

## Octavio A. Ramirez, Ph.D.

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### Education

- 1988-1990: **Doctor of Philosophy** in Food and Resource Economics, University of Florida, Gainesville, FL.
- 1986-1987: **Master of Science** in Food and Resource Economics, University of Florida, Gainesville, FL.
- 1985-1986: **Bachelor of Science in Agriculture**, University of Florida, Gainesville, FL. Major: Food and Resource Economics.
- 1982-1984: **Agronomist**, Panamerican Agricultural School, El Zamorano, Honduras.

### Professional Experience

**June 2008 to Present:** *Professor and Head*, Department of Agricultural and Applied Economics, University of Georgia, Athens, GA.

**June 2003 to May 2008:** *Professor and Head*, Department of Agricultural Economics and Agricultural Business, New Mexico State University, Las Cruces, NM.

**September 1998 to May 2003:** *Associate Professor*, Department of Agricultural and Applied Economics, Texas Tech University, Lubbock, TX.

**June 1995 to August 1998:** *Head*, Environmental Economics and Sociology Area, Tropical Agricultural Research and Education Center (CATIE), Costa Rica.

**January 1993 to May 1995:** *Team Leader*, Integrated Pest Management Project, Tropical Agricultural Research and Education Center (CATIE), Costa Rica.

**August 1990 to December 1992:** *Agricultural Economist*, Integrated Pest Management Project, Tropical Agricultural Research and Education Center (CATIE), Costa Rica.

**June 1986 to July 1990:** *Research Assistant*, Food and Resource Economics Department, University of Florida, Gainesville, FL.

**January 1985 to December 1985:** *Instructor*, Entomology, Plant Pathology, Weed Science and Integrated Pest Management. Panamerican Agricultural School, El Zamorano, Honduras.

## **Research**

### ***Refereed Journal Articles:***

Leiva, B., O.A. Ramirez, and J. Schramski (2018). "Exploring the economic importance of energy through an energy transfer-based optimization framework." Forthcoming in 2019 at *The Energy Journal*.

Ye, S., B. Karali and O.A. Ramirez (2018). "Event Study of the Crude Oil Futures Market: An Application of the Distributional Event Response Model." Forthcoming in 2019 in the *American Journal of Agricultural Economics*.

Awondo, S.N., Ramirez, O.A., Datta, G.S., Colson, G. & Fonsah, E.G. "Estimation of Crop Yields and Insurance Premiums Using a Shrinkage Estimator." *North American Actuarial Journal*, Volume 22, 2018 - Issue 2. Published Online: 06 Apr 2018

Ramirez, O.A. and J.S. Shonkwiler (2017). "A Probabilistic Model of the Crop Insurance Purchase Decision." *Journal of Agricultural and Resource Economics* 42(1):10-26.

Awondo, S.N., O.A. Ramirez, G. Colson, G. Fonsah and G. Kostandini (2017). "Self-Protection from Weather Risk using Improved Maize Varieties or Off-Farm Income and the Propensity for Insurance." *Agricultural Economics* 48(1):61–76.

Ramirez, O.A., C.A. Carpio and A.J. Collart (2015). "Are the Federal Crop Insurance Subsidies Equitably Distributed? Evidence from a Monte Carlo Simulation Analysis." *Journal of Agricultural and Resource Economics* 40(3)1-19.

Colson, G., G. Melo and O.A. Ramirez (2015) "Survey Evidence on Legal and Illegal Hispanic Immigrants' Perceptions of Living and Working in US Agriculture" *AgBioForum* 18(3)259-265.

Melo, G., G. Colson, O.A. Ramirez and S. Fu (2014). "Hispanic American Opinions toward Immigration and Immigration Policy Reform." *Applied Economic Perspectives & Policy* 36(4):604-622.

Karali, B. and O.A. Ramirez (2014). "Macro Determinants of Volatility and Volatility Spillover in Energy Markets." *Energy Economics* 46:413-421.

