, D. Bransby and C. Shoemaker. “Contract Grazing on Winter Annuals: Risks and Returns for Cattle Owners,” Selected Paper Presented at the 2011 Annual Meetings of the Southern Agricultural Economics Association, Corpus Christi, TX, February 5-8, 2011.

Altman, I., *J.S. Bergtold*, T. Johnson and D. Sanders. “Market Development of Biomass Industries,” Selected Paper Presented to the 57th Annual North American meetings of the Regional Science Association International, Denver, CO, November 10-13, 2010.

Canales, E., D.K. Lambert and *J.S. Bergtold*. “Ecosystem Costs in a Logistical Model of Cellulosic Ethanol Production,” Paper presented at the 2010 INFORMS Annual Meeting, Austin, TX, November 10, 2010.

*Bergtold, J.S.* and E. Onukwugha. “Revisiting the Statistical Specification of Multinomial Logistic Regression Models: An Application to Predicting Post-Stroke Discharge Disposition,” Paper presented at the 46<sup>th</sup> Annual Meeting of the Missouri Valley Economic Association, Kansas City, MO, October 22-24, 2009.

*Bergtold, J.S.* and E. Onukwugha. “Re-Examining the Specification of Regression Models of Multinomial Responses: An Application to Predicting Post-Stroke Discharge

Disposition.” Paper presented at the IPSOR 14<sup>th</sup> Annual International Meeting, Orlando, FL, May 16-20, 2009. *Received IPSOR Best General Podium Research Presentation.*

Balkcom, K.S., F.J. Arriaga, C.M. Mitchell, D. Delaney and J.S. Bergtold. “Inorganic and Organic Nitrogen Sources to Optimize Cover Crop Biomass and Cotton Yields in Conservation Systems,” Paper presented at the ASA Southern Regional Branch Meeting, Atlanta, GA, January 31 to February 3, 2009.

*Bergtold, J.S., P.A. Duffy, D. Hite and R.L. Raper.* “Demographic and Management Factors Affecting the Perceived Benefit of Winter Cover Crops in the Southeast.” Paper presented at the annual meetings of the American Agricultural Economics Association, Orlando, FL, July 27-29, 2008. Available at: <http://ageconsearch.umn.edu/bitstream/6424/2/469271.pdf>

Raper, R.L. and J.S. Bergtold. “Reducing Draft Forces and Fuel Requirements on In-Row Subsoiling.” Paper presented at the 2007 Beltwide Cotton Conference, New Orleans, LA, January 9-12, 2007.

Tallant, M.L., J. Molnar and J.S. Bergtold. “The Intervening Role of Internet Access in Conservation Practice Adoption in Three Alabama Watersheds.” Paper Presented at the 2006 annual meeting of the Rural Sociological Society, Louisville, KY, August 10, 2007.

*Bergtold, J.S., J. Molnar and M.L. Tallant.* “Conservation Intensification and the Conservation Security Program in Alabama.” Paper presented at the 2006 annual conference of the Soil and Water Conservation Society, Keystone, CO, July 22-26, 2006.

*Bergtold, J.S., J. Molnar and G. Brant.* “Limited Access to Conservation: Limited Resource Farmer Participation in the Conservation Security Program in the Southeast.” Paper presented at the XXI Congress of the European Society for Rural Sociology, Keszthely, Hungary, August 22-26, 2005.

Molnar, J., J.S. Bergtold and M. Tallant. “Producer Perspectives on the Conservation Security Program in Alabama.” Paper presented at the 2005 annual meeting of the Rural Sociological Society, Tampa, FL, August 8-12, 2005.

*Bergtold, J.S. and E.B. Peterson.* “Introducing Asymmetric Separability in the FAST Multistage Demand System.” Paper presented at the annual meeting of the American Agricultural Economics Association, Providence, Rhode Island, July 24-27, 2005. Available at: <http://ageconsearch.umn.edu/bitstream/19497/1/sp05be02.pdf>.

