

Juan Francisco Rosas Pérez

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Centro de Investigaciones Económicas (CINVE)
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Current position

- Universidad ORT Uruguay, Department of Economics, Montevideo, Uruguay
 - Professor
 - Chair in Econometrics and Statistics
- Centro de Investigaciones Económicas (CINVE), Montevideo, Uruguay
 - Partner and Senior Research Fellow

Research Interests

Applied Microeconomics, Econometrics, and applied public policy (topics: agricultural and natural resource economics, production economics under uncertainty, economics of climate change, financial economics, and agricultural policy)

Education

Iowa State University, Department of Economics, Ames IA

PhD. in Economics, 2012

Tesis de PhD: "Essays on the Environmental Effects of Agricultural Production"

Advisor: Dermot J. Hayes; GPA: 3.61/4.00

Iowa State University, Center for Agricultural and Rural Development (CARD), Ames IA

Postdoctoral Research Fellow, 2012

Advisor: Dermot J. Hayes and Amani Elobeid

Universidad de la República, Facultad de Ciencias Económicas y de Administración, Montevideo, Uruguay

BA in Economics, 2002

Undergrad thesis: "Estimation of electric load curves in Uruguay".

Advisor: Ec. Adrián Fernández

Journal articles and working papers

Peer-reviewed journal articles

Fernández-Arias, E., **Francisco Rosas** and F. Lorenzo. 2023. Desarrollo del sistema financiero para el sector agropecuario de Uruguay. *Revista de Estudios Regionales*. Forthcoming

Francisco Rosas and M. Sans. 2023 "Quantifying the Value to the Farmer of Adopting Climate Change Resilient Technologies: Evidence from the Agricultural Sector in Uruguay." *Mitigation and Adaptation Strategies for Global Change*. 28(5): 1-18

Francisco Rosas, S. Acerenza, P. F. Orazem. 2020. Identification of observed and unobserved taste: An application to college-games tickets using contingent valuation. *Applied Economics*. 52(7):742-755

Francisco Rosas, Sergio H. Lence, D. J. Hayes. 2019. "Crop yield responses to prices: A Bayesian approach to blend experimental and market data" *The European Review of Agricultural Economics*. 46(4): 551-577

Francisco Rosas and Sergio H. Lence. 2019. "How Reliable is Duality Theory in Empirical Work?" *The American Journal of Agricultural Economics* 101(3): 825-848

Darré, E., M. Cadenazzi, S.R. Mazzilli, **Francisco Rosas** and V. Picasso. 2018. "Environmental impacts on water resources from summer crops in rainfed and irrigated systems." *Journal of Environmental Management* 232(15): 514-522

Francisco Rosas and Sergio H. Lence. 2017. "Duality theory in empirical work, revisited" *The European Review of Agricultural Economics* 44(5): 836-859.

Francisco Rosas, Dermot J. Hayes, and Bruce A. Babcock. 2015. "Nitrous Oxide Emission Reductions from Cutting Excessive Nitrogen Fertilizer Applications". *Climatic Change*. 132 (2): 353-367.

Francisco Rosas and Peter F. Orazem. 2014. "Is Self-Sufficiency for Women's Collegiate Athletics a Hoop Dream?: Willingness to Pay for Men's and Women's Basketball Tickets." *Journal of Sports Economics*. 15(6): 579-600.

Francisco Rosas, M. Ackermann, M. Buonomo. 2014. "A private evaluation model of irrigation projects: An application to large dams in the San Salvador River Basin, Uruguay" in *Conference Proceedings of Tercer Seminario Internacional de Riego en Cultivos y Pasturas*. Grupo de Desarrollo del Riego. Paysandú, Uruguay (in Spanish)

Amani Elobeid, Miguel Carriquiry, Kranti Mulik, Dermot J. Hayes, Bruce A. Babcock, Jerome Dumortier, **Francisco Rosas**. 2013. "Biofuel Expansion, Fertilizer Use and GHG Emissions: Unintended Consequences of Mitigation Policies" *Economics Research International*. 2013(12). Available at <http://www.hindawi.com/journals/ecri/2013/708604/>

Dissertation:

Francisco Rosas. 2012. "Essays on the environmental effects of agricultural production"
PhD Thesis, Iowa State University. <http://lib.dr.iastate.edu/etd/12737/>

Ongoing research

Francisco Rosas. "The assessment of climate change policies through a general equilibrium model: An application to Uruguay" Funded by CEPAL.

