CURRICULUM VITAE

MIGUEL ALBERTO CARRIQUIRY

CONTACT INFORMATION

578D Heady Hall
Iowa State University
Ames, IA 50011

Phone:(515) 294-8911
Fax: (515) 294-6336
E-mail: miguelc@iastate.edu

EDUCATION

2004	Ph.D. in Agricultural Economics, Iowa State University. Fields of concentration: Agricultural Economics, Natural Resource and Environmental Economics. Minor: Statistics (all of the core courses for the Master's Program in Statistics). Dissertation Title: Supply Chain Management of Differentiated Agricultural Products Under Imperfect Information.
1999-2000	Master's Program in Economics at Iowa State University
1993-1998	Bachelor in Agricultural Engineering. Universidad de la República (Uruguay). Five-year program in Agricultural Engineering

---

ACADEMIC EXPERIENCE

2/2009-Present	Center for Agricultural and Rural Development (CARD) Food and Policy Research Institute (FAPRI), Iowa State University. -Associate Scientist -International Oilseeds and Biodiesel Analyst
12/2006-1/2009	Center for Agricultural and Rural Development (CARD), Biorenewables Policy Division, Iowa State University. -Assistant Scientist III
11/2005-11/2006	International Research Institute for Climate and Society (IRI), The Earth Institute, Columbia University. -Postdoctoral Research Scientist
8/2004-10/2005	Center for Agricultural and Rural Development (CARD), Iowa State University. -Postdoctoral Research Associate
8/2003-12/2003	Department of Economics, Iowa State University -Instructor, Course: Econ 101, Principles of Microeconomics.
8/1999-8/2004	Center for Agricultural and Rural Development (CARD), Iowa State University. -Graduate Research Assistant
8/2000	Department of Economics, Iowa State University -Graduate Teaching Assistant

---

CONSULTING EXPERIENCE

1/2010	National Biodiesel Board

10-12/2009	German Marshal Fund-Joint Research Center (JRC-European Commission)
6-9/2009	World Bank
2/2005-7/2005, 7/2007	AgRisk Management
10/1997-12/1997	AGROIND Consulting, Montevideo, Uruguay - Evaluated investment opportunities for small firms

---

RESEARCH INTERESTS

Economics of Bio-renewable Fuels, Risk Management, Econometric Modeling, Policy Analysis, Agribusiness and Food Marketing, and Decision Making Under Imperfect Information and Uncertainty.

ARTICLES IN PEER REVIEWED JOURNALS

Barr, K. J., B. A. Babcock, M. A. Carriquiry, A. Nassar, y L. Harfuch. 2011. "Agricultural Land Elasticities in the US and Brazil." *Applied Economic Perspectives and Policy* (ex Review of Agricultural Economics, forthcoming).

Dumortier, J., Hayes, D. J., M. A. Carriquiry, F. Dong, X. Du, A. Elobeid, J. Fabiosa, y S. Tokgoz. 2011. "Sensitivity of Carbon Emission Estimates from Indirect Land-Use Change." *Applied Economic Perspectives and Policy* (ex Review of Agricultural Economics, forthcoming).

Carriquiry, M. A., X. Du, y G. Timilsina. 2011. "Second Generation Biofuels: Economics and Policies." *Energy Policy* (forthcoming)

Brown, M., D. E. Osgood, and M. A. Carriquiry. 2011. "Science-Based Insurance." *Nature Geoscience*, 4, April: 213-214

Carriquiry, M. A., y D. E. Osgood. 2011. "Index Insurance, Probabilistic Climate Forecasts, and Production." *Journal of Risk and Insurance* (forthcoming)

Hayes, D.J., B. A. Babcock, J. F. Fabiosa, S. Tokgoz, A. Elobeid, T. Yu, F. Dong, C. E. Hart, W. Thompson, S. Meyer, E. Chavez, S. Pan, M. Carriquiry, and J. Dumortier. 2009. "Biofuels: Potential Production Capacity, Effects on Grain and Livestock Sectors, and Implications for Food Prices and Consumers." *Journal of Agricultural and Applied Economics*, 41 (2): 465-491.

Baethgen, W. E., M. A. Carriquiry, and C. Ropelewski. 2009. "Tilting the Odds in Maize Yields: How Climate Information Can Help Manage Risks." *Bulletin of the American Meteorological Society*, doi: 10.1175/2008BAMS2429.