Ramirez, O.A., J. Mullen and A.J. Collart (2014). "Insights into the Appropriate Level of Disaggregation for Efficient Time Series Model Forecasting." *Journal of Applied Statistics* 41(10):2298-2311.

Colson, G., O.A. Ramirez and S. Fu (2014). "Crop Insurance Savings Accounts: A Viable Alternative to Crop Insurance?" *Applied Economic Perspectives & Policy* 36(3):527-545.

Ramirez, O.A. and G. Colson (2013). "Can We do Better than Crop Insurance? The Case for Farmer Owned Crop Insurance Savings Accounts." *Choices*, 28(3):1-4.

Ferrer, C.M, G.C.W. Ames, E.G. Fonsah and O.A. Ramirez (2013). "Factors Associated with the National School Lunch Program and Childhood Food Insecurity in the U.S." *Journal of Agribusiness* 31(1): 77-92.

Ramirez, O.A. and C.A. Carpio (2012). "Premium Estimation Inaccuracy and the Performance of the US Crop Insurance Program." *Agricultural Finance Review* 72 (1):117-133.

Ramirez, O.A., C.A. Carpio and R. Rejesus (2011). "Can Crop Insurance Premiums Be Reliably Estimated?" *Agricultural and Resource Economics Review* 40(1):81-94

Carpio, C.E, Ramirez O.A. and T. Boonsaeng (2011). "Potential for Tradable Water Allocation and Rights in Jordan." *Land Economics* 87:595-609.

Ramirez, O.A., F. Ward, R. Al-Tabini and R. Phillips (January 2011). "Efficient Water Conservation in Agriculture for Growing Urban Water Demands in Jordan." *Water Policy*, 13:102–124

Torell, L.A., S. Murugan and O.A. Ramirez (July 2010). "Economics of Flexible Versus Conservative Stocking Strategies to Manage Climate Variability Risk." *Rangeland Ecology and Management*, 63(4):415-425.

Ramirez, O.A., T.U. McDonald and C.A. Carpio (May 2010). "A Flexible Parametric Family for the Modeling and Simulation of Yield Distributions." *Journal of Agricultural and Applied Economics*, 42(2):1-17.

Ramirez, O.A. (April 2009). "The Asymmetric Cycling of U.S. Soybeans and Brazilian Coffee Prices: An Opportunity for Improved Forecasting and Understanding of Price Behavior." *Journal of Agricultural and Applied Economics*, 41(1):253-270.

Lu, Y., O.A. Ramirez, R.M. Rejesus, T.O. Knight, and B.J. Sherrick (April 2008). "Empirically Evaluating the Flexibility of the Johnson Family of Distributions: A Crop Insurance Application." *Agricultural and Resource Economics Review*, 37(1):79-91.

Ramirez, O.A. and T. McDonald (November 2006). "Ranking crop yield models: a comment." *American Journal of Agricultural Economics*, 88(4):1105-1110.

Torell, L.A., N.R. Rimbey, O.A. Ramirez and D.W. McCollum (December 2005). "Income Earning Potential Versus Consumptive Amenities in Determining Ranchland Values." *Journal of Agricultural and Resource Economics*, 30(3):537-560.

Fadiga M.L., S.K. Misra, and O.A. Ramirez. "U.S. Consumer Purchasing Decisions and Demand for Apparel." *Journal of Fashion Marketing and Management*, 9(4):367-379.

Ramirez, O.A., S. Mohanty, C.E. Carpio, and M. Denning(August 2004). "Issues and Strategies for Aggregate Supply Response Estimation for Policy Analyses." *Journal of Agricultural and Applied Economics*, 36:(2351-367.

Ramirez, O.A., S.K. Misra, and J. Nelson (November 2003). "Efficient Estimation of Agricultural Time Series Models with Non-Normal Dependent Variables." *American Journal of Agricultural Economics*, 85(4):1029-1040.

Ramirez, O.A. and M. Fadiga (April 2003). "Forecasting U.S. Agricultural Commodity Prices with Asymmetric-Error GARCH Models." *Journal of Agricultural and Resource Economics*, 28(1):71-85.