*Bergtold, J.S. and A. Spanos.* “Bernoulli Regression Models: Re-examining Statistical Models with Binary Dependent Variables.” Paper presented at the annual meeting of the American Agricultural Economics Association, Providence, Rhode Island, July 24-27, 2005. Available at: <http://ageconsearch.umn.edu/bitstream/19282/1/sp05be08.pdf>.

*Bergtold, J.S., E. Akobundu and E.B. Peterson.* “The FAST Method: Estimating Unconditional Demand Elasticities for Processed Foods in the Presence of Fixed Effects.” Paper presented at the annual meeting of the American Agricultural Economics Association, Montreal, Quebec, July 27-30, 2003.

*Bergtold, J.S.*, D.B. Taylor and D.J. Bosch. "Networking Your Way to a Better Prediction: Effectively Modeling Contingent Valuation Survey Data." Paper presented at the annual meeting of the American Agricultural Economics Association, Montreal, Quebec, July 27-30, 2003. Available at: <http://ageconsearch.umn.edu/bitstream/22152/1/sp03be09.pdf>.

*Bergtold, J.S.*, G. Norton and C. Brewster. "Projected Impacts of the New Partnership Agreement Between the EU and ACP States on the Senegalese Groundnut Sector." Paper presented at the annual meeting of the Southern Agricultural Economics Association, Dallas/Fort Worth, TX, January 28-31, 2001.

### INVITED PRESENTATIONS

*Bergtold, J.S.* "Farmers' Willingness to Produce Alternative Cellulosic Biofuel Feedstocks in Kansas Using Stated Choice Experiments." Presented as a seminar in the Department of Economics, Administration and Sociology, ESALQ, University of Sao Paulo, Piracicaba, San Paulo, Brazil, June 18, 2013.

*Bergtold, J.S.* "Biofuel Feedstock Production: Farmer Adoption and Potential Land-Use Impacts." Presented at the Biofuels, Climate Change and Mitigation: Annual Research Symposium, Lawrence, KS, August 15-16, 2012.

Anand, M., D. Archer, *J.S. Bergtold* and E. Canales. "Balancing Feedstock Economics and Ecosystem Services," Selected Paper presented at the Sustainable Feedstocks for Advanced Biofuels Workshop, Atlanta, GA, September 28-30, 2010.

*Bergtold, J.S.* "Cover Crop and Conservation Economics in Kansas." Presented at the 2010 Crop Production Update Conference put on by the Kansas Agribusiness Retailers Association, Salina, KS, January 13-14, 2010.

*Bergtold, J.S.*, D. Traster, J. Aistrup and B. Golden. Invited to participate in an Oxford Style Debate on the resolution: The free market provides the most efficient and equitable manner to distribute water resources and energy supplies. 2<sup>nd</sup> annual Kansas Water Issues Forum for Water and Energy: Reduce, Reuse, Recharge. Wichita, KS, December 10, 2008 and Hays, KS, December, 11, 2008.

*Bergtold, J.S.* "Principles of Economics of Conservation Tillage Production Systems." Presented to a group of African farmers and agricultural professionals at Tuskegee University, Tuskegee, AL, October 24, 2007.

*Bergtold, J.S.* "Conservation Tillage Systems Learning Tool and Conservation Tillage Systems Production Guide." Presented at the 2007 Alabama Farmers Federation Commodity Conference, Conservation Tillage Committee, Mobile, AL, August 9-11, 2007.

*Bergtold, J.S.* "The Conservation Decision: Economics of Conservation and Precision Agriculture." Presented at the United State Department of Agriculture's 2007 Agricultural Outlook Forum, Arlington, VA, March 1-2, 2007.



*Bergtold, J.S.* and W.R. Goodman. “Principles of Economics of Conservation Tillage Production Systems.” Presented at the Northern Alabama Conservation Tillage Workshop, Decatur, AL, February 1, 2007.

*Bergtold, J.S.* and W.R. Goodman. “Principles of Economics of Conservation Tillage Production Systems.” Presented at the Southern Alabama Conservation Tillage Workshop, Dothan, AL, January 25, 2007.

