

# Daniel A. Solís, Ph.D.

*Associate Professor and Program Leader*

College of Agriculture and Food Sciences

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## EDUCATION:

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| 2005 | Ph.D.    | Agricultural Economics, University of Connecticut.                    |
| 2002 | M.S.     | Agricultural Economics, University of Connecticut.                    |
| 1999 | Ag. Eng. | Agribusiness, University of Talca - Chile ( <i>Summa Cum Laude</i> ). |
| 1999 | B.S.     | Agribusiness, University of Talca - Chile ( <i>Summa Cum Laude</i> ). |

## AREAS OF INTEREST:

Development and Environmental Economics; Production, Productivity and Efficiency Analysis; Resource, Climate and Weather Economics; and Impact Evaluation.

## LANGUAGES:

English (fluent) and Spanish (native).

## ACADEMIC EMPLOYMENT:

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|--------------|---|
| 2014-present | <i>Associate Professor (2020-present) - Assistant Professor (2014-2020)</i> , Agribusiness Program, College of Agriculture and Food Sciences, Florida A&M University. <ul style="list-style-type: none"><li>▪ <i>Program Leader</i>, Agribusiness Program, 2015-present.</li><li>▪ <i>Faculty Affiliate</i>, Center for Water Resources, 2014-present.</li><li>▪ <i>Faculty Affiliate</i>, Center for Biocontrol, 2019-present.</li></ul> |
| 2006-2014    | <i>Associate Scientist (2012-14) - Assistant Scientist (2006-12)</i> , Division of Marine Affairs and Policy, Rosenstiel School of Marine and Atmospheric Science, University of Miami.   |
| 2008-2014    | <i>Adjunct Faculty</i> , Agribusiness Program, Florida A&M University.  |
| 2005-2006    | <i>Visiting Research Fellow</i> , Department of Economics, U. of Oviedo, Spain.   |
| 1999-2005    | <i>Research Associate</i> , Office of International Affairs, U. of Connecticut.   |
| Summer 2003  | <i>Intern</i> , Inter-American Development Bank, Environment and Natural Resources Management Division, Washington DC.  |
| 1997-99      | <i>Research and Teaching Assistant</i> , Department of Agricultural Economics, U. of Talca.   |

## OTHER ACADEMIC APPOINTMENTS:

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|-------------|---|
| Summer 2016 | <i>Visiting Professor</i> , Department of Economics, University of Castilla-La Mancha, SPAIN. |
| Summer 2014 | <i>Visiting Professor</i> , Department of Agricultural Economics, University of Talca, CHILE. |
| 2007-2014   | <i>Research Fellow</i> , COAPS, Florida State University.                                     |

## AWARDS AND HONORS:

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|------------|---|
| 2022       | <i>Fellow</i> , FAMU-ACUE Cohort III  |
| 2020       | <i>Fellow</i> , Provost Digital Initiative, Florida A&M University.                       |
| 2017       | <i>Emerging Researcher Award</i> , Florida A&M University.                                |
| 2016-17-18 | <i>Most Read Author</i> at Florida A&M University, Research Gate (several weekly report). |
| 2014       | <i>Faculty Research Awards Program (FRAP)</i> , Florida A&M University.                   |
| 2009       | <i>Who's Who in America</i> , Marquis Publications.                                       |

- 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.

#### **CERTIFICATIONS:**

- 2022 Effective Online Teaching Practices, Association of College & University Educators (ACUE).  
 2021 Writing Across the Curriculum, Florida A&M University.  
 2020 Teaching Online (Canvas), Florida A&M University.

#### **MEMBERSHIPS IN PROFESSIONAL SOCIETIES:**

American Agricultural (Agr.) Economics (Econ.) Association (Assoc.); Agr. Econ. Society; Southern Agr. Econ. Assoc.; Florida Climate Institute; Southeast Climate Consortium; EuroMed Academy of Business.

#### **OTHER PROFESSIONAL EXPERIENCE:**

##### Editorial Board Member:

*Economía Agraria*, 2014-present.

*Journal (J.) of Development and Agricultural Economics*, 2009-2015.

