

Noah James Miller

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Education

2016-Pres PhD Agricultural Economics - Kansas State University, Manhattan, KS
Expected Graduation: May 2019
Fields: Production Economics, Risk Management, Farm Income
Dissertation - *Essays in Yield Modeling and Basis Price Forecasting* (in progress)
Chair- Dr. Jesse Tack (Co-Chair), Dr. Jason Bergtold (Co-Chair)
GPA: 4.0/4.0

2013-2016 MS Agricultural Economics - Kansas State University, Manhattan, KS
Thesis - *Estimating Elasticities of Input Substitution using Data Envelopment Analysis*
Chair - Dr. Jason Bergtold
GPA: 3.8/4.0

2008-2011 MSc History of Empires - London School of Economics, London, UK

2002-2007 BA International Area Studies - University of Oklahoma, Norman, OK
GPA: 3.5/4.0

Employment History

2014-Pres Dep. of Agricultural Economics, Kansas State University, Manhattan, KS
Graduate Research Assistant
Compiled and geocoded farm-level historical yield and weather data for estimation of crop yield models. Created a retrospective panel dataset of Kansas farm adoption of precision agriculture technologies for analysis of adoption trends. Helped administer and collected data for a survey on Kansans' willingness to pay for water services under drought conditions.
Outputs: Peer-reviewed journal articles, conference presentations and posters, extension presentations and publications, popular media appearances, and interdisciplinary collaborations.

2014-Pres Dep. of Agricultural Economics, Kansas State University, Manhattan, KS
Graduate Teaching Assistant
Assisted with *Agricultural Economics and Agribusiness (AGEC 120)*, *Honors Agricultural Economics and Agribusiness (AGEC 121)*, *Optimization Techniques for Agricultural Economics (AGEC 712)*, *Optimization Techniques for Agribusiness (AGEC 761)*, and *International Agribusiness and Policy Analysis (AGEC 770)*. Specific duties included:

- Graded homework assignments and responded to student questions regarding homework.
- Developed and presented two weeks worth of guest lectures for *AGEC 120* and *AGEC 121 (Evaluation: 4.1/5)*.

- 2017** Dep. of Agricultural Economics, Kansas State University, Manhattan, KS
Instructor (Evaluation: 4.1/5)
Co-taught *Agricultural Economics and Agribusiness (AGEC 120)* with Dr. Jason Bergtold, an undergraduate economics and business principles course. Specific duties included:
- Led weekly discussion sections (2 sections, with approximately 30 students per section).
 - Held weekly one-on-one office hours and weekly group tutoring sessions.
 - Assisted students with class homework questions and exam reviews.
- 2017** Resource and Rural Economics Division (RRED), Economics Research Service, USDA, Washington, DC
Pathways Intern
Provided analysis for RRED's Farm Economy Branch. Specific duties included:
- Improved USDA's Farm Household Income Forecast using the Agricultural Resource Management Survey (ARMS) Dataset.
 - Attended weekly branch meetings and presented findings from income forecasting research to supervisor, Dr. Daniel Prager, and branch chief, Dr. Jeffrey Hopkins.
 - Performed a literature review and assisted in research examining the effects of commodity prices on farm debt holdings.
- Outputs:** Updated USDA 2018 Farm Household Income Forecast and a publication in *Agricultural Finance Review*(see below).

Peer Reviewed Journal Articles

1. **Miller, N.J.**, J.S. Bergtold, and A.M. Featherstone. "Estimating Elasticities of Substitution using Data Envelopment Analysis." *Applied Economics* (In Review).
2. **Miller, N.J.**, T.W. Griffin, P. Goeringer, A. Ellixson, and A. Shanoyan. 2018. "Estimating Value, Damages, and Remedies when Farm Data are Misappropriated." *Choices* 33(4).
3. **Miller, N.J.**, T.W. Griffin, I.A. Ciampitti, and A. Sharda. 2018. "Farm Adoption of Embodied Knowledge and Information Intensive Precision Agriculture Technology Bundles." *Precision Agriculture*.
4. Prager, D.L., C.B. Burns, and **N.J. Miller**. 2018. "How Do Financially Vulnerable Farms Finance Debt in Periods of Falling Prices?" *Agricultural Finance Review* 78(4), pp. 412-424.
5. Griffin, T.W., **N.J. Miller**, J.S. Bergtold, A. Shanoyan, A. Sharda, and I.A. Ciampitti. 2017. "Farms' Sequence of Adoption of Information-Intensive Precision Agricultural Technology." *Applied Engineering in Agriculture* 33(4), pp. 521-527.
6. **Miller, N.J.**, T.W. Griffin, J.S. Bergtold, I.A. Ciampitti, and A. Sharda. 2017. "Farmers' Adoption Path of Precision Agriculture Technology." *Proceedings of the 11th European Conference on Precision Agriculture, Advances in Animal Bioscience* 8(2), pp. 708-712.

Working Papers

Miller, N.J., J.B. Tack, and J.S. Bergtold. "The Impacts of Warming Temperatures on US Sorghum Production and the Potential for Adaptation" (Job Market Paper)

Miller, N.J., J.S. Bergtold, M.R. Taylor, and J.B. Tack. "Incorporating Soil Moisture Data into Basis Price Forecasting Models."

