

Daniel A. Solís

Curriculum Vitae

PERSONAL INFORMATION:

E-mail: d.solis@miami.edu
Website: <http://www.danielsolis.webs.com/>
Areas of Interest: Development and Environmental Economics; Production, Productivity and Efficiency Analysis; Climate and Weather Economics; and Impact Evaluation.

QUALIFICATIONS:

2005 Ph.D. Agricultural and Resource Economics, University of Connecticut.
2002 M.S. Agricultural and Resource Economics, University of Connecticut.
1998 B.S. Agricultural Engineer, University of Talca - Chile (*Summa Cum Laude*).

LANGUAGES:

Fluent in English and Spanish

EMPLOYMENT HISTORY:

2006-present *Assistant Scientist*, Division of Marine Affairs and Policy, Rosenstiel School of Marine and Atmospheric Science (RSMAS), University of Miami.
2008-present *Adjunct Faculty*, Division of Agribusiness, Florida A&M University.
2005-2006 *Visiting Research Fellow*, Department of Economics, U. of Oviedo, Spain.
1999-2005 *Research Associate*, Office of International Affairs, U. of Connecticut.
Summer 2003 *Intern*, Inter-American Development Bank, Environment and Natural Resources Management Division, Washington DC.
1997-99 *Research and Teaching Assistant*, Department of Agricultural Economics, U. of Talca.

AWARDS AND HONORS:

2009 *Who's Who in America*, Marquis Publications.
2007-present *Research Fellow*, COAPS, Florida State University.
2006 *International Networking for Young Scientist Grant*, British Council – USA.
2005-2006 *Research Grant*, Group of Productivity and Efficiency Analysis, U. of Oviedo, Spain.
2003 *“Hispanidad y Esfuerzo”*, for academic achievements, A.I.E.C.H., Chile.
1999-2005 *Research Assistant Fellowship*, U. of Connecticut.
1996-1998 *Teaching Assistant Fellowship*, U. of Talca, Chile.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

American Agricultural (Agr.) Economics (Econ.) Association (Assoc.); Southern Agr. Econ. Assoc.; Florida Climate Institute; Southeast Climate Consortium.

OTHER PROFESSIONAL EXPERIENCE:

Editorial Board Member, *Journal of Development and Agricultural Economics*, 2009-present.

Reviewer for the following journals:

<i>American J. Agricultural Economics</i>	<i>Agricultural Economics</i>
<i>J. of Agricultural Economic</i>	<i>J. of Agricultural and Applied Economics</i>
<i>Environment and Development Economics</i>	<i>Ecological Economics</i>
<i>J. of Productivity Analysis</i>	<i>Southern Economic J.</i>
<i>Empirical Economics</i>	<i>Applied Economics</i>
<i>China Economic Review</i>	<i>Agricultural Systems</i>
<i>Economics Bulletin</i>	<i>J. of Sustainable Forestry</i>
<i>Land Degradation & Development</i>	<i>J. of Development and Agricultural Economics</i>
<i>Int. J. of Environment and Pollution</i>	<i>J. of the Operational Research Society</i>
<i>J. of the Asia Pacific Economy</i>	<i>Choices</i>
<i>Economía Agraria y Recursos Naturales</i>	<i>Revista Ciencia e Investigación Agraria</i>

Local Coordinator, “ALPHA Project: Dairy Sector in Latin America and Europe”. European Union, 2006.

Organizing Committee, “Aquaculture, Ecology and Economics: Towards a Sustainable Paradigm”, 2003.

Coordinator and Instructor, International Workshop: “Project Evaluation for Sustainable Development in Latin America”, U. of Connecticut, 2000-2002.

Coordinator and Editor, “II Chilean Agric. Economics Association Annual Meeting”, 1997.

COURSES TAUGHT:

Development Economics (instructor, undergrad-level), Florida A&M U., Spring 2010

Economics of Agriculture (instructor, undergrad-level), Florida A&M U., Fall 2008, Fall 2009

Advanced Agricultural Production Economics (instructor, grad-level), Florida A&M U., Spring 2009

Quantitative Methods (invited instructor, grad-level), U. of Göttingen (Germany), Summer 2003.

Cost-Benefit Analysis (instructor, professional-level), U. of Connecticut, Summer 2000, 2001, 2002.