*Bergtold, J.S.* “Conservation Agriculture Economics.” Presented at the Alabama SWCS Annual Meeting, Huntsville, AL, June 7-9, 2006.

*Bergtold, J.S.* “Economics of Conservation Tillage.” Presented at the Alabama Conservation Tillage Workshop, Andalusia, Alabama, February 14-15, 2006.

*Bergtold, J.S.* and J. Molnar. “Conservation Security Program: Perspectives of Farmers in Three Alabama Watersheds.” Presented to ARS researchers and NRCS staff at the NRCS State Office, Auburn, AL, May 11, 2005.

*Bergtold, J.S.* “The Economics of Conservation Tillage and the CSP.” Presented at the Sustainable Agriculture and Conservation Tillage: A System Approach Training Conference, Perry, GA, February 15-17, 2005.

*Bergtold, J.S.* “The Economics of Conservation and the Conservation Security Program.” Presented to growers at the Alabama Farmers’ Federation Commodity Group annual meeting, Birmingham, AL, February 1-3, 2005.

#### **OTHER PRESENTATIONS**

*J.S. Bergtold*, E. Canales and J. Williams. “Adoption and Intensification of Conservation Practices, Risk and Policy.” Presented at the 2014 Risk and Profit Conference, Manhattan, KS, August 21-22, 2014.

*J.S. Bergtold*, B. Lauer and E. Pruet. “Direct and Indirect Impacts of Agricultural Land-Use Due to Increased Production of Grain-Based Ethanol in Kansas, USA: A County Level Analysis.” Presented at the RCN Conference on Pan-American Biofuels and Bioenergy Sustainability, Recife, Brazil, July 22 – 25, 2014.

B. Lauer and *Bergtold, J.S.* “Impact of Biofuel Production in Kansas on Corn Production and Irrigation.” Presented at Climate Change and Energy: Basic Science, Impacts and Mitigation, 2013 Kansas NSF EPSCoR Annual Meeting, Lawrence, KS, October 7 – 8, 2013.

*Bergtold, J.S.* “Farmer Adoption and Intensification of Conservation Practice Adoption in Kansas in Response to Environmental Changes.” Presented at Climate Change and Energy: Basic Science, Impacts and Mitigation, 2013 Kansas NSF EPSCoR Annual Meeting, Lawrence, KS, October 7 – 8, 2013.

*Bergtold, J.S.*, S. Gong, I. Atzman, J. Williams and J. Fewell. “Farmers’ Willingness to Harvest Agricultural Residues in Kansas under Contract: The Case for Corn Stover.” Presented at the WERA-72 Annual Meeting, Las Vegas, NV, June 9 – 11, 2013.

*Bergtold, J.S.* “Cover Crop Economics: Costs, Returns and Opportunities.” Presented at an Organized Symposium, entitled “The Economics of Cover Crops: What Will Drive Adoption”, at the Agricultural & Applied Economics Associations 2012 Annual Meeting, Seattle, Washington, August 12-14.

*Bergtold, J.S.* “An Exploration of Land Use and Land Cover Change at the County Level in Kansas.” Presented at the Biofuels and Climate Change: Farmers’ Land Use Decisions Research Symposium, Lawrence, KS, August 25, 2011.

*Bergtold, J.S., J. Williams and J. Fewell.* “Biofuel Contracting for Cellulosic Feedstocks.” Presented at the 2011 Risk and Profit Conference, Manhattan, KS, August 18-19, 2011.

*Bergtold, J.S., J. Fewell and J. Williams.* “Farmers’ Willingness to Grow Cellulosic Biofuel Feedstocks: Contracting and Pricing.” Presented at the 2011 World Congress on Industrial Biotechnology and Bioprocessing, Toronto, Ontario, Canada, May 8-11, 2011.

*Bergtold, J.S., J. Williams and J. Fewell.* “Cellulosic Biofuel Feedstock Production and Contracting: An Interactive Survey Building Session.” Presented at the 2010 Risk and Profit Conference, Manhattan, KS, August 19-20, 2010.