Francisco Rosas and M. Sans. "The effect of irrigation on income volatility reduction: A prospect theory approach." Funded by National Agency for Research and Innovation (ANII).

A. Souto, M. Carriquiry, **Francisco Rosas** "Assessing the Impact of Agricultural Intensification on Water Pollution: An Integrated Model Assessment of the San Salvador Basin in Uruguay" Funded by Innovagro-ANII.

F. Frabasile, **Francisco Rosas**, M. Carriquiry, T. Ancev "Environmental and economic impacts of water and farm management practices: An integrated model for the Tala River basin in Uruguay" Funded by Innovagro-ANII

Francisco Rosas and Sergio H. Lence. "How different levels of endogeneity in the data affect the performance of Duality Theory in empirical analysis."

Francisco Rosas and Sergio H. Lence. "Assessing the performance of an alternative to the dual approach in empirical analysis."

Working papers:

Fernández-Arias, E. & **Francisco Rosas**. 2022. "Desarrollo del sistema financiero para el sector agropecuario de Uruguay," Documento de Investigación nro. 130. Montevideo: Universidad ORT Uruguay. Facultad de Administración y Ciencias Sociales. Recuperado de <https://dspace.ort.edu.uy/handle/20.500.11968/4571>

Fernández-Arias, E. & **Francisco Rosas**. 2021. "Desarrollo del sistema financiero para el sector agropecuario de Uruguay," LAC working papers 23, International Food Policy Research Institute (IFPRI).
<https://ebrary.ifpri.org/digital/collection/p15738coll2/id/134548/rec/1>

Francisco Rosas, S. Acerenza, P. F. Orazem. 2019 Optimal pricing strategies for a cluster of goods. Documento de Investigación nro. 119. Montevideo: Universidad ORT Uruguay. Facultad de Administración y Ciencias Sociales. Recuperado de <https://dspace.ort.edu.uy/handle/20.500.11968/3907>

Francisco Rosas and M. Sans. 2018. "The effect of irrigation on income volatility reduction: A prospect theory approach." Documento de Investigación nro. 117. Montevideo: Universidad ORT Uruguay. Facultad de Administración y Ciencias Sociales. Recuperado de <https://dspace.ort.edu.uy/bitstream/handle/20.500.11968/3890/documentodeinvestigacion118.pdf>

Francisco Rosas, S. Acerenza, P. F. Orazem. 2017. Identification of observed and unobserved taste: An application to college-games tickets using contingent valuation. *Economics Working Papers*. Paper 11. Iowa State University. http://lib.dr.iastate.edu/econ_workingpapers/11

Francisco Rosas and Miguel Carriquiry. 2016. A Uruguayan land-use partial equilibrium model for analyzing scenarios of trade and agricultural policy. IADB Working Papers Series. Funded by IADB. In cooperation with the National Institute for Trade Negotiations of Argentina (INAI).

B. Lanzilotta, **Francisco Rosas**, A. Failde, C. Perdomo, M. Pérez Bidegain. 2015. "Fiscal instruments for control and mitigation of water streams agricultural pollution: An application to the Santa Lucía river basin." CEF – Ministerio de Economía. Disponible en: http://www.cef.org.uy/images/Informes/Informe%20CalidadAgua_aPublicar.pdf

Francisco Rosas. 2012. "Fertilizer Use by Crop at the Country Level (1990–2010)." CARD Working Paper Series: 12-WP 535. Available at: <http://www.card.iastate.edu/publications/synopsis.aspx?id=1178>

Amani Lobead, Miguel Carriquiry, Jacinto F. Fabiosa, Kranti Mulik, Dermot J. Hayes, Bruce A. Babcock, Jerome Dumortier, **Francisco Rosas**. 2011. "Greenhouse Gas and Nitrogen Fertilizer Scenarios for U.S. Agriculture and Global Biofuels." CARD Working Paper Series: 11-WP 524. Available at: <http://www.card.iastate.edu/publications/synopsis.aspx?id=1161>

Amani Elobeid, Miguel Carriquiry, Jerome Dumortier, Dermot J. Hayes, **Francisco Rosas**. 2012. "FARPI-ISU 2012 World Agricultural Outlook." Available at: <http://www.fapri.iastate.edu/outlook/2012/>

Amani Elobeid, Miguel Carriquiry, Jerome Dumortier, Jacinto F. Fabiosa, Dermot J. Hayes, Kranti Mulik, **Francisco Rosas**. 2011. "FARPI-ISU 2011 World Agricultural Outlook." FAPRI Staff Report: 11-FSR 1. Available at: <http://www.card.iastate.edu/publications/synopsis.aspx?id=1157>

Francisco Rosas. 2011. "World Fertilizer Model –The WorldNPK Model." CARD Working Paper Series: 11-WP 520. Available at: <http://www.card.iastate.edu/publications/synopsis.aspx?id=1156> .