Agricultural Economics (TA, undergrad-level), U. of Talca, Fall 1998, Fall 1999.

REFEREED JOURNAL PUBLICATIONS AND BOOK CHAPTERS:

Bravo-Ureta, B., W. Greene, **D. Solís**. “Technical Efficiency Analysis Correcting for Biases from Observed and Unobserved Variables: An Application to a Natural Resource Management Project”. *Empirical Economics*, forthcoming.

Kelly, D., D. Letson, F. Nelson, D. Nolan and **D. Solís**. “Evolution of Subjective Hurricane Risk Perceptions: A Bayesian Approach”. *Journal of Economic Behavior & Organization*, 81: 644-663, **2012**.

Bravo-Ureta, B., A. Almeida, **D. Solís** and A. Inestroza. “The Economic Impact of MARENA’s Investments on Sustainable Agricultural Systems in Honduras”. *J. of Agricultural Economics* 62(2): 429-448, **2011**.

Pancholy, N., M. Thomas, **D. Solís** and N. Stratis. “The Impact of Biofuels on the Propensity of Land-Use Conversion among Non-Industrial Private Forest Landowners in Florida”. *Forest Policy and Economics* 13(7): 570-574, **2011**.

Chidmi, B., **D. Solís** and V. Cabrera. “Analyzing the Sources of Technical Efficiency among Heterogeneous Dairy Farms: A Quantile Regression Approach”. *Animal Production* 13(2):99-107, **2011**.

Solís, D., M. Thomas and D. Letson. “An Empirical Evaluation of the Determinants of Household Hurricane Evacuation Choice”. *J. of Development and Agricultural Economics* 2(3): 188-196, **2010**.

Cabrera, V., **D. Solís** and J. del Corral. “Determinants of Technical Efficiency among Dairy Farms in

- Wisconsin". *J. of Dairy Science*, 93(1): 387-393, **2010**.
- Solís, D.**, B. Bravo-Ureta, R. Quiroga. "Technical Efficiency among Peasant Farmers Participating in Natural Resource Management Programs in Central America". *J. of Agricultural Economics* 60(1): 202-219, **2009**.
- Cabrera, V., **D. Solís** and D. Letson. "Selecting an Optimal Crop Insurance Strategy under Climate Variability: Contrasting Insurer and Farmer Interests". *Transaction of the American Society of Agricultural and Biological Engineers* 52(2): 623-631, **2009**.
- Cabrera, V., **D. Solís**, G. Baigorria and D. Letson. "Managing Climate Variability in Agricultural Analysis". **IN** J.A. Long and D.S. Wells, *Ocean Circulation and El Niño: New Research*, p. 163-179, Nova Publishing, Inc., Hauppauge, NY, **2009**.
- Alvarez, A., J. del Corral, **D. Solís** and J.A. Pérez. "Does Intensification Improve the Economic Efficiency of Dairy Farms?" *J. of Dairy Science* 91(9): 3699-3709, **2008**.
- Cabrera, V., R. Hagevoort and **D. Solís**, R. Kirksey and J. Diemer. "Economic Impact of Milk Production in New Mexico". *J. of Dairy Science* 91(5): 2144-2150, **2008**.
- Pomeroy, R., B. Bravo-Ureta, **D. Solís** and R. Johnston. "Bioeconomic Modelling and Salmon Aquaculture: an Overview of the Literature". *International J. of Environment and Pollution* 33(4): 485-500, **2008**
- Solís, D.**, B. Bravo-Ureta and R. Quiroga. "Soil Conservation and Technical Efficiency among Hillside Farmers in Central America: A Switching Regression Model". *The Australian J. of Agricultural and Resource Economics* 51(4): 491-510, **2007**.
- Bravo-Ureta, B., **D. Solís**, V. Moreira, J. Manipani, A. Thiam and T. Rivas. "Technical Efficiency in Farming: a Metaregression Analysis". *J. of Productivity Analysis* 27(1): 57-72, **2007**.
- Alvarez, A., J. del Corral, J.A. Pérez and **D. Solís**. "Efecto de la Intensificación sobre la Eficiencia de las Explotaciones Lecheras". *Economía Agraria y Recursos Naturales* 7(13): 91-106, **2007**.
- Bravo-Ureta, B., **D. Solís**, H. Cocchi and R. Quiroga. "The Impact of Soil Conservation and Output Diversification on Farm Income in Central American Hillside Farming". *Agricultural Economics* 35(3): 267-276, **2006**.
- Solís, D.** and B. Bravo-Ureta. "Economic and Financial Sustainability of Private Agricultural Extension in El Salvador". *J. of Sustainable Agriculture* 26(2): 81-102, **2005**.
- Solís, D.** and J. Díaz. "Los Atributos de las Innovaciones Incorporados en la Metodología de Transferencia Tecnológica". *Panorama Socioeconómico* 19: 53-64, **1999**.
- Díaz, J. and **D. Solís**. "La Globalización y la Sustentabilidad: Nuevos Paradigmas en el Proceso de Modernización Económica". *Revista Universum* 12: 57-78, **1997**.