##### 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 &amp; 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>Weather, Climate and Society</i>	<i>Agribusiness: an International J.</i>
<i>Economía Agraria y Recursos Naturales</i>	<i>Revista Ciencia e Investigación Agraria</i>
<i>Environmental Engineering &amp; Management J.</i>	<i>Int. Food and Agribusiness Management Review</i>
<i>Ocean &amp; Coastal Management</i>	<i>Canadian Journal of Agricultural Economics</i>
<i>North American J. of Fisheries Management</i>	<i>Review of Industrial Organization</i>
<i>J. of Environment and Development</i>	<i>Land Use Policy</i>
<i>Annals of Public &amp; Cooperative Economics</i>	<i>Latin American Journal of Aquatic Research</i>
<i>Inter-American Development Bank Working Paper Series</i>	

##### Reviewer Book proposal:

Frontiers of Agriculture, Bentham Science Publishers, 2015.

##### Reviewer of Grant Proposals:

USDA - Valued-Added Producer Grant (VAPG), 2021.

NIFA - Agricultural Workforce Training Program (AWT), 2020.  
 USDA - Federal-State Marketing Improvement Program (FSMIP), 2020.  
 The National Fund for Scientific and Technological Development (FONDECYT, Chile), 2020.  
 NSF - Graduate Research Fellowship Program (Panelist), 2019.  
 USDA - SARE, Southern SARE Professional Development Program, 2017.  
 New York Sea Grant, Special Research Call, 2014.  
 Florida Department of Agriculture and Consumer Services. Specialty Crop Block grant, 2014.  
 NOAA - National Marine Fisheries Service. Saltonstall-Kennedy grants, 2013.  
 The National Commission for Scientific and Technological Research (CONICYT, Chile), 2013.

#### Professional Conference Activities:

*Member*, Poster Committee, Southern Agricultural Economics Association (SAEA), 2017-20, 2022-25.  
*SAEA Session Chair*, Session 62: Environmental Economics, 2016; Session 52: Industry and Sector-wide Analysis, 2017; Session 19: Technical Efficiency and Productivity Analysis, 2019.  
*Reviewer*, Proceedings of the 8<sup>th</sup> Annual Conference, EuroMed Academy of Business, 2015.  
*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 Editor*, II Chilean Agric. Economics Association Annual Meeting, 1997.

#### **COURSES TAUGHT AT FLORIDA A&M UNIVERSITY:**

##### ***GRADUATE COURSES:***

AGG 5825: *Statistical Methods in Research I*, Fall 2014 – Fall 2021.  
 AGG 5827: *Statistical Methods in Research II*, Spring 2014,15,16.  
 AEB 5555: *Econometrics*, Fall 2012, Fall 2021.  
 AEB 5185: *Advanced Agricultural Production Economics*, Spring 2009.

##### ***UNDERGRADUATE COURSES:***

AEB 2104: *Economics of Agriculture*, Fall and Spring 2008 to present.  
 AEB 3305: *Global Marketing of Agricultural Products*, Spring 2013.  
 AEB 3143: *Agricultural Finance*, Spring 2015-16.  
 AEB 3331: *Agricultural Prices*, Spring 2017.  
 AEB 3949: *Agribusiness Internship*, Spring 2019 to present.  
 AEB 4283: *International Development Policy*, Spring 2010, Spring 2013, Fall 2014.  
 AEB 4906: *Problems in Agricultural Economics*, Spring 2016.  
 AGG 2004: *Introduction to Agricultural Sciences*, Fall 2014.  
 AGG 4950: *Overseas Studies*, Spring 2017.

**COURSES TAUGHT AT OTHER INSTITUTIONS:**

*Impact Evaluation (e-learning)*, Summer 2013, FAO.  
*Quantitative Methods*, Summer 2003, U. of Göttingen (Germany).  
*Cost-Benefit Analysis*, Summer 2000-02, U. of Connecticut.  
*Agricultural Economics*, Fall 1998, Fall 1999, U. of Talca (Chile).

**NEW COURSE DEVELOPMENT:**

AEB 2104: Economic of Agriculture – Gen Ed in Social Sciences, Approved by FAMU, September 2020.  
 AEB 2104: Economic of Agriculture – ONLINE, Approved by FAMU, November 2017.  
 AEB 4283: International Development Policy, Approved by FAMU, 2009.