Field, J.E., S.K. Misra, and O.A. Ramirez (April 2003). "Evaluating Crop and Revenue Insurance Product as Risk Management Tools for Texas Cotton Producers." *Journal of Agricultural and Applied Economics*, 35(1):39-52.

Willis, D.B., M.D. Britt, and O.A. Ramirez (2003). "Electricity Rates, Input Use and Irrigated Cotton Profitability: A Hedonic Versus a Traditional Profit Maximization Approach." *Texas Journal of Agriculture and Natural Resources*, 16:64-74.

Ramirez, O.A., S.K. Misra, and J.E. Field (February 2003). "Crop Yield Distributions Revisited." *American Journal of Agricultural Economics*, 85(1):108-120.

Britt, M.L., O.A. Ramirez, and C.A. Carpio (December 2002). "Effects of Quality Considerations and Climate Information on the Management and Profitability of Cotton Production in the Texas High Plains." *Journal of Agricultural and Applied Economics*, 34(3):561-584.

Ramirez, O.A., C.E. Carpio, R. Ortiz and B. Finegan (January 2002). "Economic Value of the Carbon Sink Services from Costa Rican Secondary Forests." *Environmental & Resource Economics*, 21(1):23-46.

Carpio C.A. and O.A. Ramirez (September 2001). "Estudios económicos sobre la mitigación del dióxido de carbono atmosférico en Latinoamérica." *Revista Asturiana de Economía (The Asturian Journal of Economics)*, 21:73:100.

Ramírez, O.A. and E. Somariba (January 2001). *Theobroma cacao L – Cordia alliodora (R&P) Oken – Musa ABB Agroforestry Systems: Financial Returns, Stability and Risk. Agroforestry Systems*, 51(2): 141-154.

Ramirez, O.A., S. Shultz, R.R. Hearne and M. Gomez (December 2000). "Una revisión de modelos econométricos para explicar la adopción de diferentes tecnologías de manejo agrícola y de los recursos naturales por productores pequeños en Centroamérica." *Revista Forestal Centroamericana (The Central American Forestry Journal)*, 32(4):21-26.

Ramirez, O.A. and E. Somarriba (December 2000). "Risk and Returns of Diversified Cropping Systems under Non-Normal, Cross and Autocorrelated Commodity Price Structures." *Journal of Agricultural and Resource Economics*, 25(2):653-668.

Ramirez, O.A. (August 2000). "Parametric Modeling and Simulation of Joint Price-Production Distributions under Non-Normality, Autocorrelation and Heteroskedasticity: A Tool for Assessing Risk in Agriculture." *Journal of Agricultural and Applied Economics* 32(2):283-297.

Ramírez, O.A. and R. Sosa (July 2000). "Assessing the Financial Risks of Diversified Coffee Production Systems: An Alternative Non-Normal CDF Estimation Approach." *Journal of Agricultural and Resource Economics*, 25(1):267-285.

Ramírez, O.A. and S. Shultz (April 2000). "Poisson Count Models to Explain the Adoption of Agricultural and Natural Resource Management Technologies by Small Farmers in Central America." *Journal of Agricultural & Applied Economics*, 32(1):21-33.

Ramírez, O.A., L. Rodriguez, B. Finegan, and M. Gómez (September 1999). "Implicaciones económicas del almacenamiento del CO<sub>2</sub> en bosques naturales." *Revista Forestal Centroamericana (The Central American Forestry Journal)*, 27:10-16.

López, D.M., E. Somarriba and O.A. Ramírez (July 1999). "Turnos óptimos de renovación de cafetales con sombra de poró (*Erythrina poeppigiana*) y pleno sol." *Agroforestería en las Américas (Agroforestry in the Americas)*, 23:30-34.

Ramírez, O.A. and M. Gómez (July 1999). "Estimación y valoración económica del almacenamiento de carbono." *Revista Forestal Centroamericana (The Central American Forestry Journal)*, 27:17-23.

Ramírez, O.A. and J.L. Saunders (April 1999). "Estimating Economic Thresholds for Pest Control: An Alternative Methodology." *Journal of Economic Entomology*, 92:391-401.