Carriquiry, M. A., B. A. Babcock, and C. E. Hart. 2008. "Using a Farmer's Beta for Improved Estimation of Expected Yields." *Journal of Agricultural and Resource Economics*, 33 (1): 52-68.

Brown, C., and M. A. Carriquiry. 2007. "Managing Hydroclimatological Risk to Water Supply with Option Contracts and Reservoir Index Insurance." *Water Resources Research*, Vol 43, doi:10.1029/2007/WR006093

Carriquiry, M. A., and B. A. Babcock. 2007 "Reputations, Market Structure and the Choice of Quality Assurance Systems in the Food Industry." *American Journal of Agricultural Economics*, 89 (1): 12-23.

Carriquiry, M. A., and B. A. Babcock. 2005. "The Impact of Transportation Costs on Spatial Competition of Grain Buyers: An Iowa Case Study" *Journal of the Transportation Research Forum* 44 (Summer): 61-76.

ARTICLES SUBMITTED TO PEER REVIEWED JOURNALS

Osgood, D. E., P. Suarez, J. W. Hansen, M. A. Carriquiry, and A. Mishra. "Integrating Seasonal Forecasts and Insurance for Adaptation Among Smallholder Farmers: The Case of Malawi" (under review)

Dumortier, J., Hayes, D. J., M. A. Carriquiry, F. Dong, X. Du, A. Elobeid, J. Fabiosa, y K. Mulik. "Modelling the Effects of Pasture Expansion on Emissions from Land Use Change." (submitted)

Carriquiry, M. A., y W. E. Baethgen. "Climate Information and Agricultural Risk Management Alternatives: Implications for Insurance Design." (submitted)

TECHNICAL REPORTS AND OTHER ARTICLES

Babcock, B. A., y M. A. Carriquiry. 2010. "An Exploration of Certain Aspects of of CARB's Approach to Modeling Indirect Land Use from Expanded Biodiesel Production." Staff Report, February 2010. 10-SR 105, Center for Agricultural and Rural Development, Iowa State University.

Carriquiry M. A. with FAPRI staff. *FAPRI 2010* U.S. and World Agricultural Outlook. Iowa State University and University of Missouri.

Carriquiry, M. A., F. Dong, X. Du, A. Elobeid, J. Fabiosa, E. Chavez, y S. Pan. 2009. "World Market Impacts of High Biofuel Use in the EU." Final Report to the German Marshal Fund and the Joint Research Center of the European Commission.

Carriquiry M. A, X. Du, and G. Timilsina. 2009. "Second Generation Biofuels: A Global Assessment of Their Technical and Economic Potential, and Policy Challenges." Final Report to the Development Research Group, World Bank.

Dumortier, J., Hayes, D. J., M. A. Carriquiry, F. Dong, X. Du, A. Elobeid, J. Fabiosa, y S. Tokgoz. 2009. "Sensitivity of Carbon Emission Estimates from Indirect Land-Use Change." Working Paper, July 2009. 09-WP 493, Center for Agricultural and Rural Development, Iowa State University.

Carriquiry M. A. with FAPRI staff. *FAPRI 2009* U.S. and World Agricultural Outlook. Iowa State University and University of Missouri.

Carriquiry, M. A. 2008. "Biocombustibles en el Uruguay." Final Report final to the Programa de Inserción al Comercio Internacional (in Spanish)

Rubin, O. D., M. A. Carriquiry, y D. J. Hayes. "Implied Objectives of U.S. Biofuels Subsidies." Working Paper, July 2009. 08-WP 459, Center for Agricultural and Rural Development, Iowa State University.

Carriquiry, M. A., and B. A. Babcock. 2008. "Splashing and Dashing Biodiesel?" *Iowa Ag Review*, Vol. 14, No. 4 (Fall), pp. 6-7, 11.

Carriquiry, M. A., and B. A. Babcock. 2008. "A Billion Gallons of Biodiesel: Who Benefits?" *Iowa Ag Review*, Vol. 14, No. 8 (Winter), pp. 6-8.

Carriquiry M. A. with FAPRI staff. *FAPRI 2008* U.S. and World Agricultural Outlook. Iowa State University and University of Missouri.