Agricultural policy briefs:

Francisco Rosas, P. Arbeletche, S. Mazzilli, M. Silva, D. Peloché, M. Mondelli. 2019. Quantifying the impact in natural resources use and the environment of crop production systems by taxonomy of enterprises. Serie FPTA INIA. <http://www.inia.uy/Publicaciones/Documentos%20compartidos/Inia-Fpta-77-proyecto-330-2019.pdf>

Francisco Rosas, Trimble, M., Mazzeo, N., Ciganda, A.L., Zurbriggen, C., Santos, P. 2018. Brechas de conocimiento en adaptación al cambio climático. Informe de Diagnóstico Uruguay. Red Regional de Cambio Climático y Toma de Decisiones. Programa UNITWIN de UNESCO, Proyecto LatinoAdapta. Available in: http://www.cambioclimaticoydecisiones.org/wp-content/uploads/2018/12/Informe-Uruguay_2019.pdf

Francisco Rosas and M. Buonomo. 2016. “Sustainable Intensification of Agriculture: A Conceptual Framework” in *Serie Técnica INIA* Nro.227: 33-50. Montevideo, Uruguay. Available in: http://www.inia.uy/Publicaciones/Documentos%20compartidos/st%2020227_2016.pdf

Buonomo, M., L. Erbure, **Francisco Rosas**, M. Mondelli. 2015. “Environmental Economic Accounts in Uruguay under the UN methodology: Soils and Forestry” in *Anuario 2015 OPYPA-MGAP*. 397-408. Montevideo, Uruguay

Francisco Rosas, M. Ackermann, M. Buonomo. 2014. “Evaluation of economic impacts of irrigated area expansion at the national scale” in *Anuario 2014 OPYPA-MGAP*. 563-574. Montevideo, Uruguay

Martins, A., J. Marzaroli, **Francisco Rosas**, M. Ackermann, M. Buonomo, G. Finozzi, D. Madeiro, K. Gasparinni. 2014. “Policy agenda for expansion of irrigation: Towards Smart Agriculture in Uruguay” en *Anuario 2014 OPYPA-MGAP*. 255-268. Montevideo, Uruguay

Francisco Rosas, M. Mondelli, and C. Paolino. 2014. “Sustainable intensification strategies in agriculture and adaptation to variability and climate change,” in *Uruguay+25 Documentos de Investigación*. Edited by Harari, Mazzeo, Alemany. Fundación Astur and Red Mercosur de Investigadores. Editorial Trilce. Montevideo, Uruguay

Francisco Rosas, I. Arbolea, M. Carriquiry, V. Picasso, H. Licandro, H. Millán. 2013. “A study and evaluation of agricultural practices for adaptation to climate change,” in *Clima de Cambios. Nuevos desafíos de Adaptación en Uruguay*. FAO Press. Montevideo, Uruguay

Research Experience

Applied microeconomics and econometrics, applied agricultural public policy. Topics: agricultural and natural resource economics, production economics under uncertainty, economics of climate change, modeling world fertilizer markets for production and trade projections, modelling land use change for production and trade projections. Labor economics (sports economics)

Agribusiness. An International Journal

Guest Editor, <https://onlinelibrary.wiley.com/journal/15206297>

International Journal of Food and Agricultural Economics - IJFAEC

Member of the Editorial Board, <http://www.foodandagriculturejournal.com/aboutijfaec.html>

National Bureau of Research, Uruguay (SNI-ANII - <http://www.sni.org.uy/>): Active Member since 2013 – now
Referee: *Agricultural Economics (AGECON)*, *European Review of Agricultural Economics*, *Environmental Modelling and Software*. *PLOS-ONE*, *Agrociencia*

Universidad ORT Uruguay – Department of Economics: Professor since 2016 - now

Centro de Investigaciones Económicas (CINVE), Uruguay: Partner/Senior Research Fellow. 2013 – now.