REFEREED JOURNAL PUBLICATIONS UNDER REVIEW:

- Solís, D.**, L. Perruso, J. del Corral B. Stoffle and D. Letson. "Immediate-term economic impact of hurricanes on the commercial harvest of groupers (*Serranidae*) in the US Gulf of Mexico". *Fishery Bulletin*

WORK IN PROGRESS:

- Solís, D.**, J. del Corral, L. Perruso and D. Letson. "Determinants of Technical Efficiency among Commercial Fisheries Targeting Grouper and Tilefish".
- Bravo-Ureta, B., W. Greene, **D. Solís**. "Impact Evaluation Correcting for Selectivity Bias with Two-Period Panel Data".

ABSTRACTS, TECHNICAL REPORTS AND OTHER PUBLICATIONS:

- Pancholy, N., M. Thomas, **D. Solís** and N. Stratis. "Impact of Biofuels on the Propensity of Land-Use Conversion among Non-Industrial Private Forest Landowners in Florida". Southeast Climate Consortium (SECC) Technical Report 11-001, **2011**.
- Bravo-Ureta, B., A. Almeida, **D. Solís** and A. Inestroza (Abstract). "A Farm Level Analysis of the Economic Impact of the MARENA Program in Honduras". *J. of Agricultural and Applied Economics* 42(3): 585-586, **2011**.
- Cabrera, V., **D. Solís** and J. del Corral (Abstract). "The Effect of Traditional Practices in the Efficiency of Dairy Farms in Wisconsin". *J. of Agricultural and Applied Economics* 42(3): 582, **2010**.
- Solís, D.**, M. Thomas and D. Letson (Abstract) "Determinants of Household Hurricane Evacuation Choice in Florida". *J. of Agricultural and Applied Economics* 41(2): 540, **2010**.
- Kelly, D., D. Letson, F. Nelson, D. Nolan and **D. Solís**. "Evolution of Subjective Hurricane risk Perceptions: A Bayesian Approach". Working Papers 0905, Department of Economics, University of Miami, **2009**.
- Cabrera, V., **D. Solís**, G. Baigorria and D. Letson. "Managing Climate Risks to Agriculture: Evidence from El Niño". SECC Technical Report 09-001, **2009**.
- Cabrera, V. and **D. Solís** (Abstract). "Managing the Newly Created LGM-Dairy Insurance under Seasonal Climate Variability". *Journal of Animal Science* 86 (E-2): 557, **2008**.
- Cabrera, V., **D. Solís** and D. Letson. "Using Crop Insurance to Manage Climate Based Farm Risk: Comparing the Cases of Insurers and Farmers". SECC Technical Report 08-002, **2008**.
- Bravo-Ureta, B., H. Cocchi, **D. Solís**. "Adoption of Soil Conservation Technologies in El Salvador: A Cross-Section and Over-Time Analysis." Inter-American Development Bank, OVE/WP-18/06, **2006**.
- Bravo-Ureta, B., H. Cocchi, **D. Solís**. "Output Diversification among Small-Scale Hillside Farmers in El Salvador." Inter-American Development Bank, OVE/WP-17/06, **2006**.
- Solís, D.** "Household Productivity and Investment in Soil Conservation: Evidence from Small-Scale Hillside Farmers in Central America". Ph.D. Dissertation. U. of Connecticut, **2005**.
- Solís, D.** and B. Bravo-Ureta. "Are Private Farm Management Centers Feasible in El Salvador?" Latin American Studies Consortium of New England, Occasional Paper No. 21, **2003**.
- Bravo-Ureta, B., H. Cocchi, **D. Solís** and T. Rivas. "A Comparative Analysis of Three Resource Management Projects in Central America". Inter-American Development Bank, **2003**.
- Solís, D.** "Rates of Return to Private Agricultural Extension: Evidence from Two Farm Management Centers in El Salvador". M.S. Thesis. U. of Connecticut, **2002**.
- Solís, D.** "Relación entre los Atributos de una Innovación y las Variables Socioeconómicas de sus Adoptantes". Agr. Eng. Thesis. U. of Talca. **1998**.
- Díaz, J., P. Manríquez and **D. Solís** (eds). "Estado, Sociedad y Sector Agrícola". U. of Talca, **1997**.