Ramirez, O.A. and M. Gómez (December 1998). "Economic Value of the Carbon Sink Services of Costa Rica's Forestry Plantations." *Environmental Forest Science* 54:129-138.

Ramirez, O.A. and J.L Saunders (December 1998). "Una metodología para determinar criterios económicos de decisión en el control de plagas." *Manejo Integrado de Plagas (Integrated Pest Management)*, 50:1-18.

Ramírez, O.A., Moss C. and Boggess, W. (1997). "A Stochastic Optimal Control Formulation of the Consumption/Debt Decision." *Agricultural Finance Review*, 57:29-38.

Ramírez, O.A. (February 1997). "Estimation and Use of a Multivariate Parametric Model for Simulating Heteroscedastic, Correlated, Non-Normal Random Variables: The Case of Corn-Belt Corn, Soybeans and Wheat Yields." *American Journal of Agricultural Economics*, 79:191-205.

Pérez, O., O.A. Ramírez, L. Hilje and J. Karremans (March 1997). "Potencial de adopción de dos opciones tecnológicas de manejo integrado de plagas (MIP), aplicando tres técnicas de extensión con productores de tomate en el valle central occidental, Costa Rica." *Manejo Integrado de Plagas (Integrated Pest Management)*, 43:19-30.

Gómez, M., S. Shultz and O.A. Ramírez (January 1997). "Contribución de las plantaciones forestales a las cuentas nacionales de Costa Rica." *Revista Forestal Centroamericana (The Central American Forestry Journal)*, 18:38-44.

Ramírez, O.A. and J.D. Mumford (July 1996). "Formulación de políticas fitosanitarias en América Central." *Manejo Integrado de Plagas (Integrated Pest Management)*, 40:24-34.

Ramirez, O.A. and J.D. Mumford (1995). "The Role of Public Policy in Implementing IPM." *Crop Protection*, 14: 565-572.

Ramírez, O.A. (December 1994). "Generación de tecnologías de manejo integrado de plagas (MIP) para su implementación en América Central." *Manejo Integrado de Plagas (Integrated Pest Management)*, 34:31-35.

Ramirez, O.A., C.B. Moss, and W.G. Boggess (1994). "Estimation and Use of the Inverse Hyperbolic Sine Transformation to Model Non-Normal Correlated Random Variables." *Journal of Applied Statistics* 21(4): 289-305.

Quirós, C.A., O.A. Ramírez and L. Hilje (December 1994). "Participación de los agricultores en adaptar y evaluar tecnologías de semilleros contra la mosca blanca *Bemisia tabaci* en tomate, en Alajuela, Costa Rica." *Manejo Integrado de Plagas*, 34:1-7.

Ramirez, O.A., J. Simán and G. Calvo (June 1992). "Metodología para clasificar grupos de productores agrícolas en niveles tecnológicos relevantes." *Ceiba*, 33(1):343-355.

Ramirez, O.A. (June 1992). "Metodología para la determinación de umbrales de acción: Errores del pasado y perspectivas para el futuro." *Ceiba*, 33(1):331-343.

**Grants Funded (contracts over \$50,000 only):**

Afghanistan Water and Agricultural Technology Transfer (AWATT) Project. Funding level: \$20 million (FY08-10). Role: Member of the team that developed and initiated the project while at New Mexico State University (NMSU), implementation team member after departing NMSU.

Cochran Fellowship Training Program. Funding source: USDA/FAS. Funding level: \$127,314 (FY07-08). Role: Program Director.

Iraq Agricultural Extension Revitalization Project – NMSU Component. Funding source: State Department through USDA/FAS. Funding level: \$822,000 (FY06-08). Role: Co-Principal Investigator and NMSU Component Coordinator.

IALC Sustainable Development of Drylands in Asia and the Middle East Project, Jordan Component: Business and Socioeconomic Assessment of Water and Products for Community-Based Projects. Funding source: United States Agency for International Development. Funding level: \$800,000 (FY06-08). Role: Project Director.

