

Terry Wayne Griffin

1308 Oscar Dr
Bryant, AR 72022

terry.griffin@comcast.net
501.249.6360

Dr. Griffin has been active in the precision agriculture community since the mid-1990's; and has attended each ICPA since 1998. The majority of his career has been university Extension and outreach but more recently a mix of private industry and public research. As an agronomic economist and spatial econometrician, he has analyzed large recombinant datasets for spatial econometric, predictive forecasting, and risk management projects. Terry authored a patent based on his doctoral research on yield monitor data analysis by automating the spatial analytic processes thereby replacing the human interaction with an algorithm. He has used GIS for research and practical applications since 1998; and has co-authored white papers such that other scientists can follow procedures. As an academic, my team(s) secured extramural funding of over \$1.2 M, while \$90K was as sole principal investigator. Currently, Terry is working on big data projects by aggregating agricultural data across multiple sources with recombinant data to develop machine algorithms using reflectance data.

EDUCATION

Ph.D. Agricultural Economics, 2006 *Purdue University* - West Lafayette, IN

M.S. Agricultural Economics, 1999 *University of Arkansas* - Fayetteville, AR

B.S. Agronomy, 1997 *University of Arkansas* - Fayetteville, AR

EXPERIENCE

Griffin Consulting (2005 – present) Numerous clients, speaking engagements, expert testimony
Data analytics, algorithm development. Public presentations on Big Data analytics, data privacy.

Vice President – Applied Economics (January 2012 – September 2013)

Cresco Ag LLC, Memphis, TN

Associate Professor - Economics (July 2011– January 2012)

Assistant Professor - Economics (December 2006 – June 2011)

University of Arkansas - Division of Agriculture - Little Rock, AR

Department of Agricultural Economics and Agribusiness - Fayetteville, AR

Instructor (2000 – 2003)

Agriculture Department, Western Illinois University

Extension Educator - Farm Business Management and Marketing

University of Illinois Extension (1999 - 2003)

Part owner/operator - Griffin Farms, Paragould, Arkansas, USA

SERVICE

Arkansas Crop Protection Association; Current Past President 2014; Executive Council 2008-2014

Mid-South Chapter of American Society of Farm Managers and Rural Appraisers; Board 2008-2014

Working Group on Precision Agriculture, University of Arkansas Division of Agriculture

Team Coordinator 2011-2012

PM-54 Precision Agriculture Committee - American Society of Agricultural and Biological Engineers

9th European Conference on Precision Agriculture, Scientific Committee Member

10th International Conference on Precision Agriculture; Chair - Optimizing Use of Spatial Technologies

Arkansas County Agricultural Agents Association; Board Member 2008-2011

Alpha Gamma Rho Agricultural Fraternity – Alpha Iota Chapter Alumni Board member: 2008 – 2010

TEACHING

Purdue University, AGEC690b Spatial Econometrics: Theory and Practice Spring 2006

University of Arkansas, AGEC4113 Agricultural Price Analysis and Forecasting Spring 2009

AWARDS

2012 Precision Ag Researcher of the Year from Conservation Systems
 2010 PrecisionAg Award of Excellence Educator/Researcher of the Year
 2003 National Winner NASA Excellence Award Remote Sensing and Precision Agriculture, NACAA
 2002 National Winner NASA GIS and Remote Sensing Decision Support Seminar, NACAA

RESEARCH AND PATENTS

Patents

Computer-Automated Spatial Analysis. Patent application filed March 8, 2010. Serial No. 12/719,154

Book chapters

Griffin, T.W. 2010. The Spatial Analysis of Yield Data. In M. Oliver (Ed.) Geostatistical Applications for Precision Agriculture. Springer.

Publications (selected publications below)

13 peer reviewed journal articles; 3 currently in second review. Dozens of conference paper presentations

Griffin, T.W. and Mark, T.B. 2014. Value of Connectivity in Rural Areas: Case of Precision Agriculture Data. International Conference on Precision Agriculture. July 20-23, 2014. Sacramento, CA.

Spurlock, T., Rothrock, C., Monfort, W.S., **Griffin, T.W.** 2014. Disease scouting for Aerial blight based on logical areas of collection in soybean fields rotated with rice. International Conference on Precision Agriculture. July 20-23, 2014. Sacramento, CA.

Griffin, T.W., Barnes, E., Andrade-Sánchez, P., Arnall, B., Balkcom, K., Barber, L.T., Bauer, P., Brooks, P.A., Bronson, K., Buschermohle, M., Jones, A., Ge, Y., Roberson, G., Taylor, R., Tubana, B., Varco, J., Vellidis, G., Vories, E., Wilkerson, J. Yin, Xinhua. 2014. Pooled Analysis of Combined Primary Data across Multiple States and Investigators for the Development of a NDVI-Based On-the-go Nitrogen Application Algorithm for Cotton. American Society of Agricultural and Biological Engineers Annual International Meeting. July 13-16, 2014 Montreal, Quebec Canada.

Liu, Z., **Griffin, T.W.**, and Kirkpatrick, T.L. 2014. Statistical and Economic Techniques for Site-specific Nematode Management. *Journal of Nematology* Mar 2014; 46(1): 12–17.

Meyer-Aurich, Andreas, **Griffin, Terry W.**, Herbst, Ruprecht, Giebel, Antje, and Muhammad, Nawaz. 2010. Spatial econometric analysis of a field-scale site-specific nitrogen fertilizer experiment on wheat (*Triticum aestivum* L.) yield and quality. *Computers and Electronics in Agriculture*. Vol 74 (1) pp 73-79.

Griffin, T.W., Dobbins, C.L., Florax, R.J.G.M., Lowenberg-DeBoer, J.M., Vyn, T.J. 2010. Spatial Analysis of Precision Agriculture Data: Role for Extension. *National Association of County Agricultural Agents Journal*. 3 (1) July

Griffin, T.W., Mark, T.B., Dobbins, C.L., and Lowenberg-DeBoer, J. 2009. Whole Farm Profitability Impact from Implementing and Harvesting On-farm Trials with Precision Agriculture Technologies. In *Proceedings of the 17th International Farm Management Congress*, Bloomington, IL, July 19-24, 2009. 12 pp.

Griffin, T.W., Dobbins, C.L., Vyn, T., Florax, R.J.G.M. and Lowenberg-DeBoer, J. 2008. Spatial analysis of yield monitor data: Case studies of on-farm trials and farm management decision-making. *Precision Agriculture*, 9(5), 269-283.

Griffin, T.W. 2009. Farmers' Use of Yield Monitors. University of Arkansas Division of Agriculture Factsheet FSA36.

Griffin, T.W. 2009. Adoption of Yield Monitor Technology for Crop Production. University of Arkansas Division of Agriculture Factsheet FSA37

Griffin, T.W., Brown, J.P., and Lowenberg-DeBoer, J. 2007. Yield Monitor Data Analysis Protocol: A Primer in the Management and Analysis of Precision Agriculture Data. Purdue University Site-specific Management Center.

Griffin, T.W., Lambert, D.M., and Lowenberg-DeBoer, J. 2005. Economics of Lightbar and Auto-Guidance GPS Navigation Technologies. In *Precision Agriculture 2005*, J.V. Stafford, ed., pp. 581-87. Wageningen Academic Publishers, Wageningen, Netherlands

Griffin, Terry, and J. Lowenberg-DeBoer, Worldwide Adoption and Profitability of Precision Agriculture: Implications for Brazil, *Revista de Política Agrícola*, 14:4 (2005), p. 20-37