**NEW MINOR AND CONCENTRATION DEVELOPMENT:**

Concentration in Agribusiness for the B.S. in Agricultural Sciences, Approved by FAMU, November 2020.  
 Minor in Global Agriculture (with H. Paul), Approved by FAMU, April 2017.  
 Minor in Agribusiness, Approved by FAMU, November 2015.

**CURRICULUM DEVELOPMENT:**

Re-design of the Academic Curriculum for Agribusiness Programs, Approved by FAMU, April 2018.

**REFEREED (PEER-REVIEWED) JOURNAL PUBLICATIONS (TOTAL 42):**

- Solís, D.**, K. Bisack, J. Walden, P. Richards and J. Agar. Measuring the Economic Abatement Cost of Sea Turtle Bycatch in the Northwest Atlantic Commercial Pelagic Longline Fishery. *Marine Policy* 133: 104734. **2021**.
- Bravo-Ureta, B., M. González-Flores, W. Greene, **D. Solís**. Technology and Technical Efficiency Change: Evidence from a Difference in Differences Selectivity Corrected Stochastic Production Frontier Model. *American Journal of Agricultural Economics*. 103(1): 362–385. **2021**.
- Solís, D.**, J. Agar. and J. del Corral. Diversification, Efficiency and Productivity in Catch Share Fisheries. *Fishery Research* 226: 105532. **2020**.
- Alvarez, S., **D. Solís** and J. Hwang. Modeling Shellfish Harvest Policies for Food Safety: Wild Oyster Harvest Restrictions to Prevent Foodborne *Vibrio Vulnificus*. *Food Policy* 83:219-230. **2019**.
- Agar, J., M. Shivilani, C. Fleming, and **D. Solís**. Small-scale Fishers' Perceptions about the Performance of Seasonal Closures in the Commonwealth of Puerto Rico. *Ocean and Coastal Management* 175:33-42. **2019**.
- Alvarez, S., F. Lupi, **D. Solís** and M. Thomas. Valuing Provision Scenarios of Coastal Ecosystem Services: The Case of Boat Ramp Closures Due to Harmful Algae Blooms in Florida. *Water* 11(6), 1250. **2019**.
- Bourassa, M., T. Meissner, I. Cerovecki, P. Chang, X. Dong, G. de Chiara, C. Donlon, D. Dukhovskoy, J. Elya, A. Fore, M. Fewings, R. Foster, S. Gille, B. Haus, S. Hristova-Velva, H. Holbach, Z. Jelenak, J. Knaff, S. Kranz, A. Manaster, M. Mazloff, C. Mears, A. Mouche, M. Portabella, N. Reul, L. Ricciardulli, E. Rodriguez, C. Sampson, **D. Solís**, A. Stoffelen, M. Stukel, B. Stiles, D. Weissman and F. Wentz F. Remotely Sensed Winds and Wind Stresses for Marine Forecasting and Ocean Modeling. *Frontier in Marine Science* 6:443 (doi: 10.3389/fmars.2019.00443). **2019**.