Ministry of Agriculture of Uruguay, Office of Ag Policy: Manager. Unit of Economics of Natural Resources. 2013-2016.

Iowa State University, Department of Economics

Postdoctorate Reserach Associate. 2012. Advisor: Dr. Dermot J. Hayes.

Research Assistant. 2009 – 2012. Department of Economics and Center for Agricultural and Rural Development. Advisor: Dr. Dermot J. Hayes

Research Assistant. 2008 – 2009. Advisor: Dr. Peter F. Orazem.

Iowa State University, Horticultural Department and Agronomy Department

Research and Extension Assistant . 2007 – 2008 (summers). Advisor: Dr. Kathleen Delate. Areas: Organic and conventional agriculture

Central Bank of Uruguay. Area of Monetary Policy: Research Assistant. 1999

Teaching Experience

Universidad ORT Uruguay, Department of Economics

Chair in Econometrics and Statistics

Stand-alone instruction/main instructor

Econometrics cross section(undergrad)	2013-now
Econometrics, advanced (undergrad)	2018-now
Intro to Statistics (undergrad)	2013-now
Quantitative methods (Master)	2020-now
Econometrics (Master)	2013-2016
Financial Econometrics (Diploma in Finance, Paraguay)	2013
Econometrics I (Diploma in Economics, Paraguay)	2013

Ministry of Foreign Affairs of Uruguay, Foreign Service Institute

Professor of Economics and International Trade

2013-2023

Iowa State University, Department of Economics

Stand-alone teaching.

Principles of microeconomics (Econ 101L) – 2007

Teaching Assistant.

Introduction to Agricultural Markets (Econ 235), Farm Management (Econ 330), Money, Banks and Financial Institutions (Econ 353), Principles of Microeconomics, Principles of Macroeconomics.

Graduate Students:

María Eugenia Silva Carrazzone

- PhD in Economics. University of Bonn (co-advisor, in progress)

Carolina Balián

- PhD in Sustainable Systems. Wageningen University & Research (co-advisor, in progress)

Andrés Díaz

- PhD en Economía. Universidad de la Republica. Uruguay (co-advisor, in progress)
- Master en Economía. Universidad de la Republica. Uruguay (graduated in 2019)

Augusto Souto

- Master en Economía. Universidad de la Republica. Uruguay (graduated in 2021)

Adrian Giorello

- Master en Economía. Universidad ORT Uruguay (graduated in 2018)

Fernando Agüero, Sergio Echeverría, Bernardo Mendoza, Silvia Ramos, Nancy Torales

- Diploma en Economía, Paraguay. Universidad ORT Uruguay (graduated in 2015)

María Noel Ackermann

- Master en Producción Agrícola. Universidad de la Republica. Uruguay (advisor, in progress)

Grant Activity:

Economic sustainability of supplemented irrigation in agricultural production systems of Uruguay.

Funded by National Institute of Agricultural Reserach (INIA Uruguay). 2023

PI: Francisco Rosas

Towards a general equilibrium model for climate policy analysis.

Funded by CEPAL. 2023

PI: Francisco Rosas

Macroeconomic Impacts of Uruguayan 2050 Long-Term Climate Change Strategy.

Funded by CEPAL. 2021

PI: Francisco Rosas

Transformation and Sustainability Governance in South American Bioeconomies (SABio: sabio-project.org/)

Funded by The German Federal Ministry of Food and Agriculture (BMEL). 2019-2023

Countries: Argentina, Brazil, Uruguay.

Role in the Project. Partner, PhD advisor

Economic and environmental instruments to rationalize the use of fertilizers and pesticides and foster bio-based inputs.

Funded by IADB. 2019-2020

PI: Francisco Rosas

Financial system development for agriculture in Uruguay.

Funded by International Food Policy Research Institute – IFPRI. 2020

CO-PIs. Francisco Rosas and Eduardo Fernández-Arias

Programa “Ag-environmenta platforms for development of irrigation in Uruguay - DAIS”

Institutions: IMFIA-FING-UDELAR, FACS-ORT, FCEA-UDELAR, FCIEN-UDELAR, INIA, University of Sydney, IRI- Univ. Columbia, Australian Studies Centre.

Funded by ANII.