Probability Distribution Function Models for Risk Analysis and their Application to Crop Insurance Premium Rate Setting. Funding source: USDA/NRI Competitive Grants Program. Funding level: \$185,000 (FY04-07). Role: Principal Investigator.

Center for North American Studies – New Mexico Component: Improving the National and Global Economic Competitiveness of New Mexico's Agriculture. Funding source: USDA/CSREES. Funding level: \$318,000 (FY04-06). Role: Project Director.

IALC Sustainable Development of Drylands in Asia and the Middle East Project, Yemen Component: Human Resource Development. Funding source: U.S. Agency for International Development. Funding level: \$442,000 (FY03-05). Role: Project Director.

Structural Models for Policy Analysis of the U.S. and World Natural Fiber Markets. Funding source: USDA/CSREES. Funding level: \$375,650 (FY01-03). Role: Co-Principal Investigator.

Demand for U.S.-Made Cotton Apparel and its Implications for the Cotton Industry. Funding source: USDA/CSREES through the International Cotton Research Center (ICRC). Funding level: \$86,000 (FY01-02). Role: Co-Principal Investigator.

Management Strategies for Optimum Input Use, Yields and Quality of Cotton in the Texas High Plains. Funding source: USDA/CSREES - International Cotton Research Center (ICRC). Funding level: \$50,000 (FY99-00). Role: Co-Principal Investigator.

Risk and Returns in Cotton and Competing Crops in Texas: Implications for Industry and Policy Makers. Funding source: Texas State Legislature - Cotton Economics Research Line Item. Funding level: \$72,000 (FY99-03). Role: Principal Investigator.

Institutional Strengthening of Environmental Economics Research and Educational Capacities in Central America. Funding source: Swedish International Development Agency (SIDA). Funding level: \$300,000 (FY96-98). Role: Project Coordinator.

Regional Integrated Pest Management Research and Outreach Project. Funding Source: United States Agency for International Development (USAID). \$3.5 million (FY93-95). Role: Project Coordinator.

***Selected or Invited Presentations at Professional Conferences (last 10 years only):***

Ramirez, O.A. "Strategies for a Successful Job Interview in an Agricultural/Applied Economics Department. Invited panel presentation presented at the annual meeting of the Southern Agricultural Economics Association, February 2017, Jacksonville, Florida.

Leiva, B., O.A. Ramirez, and J. Schramski, "Mind the Gap: An Energy-Based Approach to Economic Decision-Making." Selected paper presented at the annual meeting of the Southern Agricultural Economics Association, February 2016, Atlanta, GA.

Awondo, S.N., O.A Ramirez, G. Colson, G. Konstandini and E.G. Fonsah, "Self-Protection from Weather Risk using Improved Maize Varieties and Off-Farm Income and the Propensity for Insurance." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, July 2015, San Francisco, CA.

Pena-Levano, L.M., O.A. Ramirez and M. Renteria-Pinon, "Efficiency Gains in Commodity Forecasting with High Volatility in Prices using Different Levels of Data Aggregation." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, July 2015, San Francisco, CA.

Melo, G., G. Colson and O.A. Ramirez. "Hispanic Immigrants' Opinions towards Immigration and Immigration Policy Reform." Selected poster at the annual meeting of the Agricultural and Applied Economics Association, July 2014, Minneapolis, MN.

Pena, L.M. and O.A. Ramirez. "Efficiency Gains in Cotton Price Forecasting Using Different Levels of Data Aggregation." Selected poster presented at the annual meeting of the Agricultural and Applied Economics Association, July 2014, Minneapolis, MN.

Ramirez, O.A, C.A. Carpio and A.J. Collart. "Producer Welfare Implications of the RMA's "Shrinkage" Crop Insurance Premium Estimator." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, July 2014, Minneapolis, MN.

Shiyu, Y., B. Karali and O.A Ramirez. "Event Study of Energy Price Volatility: An Application of Distributional Event Response Model." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, July 2014, Minneapolis, MN.