*Bergtold, J.S. and S. Funk.* “A Deeper Look at No-Tillage Practices on the Plains: Is Conservation Tillage Conserving Dollars in Your Pocket?” Presented at the 2009 Risk and Profit Conference, Manhattan, KS, August 20-21, 2009.

*Bergtold, J.S. and L. Maddy.* “Cover Crop Economics: Costs, Risks and Adoption.” Presented at the 2008 Risk and Profit Conference, Manhattan, KS, August 14-15, 2008.

Arriaga, F., *J.S. Bergtold* and K. Balkcom. “Benefits of Conservation Systems on Water Use and Impact of Conservation Programs.” Presented at the Georgia and Soil Water Conservation Society 2005 Annual Meeting, Fort Gaines, GA, June 16-18, 2005.

*Bergtold, J.S. and J. Molnar.* “The Conservation Security Program for the Limited Resource Farmer.” Presented at the 62<sup>nd</sup> Annual Professional Agricultural Workers Conference, Tuskegee, AL, December 5-7, 2005.

Presented information about the economics of conservation tillage production systems for corn, cotton, peanuts and soybeans to farmers, extension personnel, congressional staff, researchers, as well as primary and secondary school audiences at over 22 field days across the Southeast from 2004 to 2007.

#### **POSTER PRESENTATIONS AT PROFESSIONAL MEETINGS**

G. Andrango, *J.S. Bergtold*, A. Shanoyan, D. Archer and C. Floras. “Farmers’ Willingness to Grow Oilseeds as a Biofuel Feedstock for Jet Fuel: A Latent Class Model Approach.” Poster presented at the 2014 Agricultural and Applied Economics Association Annual Meeting, Minneapolis, MN, July 27 – 29, 2014.

E. Canales, *J.S. Bergtold*, J. Williams and J. Peterson. “Adoption and Intensification of In-Field Conservation Practices Under Risk.” Poster presented at the 2014 Agricultural



and Applied Economics Association Annual Meeting, Minneapolis, MN, July 27 – 29, 2014.

K. Pokarel, R.P. Wibowo, F Nti and *J.S. Bergtold*. “Sorghum as an Advanced Biofuel: Price Effect on Wheat, Corn and Soybean Markets.” Poster presented at the RCN Conference on Pan-American Biofuels and Bioenergy Sustainability, Recife, Brazil, July 22 – 25, 2014.

Gong, S. and *J.S. Bergtold*. 2013. “Assessing Conditional Probabilities of Adopting Conservation Practices of Kansas Farmers.” Poster presented at the 2013 Agricultural and Applied Economics Association Annual Meeting, Washington D.C., August 4 – 6, 2013.

Fewell, J.E., *J.S. Bergtold*, and J.R. Williams. 2012. “The Role of Risk Attitudes in Producing Switchgrass as a Biofuel Feedstock at the Farm Level.” Poster presented at: Conference on Biofuels and Climate Change: Farmers Land Use Decisions. University of Kansas August 15-16, 2012.

Fewell, J.E., *J.S. Bergtold*, and J.R. Williams. 2012. “Farmers Willingness to Grow Crops for Cellulosic Bioenergy.” Poster presented at: Kansas State University Corporate Sustainable Energy Symposium: Pros and Cons Analysis and Evaluation. May 1-2, 2012.

Fewell, J., *J.S. Bergtold*, and J. Williams. “Farmers’ Willingness to Grow Sweet Sorghum for Biofuels: A Stated Choice Approach.” Poster presented at Kansas State University Bioenergy Symposium: Mapping Sustainable Bioenergy Opportunities in the central Great Plains--Feedstocks, Land Use, Markets, and Socio-economic Aspects. Manhattan, KS, April 27-28, 2011.

*Bergtold, J.S.*, J. Fewell, K. Dobbs, J.C. Brown, V. Barve, E. Hanley, J. Peterson, D. Earnhart, J. Aistrup, S. Egbert, J.J. Feddema, J. Gibson, L. Kulcsar, J. Nagel, V. Smith, B. Sturm, S. White, M. Caldas, S. Unekis, and D. Peterson. “Crop Acreage Shifts From Bioenergy Production in Kansas.” Poster presented at the 2010 Statewide EPSCoR Conference: Energy, Climate and the Future: The Role of Kansas, Lawrence, KS, October 4, 2010.