Osgood, D. E., M. McLaurin, M. A. Carriquiry, A. Mishra, F. Fiondella, J. Hansen, N. Peterson, and N. Ward. 2007. "Designing Weather Insurance Contracts for Farmers in Malawi, Tanzania, and Kenya." Final Report to the Commodity Risk Management Group, ARD, World Bank. International Research Institute for Climate and Society (IRI), Columbia University, New York.

Carriquiry, M. A. "A Comparative Analysis of the Development of the United State and EU25 Biodiesel Industries." Briefing Paper, July 2007. 07-BP 51, Center for Agricultural and Rural Development, Iowa State University.

Carriquiry, M. A. 2007. "U.S. Biodiesel Production: Recent Developments and Prospects." *Iowa Ag Review*, Vol. 13, No. 2 (Spring), pp. 8-11.

Osgood, D. E., P. Suarez, J. W. Hansen, M. A. Carriquiry, and A. Mishra. 2007. "Integrating Seasonal Forecasts and Insurance for Adaptation Among Subsistence Farmers: The Case of Malawi" Report to the World Bank.

Hart, C. E., and M. A. Carriquiry. 2007. "Ethanol-Livestock Integration." *Iowa Ag Review*, Vol. 13, No. 1 (Winter), pp. 6-7.

Baethgen, W. E., M. A. Carriquiry, and A Giménez. 2007. "Variabilidad de Rendimientos de Cultivos en Uruguay y Estimación de Fondos Necesarios para Compensar Diferentes Niveles de Pérdidas." (in spanish) In: W. Baethgen y A. Giménez eds. Sistema de Información y Monitoreo para la Evaluación de Riesgos Climáticos en la Producción Agrícola de Uruguay y Paraguay. Serie Técnica 162. Instituto Nacional de Investigación Agropecuaria.

Baethgen, W. E., and M. A. Carriquiry. 2006. "Characterization of Yield Variability of Five Rain fed Crops in Uruguay." (in Spanish). *Coyuntura Agropecuaria.* Interamerican Institute for Cooperation in Agriculture. August.

Carriquiry, M. A. and B. A. Babcock. "Managing Quality Under Heterogeneous Consumer Demand and Product Quality." Working Paper, October 2005. 05-WP 410, Center for Agricultural and Rural Development, Iowa State University. (to be Submitted to the *Journal of Marketing*).

Carriquiry, M. A., and B. A. Babcock. "Coexistence of Spot and Contract Markets in Agriculture" Working Paper, April 2004. 02-WP 311 (Revised), Center for Agricultural and Rural Development, Iowa State University.

Babcock, B. A., and M. A. Carriquiry. 2001. "Acreage Shifts Under Freedom to Farm." *Iowa Ag Review*, Vol. 7, No. 1 (Winter), pp. 4-5.

Carriquiry, M. A., Morón, A., y J. Sawchik. 1999. Potencial de mineralización de nitrógeno de suelos en el área agrícola del Uruguay. XIV Congreso Latinoamericano de la Ciencia del Suelo, Temuco, Chile (in spanish).

Carriquiry, M. A. "Guaranteed Tender Beef: Opportunities and Challenges for a Differentiated Agricultural Product." Working Paper, September 2004. 04-WP 371, Center for Agricultural and Rural Development, Iowa State University.

Carriquiry, M. A., Babcock, B. A., and R. Carbone. "Optimal Quality Assurance Systems for Agricultural Outputs" Working Paper, March 2003. 03-WP 328, Center for Agricultural and Rural Development, Iowa State University.

CONFERENCE PAPERS AND PRESENTATIONS

Carriquiry, M. A. "A Comparison of the Biodiesel Industries in the U.S. and Germany." Invited Lecture for the Course Economics 496: Bioenergy, Food, and Agriculture in Germany. Iowa State University, March, 2008.

Brown, C., M. A. Carriquiry, and F. A. de Souza Filho. "Climate Informed Economic Instruments to Enhance Urban Water Supply Resilience to Hydroclimatological Variability and Change." presented at the American Geophysical Union's Fall Meeting, San Francisco, CA, December 11-15, 2006. (presented by Brown, C.)

Carriquiry, M. A. "Climate Information and Agricultural Risk Management Alternatives: Implications for Insurance Design." Seminar. International Research Institute for Climate and Society. Columbia University (September, 2006).

Carriquiry, M. A., and D. E. Osgood. "Index Insurance, Production Practices, and Probabilistic Climate Forecasts." Accepted for presentation at the NBER Summer Institute Environmental Economics Workshop, Cambridge, MA, July 27-28, 2006.