BOOK REVIEWS:

- Solís, D.** Review of D. Raitzer and G. W. Norton, eds. "Prioritizing Agricultural Research for Development: Experiences and Lessons". CABI. 2009. *J. of Agricultural Economics* 61(1): 247-248, **2011**.
- Solís, D.** Review of "Wind Energy – The Facts: a guide to the technology, economics and future of wind power by The European Wind Energy Association". *International J. of Environment and Pollution (IJEPE)* 43(4): 383–384, **2010**.
- Solís, D.** Review of F. Bresciani and A. Valdés, eds. "Beyond Food Production: The Role of Agriculture in Poverty Reduction". FAO and Edward Elgar. 2007. *J. of Agricultural Economics* 60(3): 717-719, **2009**.

- Solís, D.** Review of J. Barry and R. Eckersley, eds. “The State and Global Ecological Crisis”. The MIT Press. 2005. *IJEP* 37(4): 466-467, **2009**.
- Solís, D.** Review of P. Johnson, K. Mayrand and M. Paquin, eds. “Governing Global Desertification: Linking Environmental Degradation, Poverty and Participation”. Ashgate. 2006. *IJEP* 35(2/3/4): 390-391, **2008**.
- Solís, D.** Review of K. O’Brien and C. Vogel, eds. “Coping with Climate Variability: The Use of Seasonal Climate Forecast in Southern Africa”. Ashgate. 2003. *IJEP* 32(3): 428-429, **2008**.
- Solís, D.** Review of H. Eakin. “Weathering Risk in Rural Mexico: Climatic, Institutional, and Economic Change.” University of Arizona Press. 2006. *Ecological Economics* 64(3): 676-677, **2008**.
- Solís, D.** Review of R. Katz and A. Murphy, eds. “Economic Value of Weather and Climate Forecasts”. Cambridge University Press. 2005. *IJEP* 30(1): 174-175, **2007**.

PRESENTATIONS AT PROFESSIONAL MEETINGS:

- “*The impact of biofuels on the propensity of land-use conversion among non-industrial private forest landowners in Florida*”. SAEA annual Meeting, Corpus Christi, TX, Feb 5-8, **2011**.
- “*Assessing the value of climate information in agriculture using the Stochastic Production Frontier approach*”. 35th NOAA - CDP Workshop, Raleigh, NC, Oct 4-7, **2010**.
- “*Analyzing the Determinants of Technical Efficiency among Traditional Dairy Farms in Wisconsin: A Quantile Regression Approach*”. AAEA annual meeting, Denver, CO, Jul 25–27, **2010**.
- “*The Effect of Traditional Practices in the Efficiency of Dairy Farms in Wisconsin*”. SAEA Meeting, Orlando, FL, Feb 6-9, **2010**.
- “*A Farm Level Analysis of the Economic Impact of the MARENA Program in Honduras*”. SAEA annual Meeting, Orlando, FL, Feb 6-9, **2010**.
- “*Selectivity Bias in Stochastic Production Frontier Models: An Application to Hillside Farmers in Honduras*” XI EWEP, June 23-26, Pisa, Italy, **2009**.
- “*Determinants of Household Hurricane Evacuation Choice in Florida*”. SAEA annual Meeting, Atlanta, GA, Jan 31 - Feb 3, **2009**.
- “*Managing the newly created LGM-Dairy insurance under seasonal climate variability*”. 2008 Joint ADSA-ASAS annual meeting, Indianapolis, IN, July 7-11, **2008**.
- “*Climate Variability and Agricultural Productivity: Evidence from Southeastern US*”. 2008 CPASW, Chapell Hill, NC, Mar 2-6, **2008**.
- “*Optimal Crop-Insurance Strategies under Climate Variability: Contrasting Insurer and Farmer Interests*”. AAEA annual meeting, Portland, OR, Jul 29-Aug 1, **2007**.
- “*Evolution of Subjective Hurricane Risk Perceptions: A Bayesian Approach*”. CNREP annual meeting, New Orleans, May 20-22, **2007**.
- “*Household Efficiency among Small-Scale Farmers in Central America: A Multi-Input Multi-Output Analysis*”. 3rd Spanish Productivity Workshop, Spain, Apr 26-27, **2007**.
- “*Technical Efficiency and Adoption of Soil Conservation in El Salvador and Honduras*”. 26th Conf. of the Inter. Assoc. of Agric. Econ., Queensland, Australia, Aug 12-18, **2006**.
- “*The effect of Soil Conservation on Technical Efficiency: Evidence from Central America*”. AAEA annual meeting, Long Beach, Jul 23-26, **2006**.
- “*Impact of Farming Intensity on the Cost Frontier: Evidence from the Spanish Dairy Sector*”. 4th North American Productivity Workshop, NY, Jun 27-30, **2006**.
- “*Farm Household Efficiency in Central America: A Comparison of Stochastic and Deterministic Approaches*”. Series on Productivity Analysis. U. of Oviedo, Spain, Jul 12, **2005**.
- “*Multi-Output Technical Efficiency for Hillside Farm Households in Central America using SDF and DEA Methods*”. IX EWEP, Brussels, Belgium, June 29 - Jul 1, **2005**.