J.C. Brown, V. Barve, E. Hanley, *J.S. Bergtold*, J. Fewell, K. Dobbs, J. Peterson, D. Earnhart, J. Aistrup, S. Egbert, J.J. Feddema, J. Gibson, L. Kulcsar, J. Nagel, V. Smith, B. Sturm, S. White, M. Caldas, S. Unekis, and D. Peterson. “The Impact of Biofuel Plant Location on Land-Use/Land-Cover Change in Kansas.” Poster presented at the 2010 Statewide EPSCoR Conference: Energy, Climate and the Future: The Role of Kansas, Lawrence, KS, October 4, 2010.

Mo, L., *J.S. Bergtold*, A.M. Featherstone. “Examining the Reliability of Logistic Regression Estimation Software.” Poster Presented at the 2010 Annual Meeting of the Agricultural and Applied Economics Association, Denver, CO, July 25-27, 2010.

*Bergtold, J.S.*, J. Fewell and P. Duffy. “Farmers’ Willingness to Grow Cover Crops: Examining the Economic Factors of Adoption in Alabama.” Poster Presented at the 2010 Annual Meeting of the Agricultural and Applied Economics Association, Denver, CO, July 25-27, 2010.

*Bergtold, J.S.* and E. Onukwugha. "Race Disparities in Hospital Discharge Disposition: The Role of Model Misspecification." Poster presented at the 2010 Annual Research Meeting of Academy Health, Boston, MA, June 27-29, 2010.

Anand, M., *J.S. Bergtold*, P.A. Duffy, D. Hite, F. Arriaga and R.L. Raper. "Farmers' Willingness to Produce Cellulosic Biofuel Feedstocks: Examining the Case for Cover Crops in the Southeast." Poster presented at the 2009 Agricultural and Applied Economics Association Annual Meeting, Milwaukee, WI, July 26-28, 2009.

Anand, M., *J.S. Bergtold*, P.A. Duffy, D. Hite, R.L. Raper and F.J. Arriaga. "Using Cover Crop Residues as a Biofuel Feedstock: Willingness of Farmers to Trade Improved Soil Conservation for Profit." Poster presented at the 30th Southern Conservation Agricultural Systems Conference and 8th Annual Georgia Conservation Production Systems Training Conference, Tifton, Georgia, July 29-31, 2008.

Balkcom, K.S., A.J. Price, F.J. Arriaga, D.P. Delaney and *J.S. Bergtold*. "Cotton Response to Herbicide Technologies, Row Patterns, and Tillage Systems." Poster presented at the ASA-CSSA-SSSA 2007 International Annual Meeting, New Orleans, LA, November 4 – 8, 2007.

Biscaro, A., F.J. Arriaga, K. Balkcom, J. Shaw, E. VanSanten, *J.S. Bergtold* and R.L. Raper. "Impact of Tillage, Manure Applications and Landscape Variability on Soil Physical Properties of a Southeastern Coastal Plain Crop." Poster presented at the ASA-CSSA-SSSA 2007 International Annual Meeting, New Orleans, LA, November 4-8, 2007.

*Bergtold, J.S.*, M. Anand and E. Onukwugha. "Multivariate Bernoulli Regression Models: An Alternative to Specifying Discrete Choice Models with Multiple Simultaneous Choices." Poster presented at the 2007 Annual Meeting of the American Agricultural Economics Association, Portland, OR, July 29-August 1, 2007.

*Bergtold, J.S.* and T.A. Morton. "Conservation Tillage System Learning Tool: Version 2." Poster presented at the 29<sup>th</sup> Southern Conservation Agricultural Systems Conference, Quincy, FL, June 25-27, 2007.