Program composed of two projects

Project 1 DAIS-Modeling. DAIS Model: Biophysical and economic integrated modelling of water resources, for the development of sustainable irrigation in Uruguay

Co-PI

Project 2 DAIS-Monitoring. Strategy for monitoring water quality and quantity in agricultural basins in Uruguay.
Researcher

Change in the registry system of phytosanitary products: Impact evaluation in the market of these products

Funded by FAO (GCP/URU/031/GFF). 2019

PI

Cost-Benefit Analysis of public goods in the beef supply chain of Uruguay.

Funded by Beef National Institute. 2019

Co-PI: Francisco Rosas and Diego Aboal

Proyecto LatinoAdapta. Improving the linkages between science and policy in Latin America. Knowledge gaps in policies of adaptation to climate change. Center for Climate Change and Decision Making.

Funded by IDRC. 2018-2020

Co-PI

Cost-benefit analysis of mitigation actions of the Nationally Determined Contribution (NDC) to the Paris Agreement. Funded by IADB. 2017

PI: Francisco Rosas

“A land-use model for scenario analysis of agricultural policies and technology adoption”

Funded by IADB USD 52,000. 2016

PI: Francisco Rosas

“Towards the answer of three puzzles in agriculture in Uruguay”

Funded by: María Viñas Fund. National Agency of Research and Innovation (ANII) USD 55,000. 2016-2017

PI: Francisco Rosas

“Impacts on natural resources of agricultural production practices, by typology of farmers”

Funded by: Fondo de Promoción de Tecnología Agropecuaria. National Institute of Agricultural Research (FPTA-INIA). 2013-2016. USD 110,000

PI: Francisco Rosas, Co-PI: Pedro Arbereche, Sebastián Mazzilli, Mario Mondelli

“Incentives to reduce water pollution from agricultural practices”

Funded by Ministry of Economics. 2014. USD 23,000

PI: Bibiana Lanzilotta; Co-PI: Francisco Rosas, Alicia Failde, Carlos Perdomo, Mario Pérez Bidegain

“Public Strategies of sustainable agricultural intensification and adaptation to climate change”

Funded by: IADB

PI: Francisco Rosas. Co-PI: Mario Mondelli, Carlos Paolino

“Efficiency of land markets in Uruguay”

Funded by IFPRI. March 2014
PI: Nestor Gandelman. Co-PI: Francisco Rosas

“Environmental effects of irrigation practices in agriculture”
Funded by Latin America Development Bank. 2014. USD 25,000
PI: Francisco Rosas. Co-PI: Mario Mondelli, Valentín Picasso

“Climate Change adaptation agricultural policies”
Funded by FAO and Ministry of Agriculture, Uruguay. 2013. USD 38,000
PI: Francisco Rosas; Co-PI: I. Arboleya

Modelling world fertilizer markets for projections and policy analysis”
Funded by Biobased Industry Center (BIC). Iowa State University. <http://biobasedindustrycenter.iastate.edu/>
Julio 2011. USD 50,000
PI: Dermot J. Hayes. Co-PI: Francisco Rosas

Nitrous oxide emissions and fertilizer applications. 2011.
Funded by The David and Lucile Packard Foundation. USD 80,000
PI: Dermot J. Hayes; Co-PI: Bruce A. Babcock, Francisco Rosas

Conference and workshop presentations

XXXVIII Jornadas de Economía del Banco Central del Uruguay. Agosto 2023, Montevideo. “The assessment of economic and environmental impacts of water use efficiency and farm practices through an economic and biophysical integrated model.”

2023. Agricultural and Applied Economics Association (AAEA) Annual Meetings. August 2023. Washington DC

- “The assessment of economic and environmental impacts of water use efficiency and farm practices through an economic and biophysical integrated model.”
- “Towards the assessment of climate change policies through a general equilibrium model: An application to Uruguay”

2023. IAAE Interconference Symposium y 6to Congreso Regional de Economía Agraria. April 2023. Montevideo

- “Environmental and economic impacts of water and farm management practices: An integrated model for the Tala River basin in Uruguay.”
- A general equilibrium model for climate change policy analysis: An application to Uruguay
- How does the reference point contribute to farmers’ compliance with soil conservation policies?
- The contribution of microbiome-based inputs to a productive and sustainable agriculture: A meta-analysis

COP27– Conference of the Parties, United Nations Framework Convention on Climate Change, Sharm-el-Sheik, Egypt. 2022. Side-Event: Make Climate Action Everyone’s Business Forum – International Chamber of Commerce. “Climate Finance and Agriculture in Uruguay.”