Book Chapters

Bergtold, J.S., A.C. Sant'Anna, **N.J. Miller**, S. Ramsey, and J.E. Fewell. 2016. "Water Scarcity and Conservation along the Biofuel Supply Chain in the United States: From Farm to Refinery." In J. Ziolkowska and J. Peterson (eds.) *Competition for Water Resources: Experiences and Management Approaches in the US and Europe*. Elsevier.

Academic Conference Presentations

Miller, N.J., A. Rashid, J.S. Bergtold, T.W. Griffin, and A. Shanoyan. "A Spatio-Temporal Analysis of the Adoption Process of Complementary Precision Agricultural Practices in Kansas." *Agricultural & Applied Economics Association Annual Meeting*, Chicago, IL, July 30-August 1, 2017.

Griffin, T.W., **N.J. Miller**, J.S. Bergtold, A. Shanoyan, A. Sharda, and I.A. Ciampitti. 2017. "Farms' Sequence of Adoption of Information-Intensive Precision Agricultural Technology." *American Society of Agricultural and Biological Engineers*, Spokane, WA, July 16-19, 2017.

Miller, N.J., T.W. Griffin, J.S. Bergtold, I.A. Ciampitti, and A. Sharda. 2017. "Farmers' Adoption Path of Precision Agriculture Technology." *11th European Conference of Precision Agriculture*, Edinburgh, UK, July 16-18, 2017 (**Award - Best Paper Presentation**).

Miller, N.J., T.W. Griffin, J.S. Bergtold, A. Sharda, and I.A. Ciampitti. "Adoption of Precision Agriculture Technology Bundles on Kansas Farms." *Southern Agricultural Economics Association Annual Meeting*, Mobile, AL, February 4-7, 2017.

Miller, N.J., J.S. Bergtold, and A. M. Featherstone. "Estimating Elasticities of Substitution using Data Envelopment Analysis." *Agricultural and Applied Economics Association Annual Meeting*, Boston, MA, July 31-August 2, 2016 (Poster).

Wibowo, R., K. Pokharel, **N.J. Miller**. "Assessing the Impact of Oil Price Volatility in the U.S. Ethanol Market." *2015 Energy Symposium*, Center for Sustainable Energy, Kansas State University, Manhattan, KS, April 8-9, 2018 (Poster).

Extension Conference Presentations

Miller, N.J., J.B. Tack. "Can Adjustment of Planting Dates Offset Warming Impacts for Kansas Sorghum Producers?" *2018 Risk & Profit Conference*, Manhattan, KS, August 18-19, 2018.

Cullop, J., **N.J. Miller**, T.W. Griffin, and A. Sharda. "Timeline of Precision Agriculture Technology Adoption." *21st Annual Kansas Agricultural Technologies Conference of the Kansas Agricultural Research and Technology Association*, Junction City, KS, January 18-19, 2018 (Poster).

Miller, N.J., T.W. Griffin, J.S. Bergtold, I.A. Ciampitti, A. Sharda, and A. Shanoyan. "Precision Agriculture Technology Adoption Patterns of Kansas Farms." *20th Annual Kansas Agricultural Technologies Conference of the Kansas Agricultural Research and Technology Association*. Junction City, KS, January 19-20, 2017 (Poster).

Griffin, T.W., **N.J. Miller**, K.L. Herbel, G.A. Ibendahl, A. Sharda, I.A. Ciampitti, and B.P. McCornack. "Adoption and Utilization of Precision Agriculture Technology." *2016 Risk & Profit Conference*, Manhattan, KS, August 18-19, 2016.

Extension Publications

Miller, N.J., T.W. Griffin, J.S. Bergtold, I.A. Ciampitti, and A. Sharda. "Kansas Farm Adoption of Embodied Knowledge and Information Intensive Precision Agriculture Technology Bundles." Kansas State Dept. of Agricultural Economics Extension Publication. Agmanager.info. December 2017.

Torrez, C., **N.J. Miller**, S. Ramsey, and T.W. Griffin. "Factors Influencing the Adoption of Precision Agricultural Technologies by Kansas Farmers." Kansas State Dept. of Agricultural Economics Extension Publication. Agmanager.info. December 2016.

Griffin, T.W., **N.J. Miller**, C. Torrez, I. Ciampitti, and A. Sharda. "Precision Agriculture Technology Adoption and Obsolescence." Kansas State Dept. of Agricultural Economics Extension Publication. Agmanager.info. September 2016.

Miller, N.J., T.W. Griffin, J.S. Bergtold. "Kansas Farms' Sequence of Information Intensive Precision Agriculture Technology Adoption in Bundles." Kansas State Dept. of Agricultural Economics Extension Publication. Agmanager.info. September 2016.

Extension Radio Interviews

"Study of Sorghum Yields". For *Agriculture Today*. With J.B. Tack. 08-15-2018.

"Precision Ag. Technology." For *Agriculture Today*. With T.W. Griffin, C. Torrez, and S. Ramsey. 12-13-2016.

"Technology Decisions." For *Agriculture Today*. With J.S. Bergtold and T.W. Griffin. 10-11-2016.

Grant Activity

USDA AFRI Education and Workforce Development Predoctoral Fellowship Grant. (\$101,685). "Producer Driven Adaptation to Extreme Weather and Climate Change: Examining Farm Management and Marketing Strategies." Noah Miller(Project Director), Jason Bergtold(Primary Mentor), and Jesse Tack(Collaborating Mentor) (In Review).

Referees

Dr. Jason S. Bergtold

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Professor
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Dr. Jesse B. Tack

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