Price, A.J., R.L. Raper and *J.S. Bergtold*. "Vertical Simulated Weed Seed Movement Following Various Tillage Practices and Overhead Irrigation Intensities." Poster presented at the 29<sup>th</sup> Southern Conservation Agricultural Systems Conference, Quincy, FL, June 25-27, 2007.

Biscaro, A., F.J. Arriaga, K.S. Balkcom, J.N. Shaw, E. VanSanten, *J.S. Bergtold*, R.L. Raper and D.W. Reeves. "Assessment of Soil Physical Properties on Different Management Practices and Landscape Positions." Poster presented at the 29<sup>th</sup> Southern Conservation Agricultural Systems Conference, Quincy, FL, June 25-27, 2007.

Biscaro, A., F.J. Arriaga, K.S. Balkcom, J. Shaw and *J.S. Bergtold*. "Management Practices and Landscape Variability Effects on Selected Soil Physical Properties."

Poster presented at the Southern Branch American Society of Agronomy 2007 Annual Meeting, Mobile, AL, February 4-6, 2007.

Price, A.J., *J.S. Bergtold*, K.S. Balkcom and J.R. Jones. "Critical Weed Free Period in Twin-Row Conservation Tillage Corn." Poster presented at the Southern Weed Science Society Annual Meeting, Nashville, TN, January 22-24, 2007.

Price, A.J., *J.S. Bergtold* and R.L. Raper. "Winter Cover Crop Biomass for Biofuel Production: Implications for Soil Coverage and Profitability." Poster presented at the Auburn University Research Symposium, "Energy Solutions for Alabama Natural Resources," Auburn, AL, October 23-24, 2006.

Raper, R.L., E.B. Schwab, *J.S. Bergtold*, A.J. Price, K.S. Balkcom, F.J. Arriaga and T.S. Kornecki. "Maximizing Rye Cover Crop Biomass Production by the Use of Timely Subsoiling." Poster presented at the Auburn University Research Symposium, "Energy Solutions for Alabama Natural Resources," Auburn, AL, October 23-24, 2006.

Price, A.J., F.J. Arriaga, K.S. Balkcom, *J.S. Bergtold*, T.S. Kornecki and R.L. Raper. "Annual Weeds: Alternative Crops for Alternative Fuel." Poster presented at the Auburn University Research Symposium, "Energy Solutions for Alabama Natural Resources," Auburn, AL, October 23-24, 2006.

Balkcom, K.S., F.J. Arriaga, R.L. Raper and *J.S. Bergtold*. "Nitrogen Fertilizer Requirements to Maximize Rye Cover Crop Biomass Production." Poster presented at the Auburn University Research Symposium, "Energy Solutions for Alabama Natural Resources," Auburn, AL, October 23-24, 2006.

Akobundu, E., *J.S. Bergtold* and C.D. Mullins. "The Bernoulli Regression Model Vs. the Logistic Regression Model: Simulation and Regression Analysis." Poster presented at the 28<sup>th</sup> Annual Meeting for the Society for Medical Decision Making, Boston, MA, October 14-18, 2006.

Anand, M., *J.S. Bergtold*, G. Siri-Prieto, D.W. Reeves, R. Raper and T. Morton. "Net Returns from Peanut Production Systems with Winter Annual Grazing." Poster presented at the 2006 Annual Meeting of the American Agricultural Economics Association, Long Beach, CA, July 23-26, 2006.

Anand, M., *J.S. Bergtold*, G. Siri-Prieto, D.W. Reeves, R. Raper and T. Morton. "Profitability of Production Systems with Cotton and Peanuts Incorporating Winter Annual Grazing." Poster presented at the 28<sup>th</sup> Annual Southern Conservation Tillage Conference, Amarillo, TX, June 26-28, 2006.

*Bergtold*, J.S. and T.A. Morton. "A Conservation Tillage Profitability Learning Tool." Poster presented at the 28<sup>th</sup> Annual Southern Conservation Tillage Conference, Amarillo, TX, June 26-28, 2006.