XXXVII Jornadas de Economía del Banco Central del Uruguay. Agosto 2022, Assessing the impact of agricultural intensification on water pollution: an integrated model assessment of the San Salvador basin in Uruguay.

2021 Agricultural and Applied Economics Association (AAEA) Annual Meetings. July 2021, Austin, TX. Poster presented: “Assessing the effect of noisy data on Duality Estimates

University of Sydney. Sydney Institute of Agriculture. Cost-benefit analysis of agricultural policies of adaptation to climate change: NDC of Uruguay. September 2019.

2019 Agricultural and Applied Economics Association (AAEA) Annual Meetings. July 2019, Atlanta, GA. Poster presented: “Duality theory in empirical work: Evaluating the performance of an alternative method”

COP24 – Conference of the Parties, United Nations Framework Convention on Climate Change, Katowice, Poland. 2018. Side-Event LatinoAdapta Project. “Knowledge Gaps in Adaptation to Climate Change in Latin America.”

XXXII Central Bank of Uruguay Annual Meetings. August 2017, Montevideo, Uruguay. “How Reliable is Duality Theory in Empirical Work?”

2017 Agricultural and Applied Economics Association (AAEA) Annual Meetings. July 2017, Chicago, IL.

- Paper presented: “Quantifying the premium received by farmers from less volatile productivity: Prospect Theory applied to supplemented irrigation in summer crops in Uruguay”
- Poster presented: “Assessing the performance of an alternative to the dual approach in empirical analysis”

Centro de Investigaciones Económicas – CINVE. 2017 Seminar Series. Febrero 2017. “Identification of observed and unobserved taste: An application to college-games tickets using contingent valuation.” Montevideo, Uruguay

National Academy of Economics of Uruguay. Key-note speaker. “The sustainability of economic growth in Uruguay.” Universidad ORT Uruguay. September 2016, Montevideo, Uruguay

XXXI Central Bank of Uruguay Annual Meetings. August 2016, Montevideo, Uruguay. “Identification of observed and unobserved taste: An application to college-games tickets using contingent valuation.”

2016 Agricultural and Applied Economics Association (AAEA) Annual Meetings. July 2016, Boston, MA. Paper accepted: “How Reliable is Duality Theory in Empirical Work?”

XI Research Workshop on Institutions and Organizations – RWIO. July 2016. “Differences in productivity performance and environmental performance by farming organizational models: An analysis of the Uruguayan crop production.” Insper, San Pablo

Universidad ORT Uruguay. 2016 Seminar Series. June 2016. “Crop yield responses to prices: A Bayesian approach to blend experimental and market data.”

Centro de Investigaciones Económicas – CINVE. June 2016 Seminar Series. “How Reliable is Duality Theory in Empirical Work?” Montevideo, Uruguay

XXX Central Bank of Uruguay Annual Meetings. August 2015, Montevideo, Uruguay. “Response of Crop Yields to Prices: A Bayesian Approach to Complement the Duality Theory Econometrics.”

2015 Agricultural and Applied Economics Association (AAEA) Joint Annual Meetings. July 2015, San Francisco, CA. Paper presented: “Duality Theory in empirical work, revisited”

Red de Políticas Agropecuarias (REDPA) del Consejo Agropecuario del Sur. December 2014. “Current Situation of Water Use for Agriculture in Uruguay” Santiago de Chile, Chile

IV Regional Congress of Agricultural Economics. October 2014. “Nitrous Oxide Emission Reductions from Cutting Excessive Nitrogen Fertilizer Applications.” Buenos Aires, Argentina.

Key-note speaker at *Celebrating 10 years of irrigation services of INIA*. September 2014. “A private evaluation model of irrigation projects: An application to large dams in the San Salvador River Basin, Uruguay.” Las Brujas, Uruguay

Annual Meetings of Economics of The College of Business at Universidad de la República. September 2014. “A private evaluation model of irrigation projects: An application to large dams in the San Salvador River Basin, Uruguay.” Montevideo, Uruguay

Centro de Investigaciones Económicas – CINVE. 2014 Seminar Series. September 2014. “Nitrous Oxide Emission Reductions from Cutting Excessive Nitrogen Fertilizer Applications.” Montevideo, Uruguay

Red de Políticas Agropecuarias (REDPA) del Consejo Agropecuario del Sur. August 2014. “Irrigation Policies in Uruguay” Cochabamba, Bolivia

Universidad ORT Uruguay. 2013 Seminar Series. September 2013. “Does Duality Theory holds in Practice? A simulation approach.” Montevideo, Uruguay

Red de Políticas Agropecuarias (REDPA) del Consejo Agropecuario del Sur. August 2013. “Current Situation of Irrigation in Uruguay” Santiago de Chile, Chile

The Monsanto Company. October 2012. Webinar presentation. “Response of Crop Yields to Prices: A Bayesian Approach to Complement the Duality Theory Econometrics”

Biobased Industry Center (BIC) at Iowa State University. May 2012, BIC Board Meeting, Ames, IA. “Modeling world fertilizer markets for projections and policy analysis” Project update.

