

Nicholas Pates

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Assistant Professor, University of Kentucky

Professional

University of Kentucky
Assistant Professor,

Lexington, KY
Jul. 1st 2020–Present

University of Kentucky
Postdoctoral Researcher,

Lexington, KY
Jan. 2019– Jun. 2020

Education

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

(D) doctoral student collaborator, (M) masters student collaborator

Accepted Works (Peer Reviewed)

Lark, T.J., Hendricks, N.P., **Pates, N.J.**, Smith A., Spawn, S.A., Bougie M., Booth, E., Kucharik, C.J., & Gibbs, H.K., (2022). "Impacts of the Renewable Fuel Standard on America's Land and Water Resources" *Proceedings of the National Academy of Sciences (PNAS)* vol 119(9), pp.(e2101084119)

Pates, N.J., Hendricks, N.P., (2021). "Fields from Afar: Evidence of Heterogeneity in United States Corn Rotational Response from Remote Sensing Data," *American Journal of Agricultural Economics*, vol 103(5), pp. 1756-1782

Kim, G., Nemati, M., Buck S., **Pates N.J.**, & Mark, T.B., (2020) "Recovering Forecast Distributions of Crop Composition: Method and Application to Kentucky Agriculture," *Sustainability*, vol 12(7)

Pates, N.J. & Hendricks, N.P., (2020) "Additionality in Payments for Environmental Services with Technology Diffusion," *American Journal of Agricultural Economics*, vol 102(1), pp. 281-299

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

Grants and Funded Projects

PI, Impacts of Solar Installations on Local Farmland Values, *USDA/ERS* (Awarded Jul. 2022)

Co-PI, Assessing Opportunities and Challenges of the Plant-Based Meat Alternatives: Consumer Preferences, Market Trends, and Production Responses, *USDA/NIFA* (Awarded Nov. 2021)

Works in Progress

Dennis, E., Pates, N.J., Tack , J.B., & Hendricks, N.P. "Soil Conditioned Climate Effects Matter when Modeling Crop Yields"

Pates, N.J., Kim, G, Mark, T., & Ritter, M., "Windfalls or wind falls? The Local Effects of Turbine Development on US Agricultural Land Values"

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

Pates, N.J., Hendricks, N.P., & Lark, T.J. "Estimating the Local Impact of Ethanol Plants on Cropland Transitions"

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

Pates, N.J., Ramsey, S.L, & Mark, T.B. "The Prospects of Panels: Impacts of Solar Installations on Local Farmland Values" Selected Poster, Agricultural and Applied Economics Association Meetings. Kansas City, MO August 10-11, 2022

Erol, E. ^(P), Pates, N.J., & Burdine, K. "Forecasting Farm Level Beef-Cattle Prices in the Southern United States: A Model Selection Framework" Selected Presentation, Southern Agricultural Economics Association Annual Meeting. Anaheim, CA, July 31 - August 2, 2022

Cummings, L.G.^(M), Pates, N.J., Nolan, D.T., & Mark, T.B. "Farm Level Impact of Adopting MCP in the Southeast FMMO" Selected Presentation, Southern Agricultural Economics Association Annual Meeting. Virtual, February 7-9, 2021

Pates N.J., Mark T. B., Kim G., & Ritter M. "Windfalls or Wind Falls? The Local Effects of Turbine Development on US Agricultural Land Values" Selected Presentation, Agricultural and Applied Economics Association Meetings. Kansas City, MO August 10-11, 2020

Pates N.J. & Mark T.B. "Mid-Season Production Throttles: An Analysis of the Intra-Seasonal Field Crop Yield-Price Relationship in the US" Selected Presentation, Southern Agricultural Economics Association Annual Meeting. Louisville, Kentucky, February 1-4, 2020

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

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

(*M: Masters student, P: PhD. student*)

Invited Seminars and Presentations

"Mid-Season Production Throttles: An Analysis of the Intra-Seasonal Field Crop Yield-Price Relationship in the US", Louisiana State University (Invited: 2020, Delayed Due to COVID 19)

"Estimating Heterogeneous Corn Price Response in the United States", North Dakota State University, Fargo, ND, Nov. 15th, 2019

"Estimating Heterogeneous Corn Price Response in the United States" South Dakota State University, Brookings, SD, Nov. 8th, 2019

Research Experience

Assistant Professor (University of Kentucky): (Summer 2020-Present)

Postdoctoral Researcher (University of Kentucky): (Spring 2019-Summer 2020)

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

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

Instructional Experience

Instructor, University of Kentucky. AEC 500 "Quantitative Topics in Agricultural Economics", Fall 2022

Instructor, University of Kentucky. AEC 302 "Farm Management Principles", Fall 2021-2022

Instructor, University of Kentucky. AEC 620-001: "Advanced Production Economics", Fall 2020-2021

Guest Lecturer, University of Kentucky. AEC 620-001: "Advanced Production Economics", Fall 2019.

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

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

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

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

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

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

Reviewer Experience

American Journal of Agricultural Economics (AJAE)

Applied Economic Perspectives & Policy (AEPP)

The Journal of Environmental Economics and Policy Studies (JEEP)

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 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

Programming: R, Matlab, Stata, Excel (VBA), JavaScript, Eviews, GAMS, LIMDEP/NLOGIT, QGIS, GRASS, Emacs, Vim, Linux, Slurm, Python

Publishing: L^AT_EX, Sublime Text, Word

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

Department/Service

Member: UKY Department of Agricultural Economics Graduate Committee (2020-Present)

Member: Post-Doc Search Committee Member/Chair (2021) (JingFang Zhang, Keehyun Lee)

Treasurer: Applied Risk Analysis Section (AAEA) (Elected 2022)

Member: Search Committee for Asst/Assoc Professor, 2015 (Kansas State University)

Areas of Interests

Production Economics:

Technology Adoption:

Land Economics:

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.