- Alvarez, S., M. Bampasidou and **D. Solís**. “Evaluating the Impact of Employing Local Tax Collectors to Improve State-Level Licensing Program Outcomes in Florida.” *Evaluation Review* 43(1-2): 77–107. **2019**.
- Alvarez, S. and **D. Solís**. Rapid Response Lowers Eradication Costs of Invasive Species: Evidence from Florida. *Choices* 33(4). **2018**.
- Jara-Rojas, R., B. E. Bravo-Ureta, **D. Solís** and D. Martínez. Technical Efficiency and Marketing Channels among Small-Scale Farmers: Evidence for Raspberry Production in Chile. *International Food and Agribusiness Management Review* 21(3) 351–364. **2018**.
- Agar, J., M. Shrivani and **D. Solís**. The Commercial Trap Fishery in the Commonwealth of Puerto Rico: An Economic, Social and Technological Profile. *North American Journal of Fisheries Management* 37: 778-788. **2017**.
- Diviate, N., **D. Solís**, M. Thomas, S. Alvarez and D. Harding. An Economic Analysis of the Impact of Cogongrass among Non-Industrial Private Forest Landowners in Florida. *Forest Science* 63(2): 201-208. **2017**.
- Mhina, G., N. Leppla, M. Thomas and **D. Solís**. Cost Effectiveness of Biological Control of Invasive Mole Crickets in Florida Pastures. *Biological Control* 100: 108-115. **2016**.
- Alavez, S., E. Rohrig, **D. Solís** and M. Thomas. “Citrus Greening Disease (Huanglongbing) in Florida: Economic Impact, Management, and the Potential for Biological Control”. *Agricultural Research* 5(2), 109-118. **2016**.
- Mhina, G., N. Leppla, M. Thomas and **D. Solís**. Biological Control of Invasive Mole Crickets in Florida Pastures: Well worth the Cost. *The Florida Cattleman & Livestock Journal* 81(1): 55-58. **2016**.
- Solís, D.**, J. Agar and J. del Corral. “ITQs and Total Factor Productivity Changes: The Case of the Gulf of Mexico Red Snapper Fishery”. *Marine Policy* 62: 347-357. **2015**.
- Solís, D.**, J. del Corral, L. Perruso and J. Agar. “Individual Fishing Quotas and Fishing Capacity in the US Gulf of Mexico Red Snapper Fishery”. *Australian J. of Agric. and Resource Econ.* 59: 288–307. **2015**.
- Villano, R., E. Fleming, **D. Solís** and B. Bravo-Ureta. “Modern Rice Technologies and Productivity in the Philippines: Disentangling Technology from Managerial Gaps”. *J. of Agricultural Economics* 66(1): 129–154. **2015**.
- Solís, D.**, J. del Corral, L. Perruso and J. Agar. Evaluating the Impact of Individual Fishing Quotas (IFQs) on the Technical Efficiency and Composition of the US Gulf of Mexico Red Snapper Commercial Fishing Fleet. *Food Policy* 46: 74-83. **2014**.
- González, M., B. Bravo-Ureta, **D. Solís** and P. Winters. The Impact of High Value Markets on Smallholder Efficiency in the Ecuadorean Sierra: A Stochastic Production Frontier Approach Correcting for Selectivity Bias. *Food Policy* 44: 237–247. **2014**.
- Kalantari, A., V. Cabrera and **D. Solís**. A Comparison Analysis of Two Alternative Dairy Cattle Replacement Policies: Optimization versus Simulation. *Economía Agraria* 18:12-24. **2014**.
- Solís, D.**, L. Perruso, J. del Corral, B. Stoffle and D. Letson. Measuring the Initial Economic Effects of Hurricanes on Commercial Fish Production: The US Gulf of Mexico Grouper (*Serranidae*) Fishery. *Natural Hazards* 66 (2): 271-289. **2013**.
- Solís, D.** and D. Letson. Assessing the Value of Climate Information and Forecasts for the Agricultural Sector in the Southeastern United States: Multi-Output Stochastic Frontier Approach. *Regional Environmental Change*. 13 (Supplement 1): 5-14. **2013**.
- 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* 43(1): 55-72, **2012**.

- 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(2): 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**.
- 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**.

**BOOK CHAPTERS:**

- Asseng, S., **D. Solís** and others. Chapter 7: Agriculture and Climate Change in the Southeast USA. IN K. Ingram, K. Dow, L. Carter and J. Anderson (eds.), *Climate of the Southeast United States: Variability, change, impacts, and vulnerability*, p.128-164, Island Press, Washington DC, **2013**.
- Cabrera, V., **D. Solís**, G. Baigorria and D. Letson. Chapter 7: 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**.

**REFEREED JOURNAL PUBLICATIONS UNDER REVIEW:**

- Solís, D.**, K. Bisack, J. Walden, P. Richards and J. Agar. Measuring the economic abatement cost of sea turtle by-catch in the Northwest Atlantic Commercial Pelagic Longline Fishery. *Marine Policy*.

**WORK IN PROGRESS:**

- Lachaud, M., **D. Solís** and M. Thomas. IPM and Provision of Public Goods in Florida.  
Thomas, M., Lachaud, M., and **D. Solís**. Economic Impact of IPM Strategies and Emerging Research.

