

# Nicholas Pates

Home: 2101 Prairie Glen Pl. – Mahanattan, KS – 66502

📞 (701) 793 1910 • ✉ njpates@ksu.edu

*PhD. Candidate Kansas State University*

## Education

---

### Kansas State University

*PhD. Agricultural Economics,*

**Manhattan, KS**

*2014–Present (Expected Fall 2018)*

### Iowa State University

*MS Economics,*

**Ames, IA**

*2011–2013*

### Minnesota State University Moorhead

*BA Economics (Minors in Math and Finance),*

**Moorhead, MN**

*2006–2011*

## PhD Dissertation

---

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

I am currently working on a project for estimating 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 will employ both conventional and contemporary machine learning 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

---

**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.

## Extension Articles

---

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 Review

---

Pates, N.J. Hendricks, N.P., Additionality in Payments for Environmental Services with Technology Diffusion (2<sup>nd</sup> Revisions: *American Journal of Agricultural Economics*)

## Works in Progress

---

Pates, N.J., An Analysis of Strategy Shifts Among Kansas Crop Farmers

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

## Presentations and Posters

---

Pates, N. "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. & 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. "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. & N.P. Hendricks. "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

---

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

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

## Teaching Experience

---

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. AGE 501: "Data Analysis and Optimization."  
(with Jason Bergtold), Fall 2014.

## Reviewer Experience

---

*PLOS ONE*

## Private Sector Experience

---

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

## Honors and Awards

---

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

---

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

**Publishing:**  $\LaTeX$ , Sublime Text, Word

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

## Department

---

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

## Areas of Interests

---

**Production Economics:**

**Technology Adoption:**

**Big Data/Statistical Learning:**

## Personal Interests

---

**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.