- “*Bioeconomic Modeling and Salmon Aquaculture*”. International Workshop: Aquaculture, Ecology and Economics: Towards a Sustainable Paradigm. Puerto Varas, Chile, Dec 9-11, **2003**.
- “*Un Análisis Económico del Valor de la Tierra en Chile: Un Enfoque Hedónico*”. 34th Argentinean Agric. Econ. Assoc. annual Meeting, Oct 30-31, **2003**.
- “*A Farm Level Investment Analysis Using Linear Programming*”. Georg-August-Universität Göttingen, Germany, Oct 11, **2003** (by invitation).
- “*Are Private Farm Management Centers Feasible in El Salvador?*” Deutscher Tropentag (**DT**), Göttingen, Germany, Oct 8-10, **2003** (poster).
- “*The Effect of Natural Resource Management Projects on Farm Income: Evidence from Peasant Farmers in Central America*”. **DT**, Göttingen, Germany, Oct 8-10, **2003** (poster).
- “*Rates of Return to Private Agricultural Extension: Evidence from two Farm Management Centers in El Salvador*”. AAEA annual meeting, Montreal, Canada, Jul 27-30, **2003**.
- “*Nuevos Enfoques en las Teorías del Desarrollo: Globalización y Sustentabilidad*”. XXIX Argentinean Agric. Econ. Assoc. annual Meeting. La Plata, Argentina. **1998**.
- “*Los Atributos de las Innovaciones Incorporados en la Metodología de Transferencia Tecnológica*”. III Chilean Agric. Econ. Assoc. annual Meeting, Santiago de Chile, Oct 29-30, **1998**.

EXTERNALLY FUNDED PROJECTS:

- “*Assessing Technical Efficiency for the Longline Fleet Targeting Groupers and Tilefishes in the Gulf of Mexico Reef Fish Fishery*”. Funded by: NOAA, Fisheries. November 2010 – October 2011 (**P.I.**).
- “*Optimizing Future Crop Yield Projections using Weighted Multi-Model Ensemble Approaches: A New Framework for an Integrated Climate Application System*”. Funded by: NSF-USDA. March 2011 – March 2013 (**Co-P.I.**).
- “*Assessing the value of climate information in agriculture using a Stochastic Production Frontier*”. Funded by: NWS Office of Science and Technology (OST) and Office of Climate, Water, and Weather Services (OCWWS). July 2010 – July 2011 (**Co-P.I.**).
- “*Decision Support System for Reducing Agricultural Risks Caused by Climate Variability*”. Funded by: USDA, CSREES. July 2008 – July 2010 (**Co-P.I.**).

STUDENT SUPERVISION:

- Nishita Panchoy (2010), *M.S. Thesis Committee Member*, Florida A&M University.
- Fallon Goff (In progress), *M.S. Thesis Committee Member*, Florida A&M University.