

# Nicholas Pates

Home: 420 Redding Rd. #115 – Lexington, KY – 40517

📞 (701) 793 1910 • ✉ njpates@gmail.com

*Postdoctoral Researcher University of Kentucky*

## Professional

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**University of Kentucky**  
*Postdoctoral Researcher,*

**Lexington, KY**  
*Jan. 2019–Present*

## Education

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**Kansas State University**  
*PhD Agricultural Economics,*

**Manhattan, KS**  
*Aug. 2014 – Dec. 2018*

**Iowa State University**  
*MS Economics,*

**Ames, IA**  
*Aug. 2011 – Jul. 2013*

**Minnesota State University Moorhead**  
*BA Economics (Minors in Math and Finance),*

**Moorhead, MN**  
*Sept. 2006 – May 2011*

## PhD Dissertation

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**Committee:** Nathan P. Hendricks (major prof.), Jason Bergtold, Jesse Tack, Marcellus Caldas

For my dissertation I estimated the field-level planted corn acreage price response over 2004 to 2016 over the contiguous United States. The underlying goal for this project is to incorporate heterogeneity in supply response using spatially rich datasets over wide expanses of the US agricultural production area. Due to the expanse, depth and spatial resolution of the dataset, this project estimates parsimonious conditional transition probabilities methods to estimate the heterogeneous supply response. Since the ecological, economic, regulatory, and production environments vary spatially, this study also studies the implications of supply response within a heterogeneous framework relative to pooled supply response models.

## Master Thesis

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**Title:** *Mechanization Potential for Expanding Fruit and Vegetable Enterprises*

**Supervisors:** Dr. William Edwards and Dr. Georgeanne Artz

**description:** The goal of the thesis was to identify expansion potential, post-expansion machinery needs and provide guidance to growers in terms of labor and machine selection. I conducted both quantitative and case study analysis on small fruit and vegetable growers to summarize the industry and constructed a dynamic linear program to help better identify expansion potential of small fruit and vegetable farms within Iowa.

## Accepted Works (Peer Reviewed)

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Pates, N.J. & Hendricks, N.P., Additionality in Payments for Environmental Services with Technology Diffusion (Accepted 2019: *American Journal of Agricultural Economics*)

## Extension Articles

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Pates, N. & Artz, G. "Potential for Machinery: A Case Study of Fruit and Vegetable Growers in Iowa."(2014). *Leopold Center Pubs and Papers*. 20.

Available at: [www.leopold.iastate.edu/sites/default/files/pubs-and-papers/2014-01-potential-machinery-case-study-fruit-and-vegetable-growers-iowa.pdf](http://www.leopold.iastate.edu/sites/default/files/pubs-and-papers/2014-01-potential-machinery-case-study-fruit-and-vegetable-growers-iowa.pdf)

## Works in Progress

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Pates, N.J., Kim, G, Mark, T., & Ritter, M., "Does Wind Blow Up Farmland Prices in the U.S.?"

Pates, N.J. & Hendricks, N.P. "The Impact of the Renewable Fuels Standard on Corn Acreage"

Pates, N.J., "An Analysis of the Intra-Seasonal Field Crop Yield-Price Relationship in the US"

Pates, N.J., "Estimating the Local Impact of Ethanol Plants on Cropland Transitions"

Pates, N.J., "Estimating Heterogeneous Corn Supply Response to Price"

Pates, N.J. & Yeager, E., "An Analysis of Hard Red Winter Wheat Convergence in Local Delivery Points"

Harris, K., Pates, N.J., & Zereyesus, Y., "DEA Malmquist Productivity Measure Among Firms in the Food Economy "

## Presentations and Posters

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Pates, N.J. & Hendricks, N.P. "Estimating the Local Impact of Ethanol Plants on Cropland Transitions" Poster Session, Agricultural and Applied Economics Association meetings, Atlanta, GA, July 21-23, 2019 (Forthcoming)

Pates, N.J. "Estimating Heterogeneous Corn Price Response in the United States" Selected Presentation, Agricultural and Applied Economics Association meetings, Washington, DC, August 5-7, 2018

Pates, N.J. & Yeager, E. "An Analysis of Hard Red Winter Wheat Convergence in Local Delivery Points" Poster Session, Agricultural and Applied Economics Association meetings, Washington, DC, August 5-7, 2018

Pates, N.J. "An Analysis of Strategy Shifts Among Kansas Crop Farmers" Selected Presentation, Agricultural and Applied Economics Association meetings, Chicago, IL, July 29-August 2, 2017

Pates, N.J. & Hendricks, N.P. "Additionality in Payments for Environmental Services with Technology Diffusion" Selected Presentation, Agricultural and Applied Economics Association meetings, Boston, MA, July 31-August 2, 2016

## Research Experience

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Postdoctoral Researcher (University of Kentucky): (Spring 2019-Present)

Graduate Research Assistant (Kansas State University): (Fall 2014-Fall 2018)

Graduate Research Assistant (Iowa State University): (Fall 2011-Spring 2013)

## Teaching Experience

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Co-Instructor, Kansas State University. AGEC 701: "Introduction to Computer Decision Tools for Agribusiness", Fall 2017.

Instructor, Kansas State University. AGEC 420: "Commodity Futures", Spring 2017.

Instructor, Kansas State University. AGEC 115: "Decision Tools for Agricultural Economics and Agribusiness", Fall 2015.

Teaching Assistant, Kansas State University. AGEC 115: "Decision Tools for Agricultural Economics and Agribusiness" (with Orlen Grunwald), Spring 2015.

Teaching Assistant, Kansas State University. AGEC 701: "Introduction to Computer Decision Tools for Agribusiness" (with Jeffery Williams), Fall 2015-Fall 2017.

Teaching Assistant, Kansas State University. AGEC 501: "Data Analysis and Optimization." (with Jason Bergtold), Fall 2014.

## Reviewer Experience

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*PLOS ONE*

## Private Sector Experience

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**US Bank-Service Center (Fargo, ND):** *Business Operations Analyst (Nov. 2013–Aug. 2014)*

## Honors and Awards

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Kansas State University Agricultural Economics Department Outstanding Doctoral Dissertation: (2018)

Kansas State University Agricultural Economics Department Scholarship: (2016)

Timothy R. Donoghue Graduate Scholarship (Kansas State University): (2014-2015)

Kansas State University Graduate Students of Ag. Economics Treasurer: (Spring 2015– Fall 2017)

Upper Class Economics Department Academic Scholarship (Minnesota State University Moorhead): (2009)

## Computer Skills

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**Programming:** R, Matlab, Stata, Excel (VBA), Eviews, GAMS, LIMDEP/NLOGIT, QGIS, GRASS

**Publishing:** L<sup>A</sup>T<sub>E</sub>X, Sublime Text, Word

**Data Search:** Lexus Nexus, Compustat, Bloomberg Terminal, SQL, API

## Department

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Search committee member for Asst/Assoc Professor, 2015 (Kansas State University)

## Areas of Interests

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**Production Economics:**

**Technology Adoption:**

**Land Economics:**

**Big Data/Statistical Learning:**

## Personal Interests

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**Hunting/Fishing:** I grew up hunting and fishing in North Dakota and Minnesota. When I have a long weekend free during the season I like to go pheasant and grouse hunting.