Awondo, S.N., O.A Ramirez, G.S. Datta and E.G. Fonsah. "Small Area Estimation of Insurance Premium and Basis Risk." Selected paper presented at the annual meeting of the Southern Agricultural Economics Association, February 2013, Orlando, Florida.

Ramirez, O.A. "Premium Estimation Inaccuracy and the Distribution of Crop Insurance Subsidies across Participating Producers." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, August 2013, Washington, D.C.

Pena-Levano, L.M., O.A. Ramirez and J. Houston. "Analysis of Efficiency Gains in Commodity Price Forecasting Using ARMA Models on Varying Aggregation Levels of Daily Cash Prices." Selected paper presented at the annual meeting of the Western Agricultural and Resource Economics Association, June 2012, Park City, Utah.

Ramirez, O.A. "Designing and Implementing Collaborative Metrics for Departments, Schools, and Colleges." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, August 2012, Seattle, WA.

Ramirez, O.A. "Conclusive Evidence on the Benefits of Temporal Disaggregation to Improve the Precision of Time Series Model Forecasts." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, August 2012, Seattle, WA.

Awondo, S.N., O.A. Ramirez, G.S. Datta and E.G. Fonsah. "Estimation of Crop Yield Distribution and Insurance Premium Using Shrinkage Estimator: A Hierarchical Bayes and Small Area Estimation Approach." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, August 2012, Seattle, WA.

Colson, G., S. Fu and O.A Ramirez. "Crop Insurance Savings Accounts." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, August 2012, Seattle, WA.

Ferrer, M.C., G.C.W. Ames, E.G. Fonsah, C.L Escalante and O.A. Ramirez. "Childhood Food Insecurity: Factors Associated with the National School Lunch Program in the U.S." Selected paper presented at the annual meeting of the Food Distribution Research Society, October 2012, San Juan, Puerto Rico.

Ramirez, O.A. and C.A. Carpio. "Premium Estimation Inaccuracy and the Actuarial Performance of the US Crop Insurance Program." Selected paper presented at the

annual meeting of the Agricultural and Applied Economics Association, July 2011, Pittsburgh, Pennsylvania.

Ferrer, M.C., E.G. Fonsah, O.A. Ramirez and C.L. Escalante. "Local Food Impacts on Health and Nutrition." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, July 2011, Pittsburgh, Pennsylvania.

Singh, A., B. Karali and O.A. Ramirez. "High price volatility and spillover effects in the energy markets." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, July 2011, Pittsburgh, Pennsylvania.

Ramirez, O.A. and J. Dorfman. "Improving Forecast Performance with Reduced Parameter, Large Order AR Models." Selected poster presented at the annual meeting of the Agricultural and Applied Economics Association, July 2010, Denver, Colorado.

Ramirez, O.A. "The Future of Agricultural Economics Departments: Are We Destined to be Merged?" Invited presentation to the National Agricultural Economics Administrators (NAAEA) Section at the annual meeting of the Agricultural and Applied Economics Association, July 2010, Denver, Colorado.

Carpio, C.E., O.A. Ramirez and T. Boonsaeng. "Potential for Tradable Water Allocation and Rights in Jordan." Selected paper presented at the annual meeting of the Southern Agricultural Economics Association, February 2010, Orlando, Florida.

Ramirez, O.A. "Measures of Departmental and Faculty Research Productivity, Performance Evaluation and Salary Raise Distribution Strategies." Invited presentation at the biennial meeting of the National Association of Agricultural Economics Administrators (NAAEA), September 2009, Washington, DC.

Ramirez, O.A. "El Funcionamiento del Programa de Seguros Agrarios en los Estados Unidos (The Performance of the U.S. Crop Insurance Program)" Invited presentation at the Department of Agribusiness, Panamerican Agricultural School, September 2009, El Zamorano, Honduras.

Ramirez, O.A. "Expanding Partnerships with CSREES." Invited presentation at the Organized Symposium on *Serving the Needs of the Next Generation of Resource Economics Leaders*, annual meeting of the Agricultural and Applied Economics Association, July 2009, Milwaukee, Wisconsin.