Department of Economics Seminar Series, Iowa State University. April 2012. Ames, Iowa. “Duality Theory Econometrics: How Reliable is it with Real-world Data? A Monte Carlo Simulation Analysis”

Biobased Industry Center (BIC) at Iowa State University. November 2011, BIC Board Meeting, Ames, IA. “Modeling world fertilizer markets for projections and policy analysis” Project update.

2011 Agricultural and Applied Economics Association (AAEA) Joint Annual Meetings. July 2011, Pittsburgh, PA. Paper presented: “Does Duality Theory Hold in Practice? A Monte Carlo Analysis for U.S. Agriculture”

Conference: The Role of Carbon Offsets in Climate Policy. May 2011. Cornell University, Ithaca, NY. Paper presented: “A Nonlinear Offset Program to Reduce Nitrous Oxide Emissions Induced by Excessive Nitrogen Application”

Inter-American Development Bank (IADB). March 2011, Washington, DC. Paper presented: “A Nonlinear Offset Program to Reduce Nitrous Oxide Emissions Induced by Excessive Nitrogen Application”

2010 Agricultural and Applied Economics Association (AAEA) Joint Annual Meetings. July 2010, Denver, CO. Paper presented: “Joint Estimation of Crop Supply, Yield and Area Elasticities using Duality Theory”

2009 Midwest Economic Association (MEA) Annual Meetings. March 2009, Cleveland, OH. Paper presented: “Will Men Pay for Women's Sports?: Willingness to Pay for Men's and Women's Basketball Tickets”

Private sector work experience

Equifax Inc., Montevideo, Uruguay. *Economist*. 2004 – 2006,

Algeria Uruguay Export S.A. Broker de Commodities - Montevideo, Uruguay. *Partner*. 2003 – 2006

Frigorífico Rosario S.A. Packing Plant. Montevideo, Uruguay. *Exports and Finance Business Analyst*. 1997 - 2004

Suinur S.C. Pork operation - Montevideo, Uruguay. *Business Analyst of Finance*. 2000 – 2004

Diario EL PAIS. Newspaper - Montevideo, Uruguay. *Writer*. 2000

Central Bank of Uruguay – Montevideo, Uruguay. *Research Assistant*. 1999.

Prizes and Honors

The 2018 Research and Academic Production Award. Universidad ORT Uruguay. 2018

The 2015 Research and Academic Production Award. Universidad ORT Uruguay. 2015

GAMMA SIGMA DELTA. The Honors Society of Agriculture. United States

Robert Thomas Graduate Student Ambassador Award, Iowa State University. 2010

Dean Klecker Global Agriculture Graduate Scholarship, Iowa State University. 2008

Central Bank of Uruguay. Montevideo, Uruguay. *Research Assistantship*. 1999

Professional Societies

Agricultural & Applied Economics Association – AAEA. USA. Member

Sociedad Uruguaya de Economistas Agrícolas – SUEA. Uruguay. Member

Sociedad de Economistas del Uruguay – SEU. Uruguay. Member

Sociedad de Economía Ecológica del Uruguay – SEEU. Uruguay. Member

Uruguayan Accountants, Economists & Managers Society. Uruguay. Member

Software

MATLAB, GAUSS, R, STATA, Latex

Languages:

Spanish (native), English (fluent), Portuguese (proficient)

References

Dermot J. Hayes, PhD
Professor
568C Heady Hall
Iowa State University
Ames, IA 50011
Tel: (515) 294-6185
dhayes@iastate.edu

Sergio H. Lence, PhD
Professor
368E Heady Hall
Iowa State University
Ames, IA 50011
Tel: (515) 294 8960
shlence@iastate.edu

Peter F. Orazem, PhD
University Professor
267 Heady Hall
Iowa State University
Ames, IA 50011
Tel: (515) 294 8656
pfo@iastate.edu