Jones, J.R., A.J. Price, *J.S. Bergtold*, K.S. Balkcom and M.E. Stoll. "Twin-row Spacing Does Not Affect Weed Free Critical Period in Conservation Corn." Poster presented at the 28<sup>th</sup> Annual Southern Conservation Tillage Conference, Amarillo, TX, June 26-28, 2006.

*Bergtold, J.S., J.A. Terra, D.W. Reeves, J.N. Shaw, K.S. Balkcom and R.L. Raper.* "Spatial Variability in Net Returns for Conservation Tillage Systems with Alternative Mixtures of High Residue Cover Crops." Poster presented at the annual meetings of the American Society of Agronomy, Salt Lake City, UT, November 6-10, 2005.

## EXTENSION DOCUMENTS AND REPORTS

Barkley, A., J. Tack, L.L. Nalley, *J. Bergtold*, R. Bowden and A. Fritz. "The Impact of Climate, Disease, and Wheat Breeding on Wheat Variety Yields in Kansas, 1985–2011." Bulletin 665, Kansas State University Agricultural Experiment Station and Cooperative Extension Service, 2013. Available at:  
<http://www.ksre.ksu.edu/bookstore/pubs/SB665.pdf>.

Golden, B., *J.S. Bergtold*, M. Boland, K. Dhuyvetter, T. Kastens, J. Peterson and S. Staggenborg. "A Comparison of Select Cost-Benefit Studies on the Impacts of H.R. 2454 on the Agricultural Sector of the Economy." Report prepared for the American Farmland Trust Center for Agriculture in the Environment. Department of Agricultural Economics, Kansas State University. 2009. Available at:  
[http://www.agmanager.info/policy/commodity/Analysis/Comparison\\_Cost-Benefit\\_Studies\\_HR2454\\_12-10-09.pdf](http://www.agmanager.info/policy/commodity/Analysis/Comparison_Cost-Benefit_Studies_HR2454_12-10-09.pdf).

Dhuyvetter, K.C. and *J.S. Bergtold*. "Economics of Cover Crops for Residue and Forage Production." PowerPoint presentation given at the Department of Agronomy Evening Field Tour: Cover Crops in No Till Cropping Systems, Ashland Bottoms Research Farm, Manhattan, KS, September 9, 2009. Available at:  
<http://www.agronomy.ksu.edu/DesktopModules/ViewDocument.aspx?DocumentID=2596>

*Bergtold, J.S., C.D. Monks, K.S. Balkcom, R.L. Raper and F.J. Arriaga.* "Agronomic and Economic Impact of Timing for Planting and Defoliation on Cotton Yield, Quality and Profitability." In: *2008 Cotton Research and Extension Report*, Alabama Agricultural Experiment Station, Research Report No. 33, 2009: pp. 17-19.

Balkcom, K.S., F.J. Arriaga, C.C. Mitchell, D.P. Delaney and *J.S. Bergtold*. "Nitrogen Fertilizer Source, Rates, and Timing for a Cover Crop and Subsequent Cotton Crop." In: *2007 Cotton Research Report*, K.S. Lawrence, C.D. Monks and D.P. Delaney (eds.), Alabama Agricultural Experiment Station, Research Report No. 32, 2008: pp. 27-28.

Balkcom, K.S., F.J. Arriaga, C.C. Mitchell, D.P. Delaney and *J.S. Bergtold*. "Nitrogen Fertilizer Source, Rates and Timing for a Cover Crop and Subsequent Cotton Crop." In: *2006 Cotton Research Report*, K.S. Lawrence, C.D. Monks and D.P. Delaney (eds.), Alabama Agricultural Experiment Station, Research Report No. 31, 2007: pp. 27-28.

## RESEARCH IN POPULAR MEDIA

*Bergtold, J.S.* "Farmers' Willingness to Grow Cellulosic Biofuel Feedstocks," Agriculture Today Radio Show, March 20, 2012.

*Bergtold, J.S.* "Bergtold Leads Study to Determine Farmers. Willingness to Grow Crops for Bioenergy Production," News and Events: Center of Sustainable Energy, Kansas

State University, 3(3) (Third Quarter 2011): 1.