Ramirez, O.A., C.A. Carpio and R. Rejesus. "Can Crop Insurance Premiums be Reliably Estimated." Selected paper presented at the annual meeting of the Agricultural and Applied Economics Association, July 2009, Milwaukee, Wisconsin.

Ramirez, O.A. "The Future Global Environment for the U.S. Agricultural Industry." Invited presentation at the Georgia Agricultural Forecast Meetings. January 2009.

Ramirez, O.A. "Getting Involved: Steps to Becoming an Irresistible Applicant." Invited presentation at the Graduate Student Track Session, annual meeting of the American Agricultural Economics Association, July 2008, Orlando, Florida.

Lu, Y., O.A. Ramirez, R.M. Rejesus and T.O. Knight. "Empirically Evaluating the Flexibility of the Johnson Family of Distributions: A Crop Insurance Application." Paper presented at the 2007 *National Agricultural and Resource Economics Association* post-conference workshop on crop insurance.

Ramirez, O.A. and T. McDonald. "An Empirically-Grounded Comparison of the Johnson System versus the Beta as Crop Yield Distribution Models." Selected poster presented at the annual meetings of the American Agricultural Economics Association, July 2007, Portland, Oregon.

Ramirez, O.A. and H. Zapata. "Use of Asymmetric-Cycle Autoregressive Models to Improve Forecasting of Agricultural Time Series Variables." Paper presented at the annual meeting of the American Agricultural Economics Association, July 2006, Long Beach, California.

Ramirez, O.A. and T. McDonald. "The Expanded and Re-parameterized Johnson System: A Most Flexible Crop-Yield Distribution Model." Paper presented at the annual meeting of the American Agricultural Economics Association, July 2006, Long Beach, California.

Ramirez, O.A., S.K. Misra and J. Nelson. "Estimation of Efficient Regression Models for Applied Agricultural Economics Research." Paper presented at the annual meeting of the American Agricultural Economics Association, July 2002, Long Beach, California.

Britt, M.L. and O.A. Ramirez. "Probability Distribution Function Models of Regional Cotton Supply Response in the U.S." Paper presented at the annual meeting of the Southern Agricultural Economics Association, February 2002, Orlando, Florida.

Nelson, J., S.K. Misra and O.A. Ramirez. "An Empirical Investigation of the West Texas Cotton Basis. Paper presented at the annual meeting of the Southern Agricultural Economics Association, February 2002, Orlando, Florida.

Carpio. C.A. and O.A. Ramirez. "Supply Response of Cotton in India, Pakistan and Australia." Paper presented at the annual meeting of the Southern Agricultural Economics Association, February 2002, Orlando, Florida.

Willis, D.B., M.L. Britt and O.A. Ramirez. "Evaluating the Impact of Electric Utility Deregulation on Irrigated Cotton Production in the Texas High Plains." Paper presented at the annual meeting of the Southern Agricultural Economics Association, February 2002, Orlando, Florida.

Carpio, C.A. and O.A. Ramirez. "Forecasting Foreign Cotton Production: The Case of India, Pakistan and Australia." Paper presented and published in the proceedings of the 2002 Beltwide Cotton Conferences, January 2002, Atlanta, Georgia.

Willis, D.B., M.L. Britt and O.A. Ramirez. "Comparison of Cotton Management Practices Under Higher Electricity Prices." Paper presented and published in the proceedings of the 2002 Beltwide Cotton Conferences, January 2002, Atlanta, Georgia.

## **Teaching**

### ***Formal Courses Taught (last 10 years only):***

*Quantitative Techniques in Agricultural Economics* (AAEC 6610): a 3-credit-hour graduate-level course required for the M.S. degrees in Agricultural Economics, Environmental Economics and the Master of Agribusiness degree at The University of Georgia. It focuses on basic econometric techniques, including topics such as model specification and diagnostics, multicollinearity, heteroskedasticity, autocorrelation, qualitative choice models and simultaneity. Taught fall 2009-2017.