Carriquiry, M. A., and D. E. Osgood. "Index Insurance, Production Practices, and Probabilistic Climate Forecasts." Selected Paper: AAEA Annual Meeting, Long Beach, CA, July 23-26, 2006.

Carriquiry, M. A., and B. A. Babcock. "Reputations, Market Structure, and the Choice of Quality Assurance Systems in the Food Industry." Selected Paper: AAEA Annual Meeting, Providence, RI, July 24-27, 2005.

Carriquiry, M. A., and B. A. Babcock. "Can Spot and Contract Markets Co-Exist in Agriculture?" Seminar Workshop. Department of Economics. Iowa State University (May, 2004)

Carriquiry, M. A., and B. A. Babcock. "Reputations, Market Structure and the Choice of Quality Assurance Systems in the Food Industry." Seminar Workshop. Department of Economics. Iowa State University (December, 2004)

Carriquiry, M. A. "Importance of Agriculture and the Trade of Agricultural Products for Uruguay." Guest Speaker for the courses Agronomy 496/596, Sustainable Agriculture 596. Iowa State University, Spring, 2004.

Carriquiry, M. A. "Importance of Agriculture and the Trade of Agricultural Products for Uruguay." Presentation at the Semana Criolla. Event Organized by the Argentinean-Uruguayan Student Association and Sponsored by the International Education Services and GSB, Iowa State University, March, 2004.

Carriquiry, M. A., Babcock, B. A., and R. Carbone. "Optimal Quality Assurance Systems for Agricultural Outputs" Economics of Contracts in Agriculture. Third Annual Workshop. June 19-21, 2003, Copenhagen, Denmark.

Carriquiry, M. A., and B. A. Babcock. "Can Contract and Spot Markets Co-Exist in Agriculture?" Economics of Contracts in Agriculture. Second Annual Workshop. July 21-23, 2002, Annapolis, Maryland.

Carriquiry, M. A., Morón, A., y J. Sawchik. 1999. Nitrogen Mineralization Potential of Agricultural Soils in Uruguay. XIV Latin-American Congress of Soil Science, Temuco, Chile. (in spanish).

WORK IN PROGRESS

Du, X., and M. A. Carriquiry. "Flex-Fuel Vehicle Adoption and Dynamics of Ethanol Price: Lessons from Brazil and Implications for the United States"

Du, X., y M. A. Carriquiry. "Spatiotemporal Analysis of Ethanol Market Penetration in the United States."

Carriquiry, M. A., and B. A. Babcock. "Basis Risk Induced Adverse Selection: Time to Reconsider Actual Production History Estimation Rules?"

Carriquiry, M. A. "Towards the Design of a "Guaranteed Tender Beef" Certification System: Trade-Offs in Imperfect Certification Technologies."

GRANTS

- Biobased Industry Center. "Enhancing FAPRI's ability to assess climate change policy." 2010-2011 (PI, with Amani Elobeid, Bruce Babcock, and Dermot Hayes), $50.000
- United States Department of Agriculture. "Modeling Biofuel Production and Policies on Agriculture on the World and Implications for the US." 2008-2010. (Co-PI with Amani Elobeid).

LANGUAGES

- Spanish (native)
- English (proficient in oral and written communication)
- Portuguese (fluent reading)

COMPUTER LITERACY

- MS Office (Word, Excel, Access, PowerPoint)
- Statistical and Mathematical Packages Including SAS, and R
- DSSAT: crop growth simulation software

PROFESSIONAL ACTIVITIES, HONORS AND SERVICE

- Reviewed for the American Journal of Agricultural Economics, the Journal of Agricultural and Applied Economics, Choices, the Agricultural and Resource Economics Review, Environmental Science and Technology
- Reviewed abstracts for the American Agricultural Economics Association Meetings in 2009
- Reviewed abstracts for the conference "Living with Climate Variability and Change: Understanding the Uncertainties and Managing the Risks." Co-organized by the World Meteorological Association, the Finnish Meteorological Institute, and the International Research Institute for Climate and Society. Espoo, Finland 17-21 July, 2006.
- Graduate College Scholarship, Iowa State University, 1999-2004
- Graduate College, ABD Scholarship, Iowa State University, Spring-Summer, 2004