Radio Interview, "Costs and Returns from using Cover Crops," Agriculture Today Radio Show, February 9, 2010.

Radio Interview, "Cover Crop Economics," Agriculture Today Radio Show, April, 2009.

Smith, D. "On the Straight and Narrow: Hit the Mark to Ensure Strip-Till Profits." *Farm Journal*. 132(2008): Cotton Journal 5.

McGinnis, L. "Show Me the Money: Why Economics is Essential for Sustainable Agriculture." *Agricultural Research Magazine*, 55(2007): 8 -11.

Suszkiw, J. "We Reap What We Sow: Examining Costs/Benefits of Using Corn Stover for Bioenergy." *Agricultural Research Magazine*, 55(2007): 12-13.

### **EXTERNAL GRANTS**

National Science Foundation. "REU Site: Summer Academy in Sustainable BioEnergy." with M. Rezac. 2014 to 2017. Amount: \$325,800.

National Science Foundation. "CNH: Coupled Climate, Cultivation and Culture in the Great Plains: Understanding Water Supply and Water Quality in a Fragile Landscape" with M.D. Daniels, J.A. Aistrup, M.M. Caldas, A. Sheshukov, M.E. Mather, J. H. Stamm and D. Haukos. 2013 to 2016. Amount: \$1,444,285.

National Science Foundation, "Land Change in Brazil's Cerrado: Ethanol and Sugar Cane Expansion at the Farm and Industry Scale," with M. Caldas, T. Xia, J.C. Brown, J. Feddema, D. Peterson, and J. Kastens. 2012 to 2015. Amount: \$524,999

USDA, Agricultural Research Service and Office of Naval Research, "Analysis of Farmer Willingness to Produce Oilseeds for Biofuel in the Western U.S." 2012 to 2013, Amount: \$220,000.

USDA, National Institute of Food and Agriculture, Specialty Crops Research Initiative, "Magnetoelastic Biosensors for the Detection of *Salmonella* on Tomatoes and Cantaloupes," with B. Chin, T. Huang, J. Barbaree and J. Weese, 2011-2015, Amount: \$1,543,088.

USDA, National Institute of Food and Agriculture, Agriculture and Food Research Initiative (AFRI) Foundation Grant, "Small and Medium Size Farmers' Ability and Willingness to Supply Carbon Offsets through Carbon Markets and Conservation Crop Production," with J. Williams, J. Peterson, M. Langemeier and S. Staggenborg, 2011-2014, Amount: \$499,334.

USDA, National Institute of Food and Agriculture, National Needs Fellowship Grant, "Meeting the Need for M.S. and Ph.D. Scholars Trained in the TESA of Agricultural Management and Economics," with J. Williams, J. Peterson and M. Langemeier, 2011-2015, Amount: \$236,000.

USDA, National Institute of Food and Agriculture, Specialty Crop Research Initiative, "A SMART Trap System for the Invasive Ambrosia Beetles in Production Nurseries," with K. Dong-Joo and D. Held at Auburn University, 2010-2014, Amount: \$604,771

Sun Grant Initiative (Oklahoma State University and Department of Transportation), South Central Region, "Farmers' Willingness to Produce Cellulosic Biofuel Feedstocks Under Alternative Contractual, Pricing and Harvesting Arrangements," with J. Williams, M. Langemeier, R. Nelson, S. Staggenborg and F. Epplin, 2009-2012, Amount: \$233,000.

National Science Foundation, EPSCoR through University of Kansas Center for Research, Inc (with KTEC and KBA), "Farmers' Decisions to Grow Crops for Fuel." with J. Peterson, L. Kulcsar and T. Selfa, 2009-2014, Amount: \$3,253,090 (\$973,853 K-State portion).

Cotton Incorporated, "Conservation Tillage Systems: Production, Profitability and Stewardship," with J. Touchton, 2009, Amount: \$2000

USDA, Agricultural Research Service, "Conservation Systems Research for Improving Producer Profitability," 2008-2009, Amount: \$34,200.

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