*Econometrics I* (AEEC 540): a 3-credit-hour graduate-level course required for the M.S. degree in Agricultural Economics and the M.A. degree in Economics at New Mexico State University. It focuses on basic econometric techniques (multiple regression), including topics such as model specification/diagnostics, multicollinearity, heteroskedasticity, autocorrelation. Taught spring 2004, 2005, 2006, 2007 and 2008.

*Applied Econometrics II* (AAEC 6311, previously AAEC 5311): a 3-credit-hour graduate-level course required for the Ph.D. degree in Agricultural and Applied Economics at Texas Tech University. It focuses on advanced econometric techniques, including maximum likelihood estimation of specialized economic models, simultaneous equation systems, and time series analysis. Taught summer 1999 and spring 2000, 2001 and 2002.

*Applied Econometrics I* (AAEC 5307): a 3-credit-hour graduate-level course required for the M.S. and Ph.D. degrees in Agricultural and Applied Economics at Texas Tech University. It focuses on basic econometric techniques, including topics such as model specification/diagnostics, multicollinearity, heteroskedasticity, autocorrelation, causality, as well as qualitative choice models. Taught fall 1998, 1999, 2000, and 2001.

*Mathematical Economics* (AAEC 4212): a 3-credit-hour undergraduate (senior-level) course required for the B.S. degree in Agricultural and Applied Economics at Texas Tech University. It focuses on quantitative (mathematical) procedures applied to basic economic analyses. Taught fall 1998, 1999, 2000, and 2001, and summer 2000.

**Graduate Student Advisement:**

Served as Major Professor (Master's Thesis or PhD Dissertation Director) of over 25 Master and PhD students and in over 50 Thesis/Dissertation Committees.

**Professional Service (select activities)**

Chair/Coordinator, Farm and United States Department of Agriculture (USDA) Economic Research Service (ERS) review of Farm and Rural Performance and Policy Programs. November 2017 to January 2018.

Manager, United States Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA) Competitive Grants Program Panel in Socioeconomics Implications and Public Policy Challenges of Bioenergy and Bioproducts Market Development and Expansion, July-October 2016.

Chair, External Review Team for the Department of Agricultural Economics, University of Nebraska – Lincoln, September 2015.

Manager, United States Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA) Competitive Grants Program Panel in Agricultural Economics and Rural Communities, Economics, Markets and Trade, July-August 2014.

Chair, Latin American Section, Agricultural and Applied Economics Association (AAEA), 2013-2014.

Chair, Employment Services Committee, Agricultural and Applied Economics Association (AAEA), 2013-2014.

Chair, External Review Team for the Department of Agricultural and Applied Economics, Texas Tech University, December 2013.

Manager, United States Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA) Competitive Grants Program Panel in Sustainable Bioenergy - Socioeconomic Impacts of Biofuels on Rural Communities, March-April 2012.

Chair, National Association of Agricultural Economics Administrators (NAAEA) 2008-2009.

Representative of the National Association of Agricultural Economics Administrators (NAAEA) in the American Agricultural Economics Association Board Nominating Committee (2007).

Member, CSREES Review Team for the Department of Agricultural Economics, Purdue University, November 2005.

Reviewer of the USDA/CSREES National Needs Fellowship Proposals, FY02-03 funding period.

Editorial Council, Journal of Agricultural and Applied Economics. July 1999 to 2001.

Reviewer of the Selected Paper Proposals for the International Economics Development Session of the 2007 Meetings of the American Agricultural Economics Association.

Reviewer of the Selected Paper Proposals for the Research Methods/Econometrics/Statistics Session of the 2002 and 2005 Meetings of the American Agricultural Economics Association.

Reviewer of the Selected Paper Proposals for the Quantitative/Econometrics Session of the 2001, 2004 and 2006 Meetings of the Southern Agricultural Economics Association.

Referee of numerous articles for the American Journal of Agricultural Economics, the Journal of Agricultural and Resource Economics, the Journal of Agricultural and Applied Economics, the Agricultural Finance Review, the Review of Agricultural Economics, the Agricultural and Resource Economics Review, and the Canadian Journal of Agricultural Economics, amongst others.