**EXTENSION PUBLICATIONS, TECHNICAL REPORTS, POPULAR ARTICLES AND ABSTRACTS:**

- Solís, D.**, “Experts Weigh in on Current Job Market Trends” <https://www.zippia.com/agricultural-engineer-jobs/trends/>. Zippa.com, December. 2020.
- Solís, D.**, “Money Tips for College Students: Tip #2: Credit Cards, or Debit Cards? That is the question!” FAMU SDA Newsletter 5 (2), **2016**.
- Solís, D.**, “Money Tips for College Students: Tip #1: Make a Budget and Stick to It!” FAMU SDA Newsletter 5 (1), **2016**.
- 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 (IJEP)* 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 AND SEMINARS:

- “Measuring the economic abatement cost of sea turtle by-catch in the Northwest Atlantic Commercial Pelagic Longline Fishery”. Socioeconomic and Policy Research Workshop, NFSC-NOAA. Woods Hole, MA, February 25, **2021**. (Virtual due to COVID-19).
- “Assessing the technical efficiency of higher education systems: a cross-country evaluation” XXIX Jornadas de la Asociación de Economía de la Educación, Zaragoza (Spain), July 2-3, **2020**. (Virtual due to COVID-19).
- “Small-scale fishers' perceptions about the performance of seasonal closures in the commonwealth of Puerto Rico”, SAEA Meeting, Louisville, KY, February 1-4, **2020**.
- “Diversification, efficiency and productivity in catch share fisheries” SAEA Meeting, Birmingham, AL, February 2-5, **2019**.



- “*Partial Technical Efficiency Analysis and Agricultural Productivity Across the Southern States in the US: A Comparative Analysis*”. SAEA Meeting, Birmingham, AL, February 2-5, **2019**.
- “*Eliciting Value of Urban Forest in Developing Countries: A Case Study from the Philippines*”. SAEA Meeting, Birmingham, AL, February 2-5, **2019**. (Poster)
- “*Diversification, efficiency and productivity in catch share fisheries*”, X NAPW Meeting, Miami, FL, June 12-15, **2018**.
- “*Evaluating the impact of the Grouper-Tilefish Individual Fishing Quota program on the fishing capacity of the US Gulf of Mexico reef-fish fishery: 2005-2014*”, X NAPW Meeting, Miami, FL, June 12-15, **2018**.
- “*Did Capital Savings Run its Course in the Red Snapper IFQ Fishery? Lessons Learned after 10 Years*”, SAEA Meeting, Jacksonville, FL, February 3-6, **2018**.
- “*Technology and Management Gaps Using Stochastic Frontiers with 2-Round Panel Data: Preliminary Evidence from An Agricultural Development Project*”. 15<sup>th</sup> EWEP, London, UK, June 12-15, 2017.
- “*A Bioeconomic Model of Shellfish Harvests Regulated for Food Safety*”. SAEA Meeting, Mobile, AL, February 4-7, **2017**.
- “*An Economic, Social and Technological Characterization of the Puerto Rican Commercial Trap Fishery*”. SAEA Meeting, Mobile, AL, February 4-7, **2017**.
- “*Willingness to Pay for Greenways and Trails: Tallahassee, Florida Experience*”. SAEA Meeting, Mobile, AL, February 4-7, **2017**. (poster)
- “*¿Es tan Ineficiente el Sistema universitario público español?*” XXIV Encuentro de Economía Pública, Toledo, SPAIN, Jan 26-27, **2017**.
- “*Cost effectiveness of biological control: invasive mole crickets in Florida pastures*”, ESA-SEB annual meeting, Raleigh, North Carolina, March 13-16, **2016**.
- “*Commercialization decisions and production efficiency among small-scale raspberry producers in Central Chile*”, SAEA Meeting, San Antonio, TX, February 6-9, **2016**.
- “*The Economic Impact of Cogongrass among Non-Industrial Private Forest Landowners in Florida*”, SAEA Meeting, San Antonio, TX, February 6-9, **2016**.
- “*The impact of IFQs on the productivity of the US Gulf of Mexico Red Snapper Fishery*”, XIV EWEP conference, Helsinki, Finland, 15-18 June, **2015**.
- “*People’s willingness to resolve human-bear conflicts in Florida*”, W-3133 annual meeting, Pensacola Beach, Florida Feb 25-27, **2015**.
- “*The impact of IFQs on the productivity of the US Gulf of Mexico Red Snapper Fishery*”, SAEA Meeting, Atlanta, GA, Jan 31 – Feb 3, **2015**.
- “*Can Florida’s citrus industry be saved while preserving the environment? An economic analysis for the bio-control of the Asian Citrus Psyllid*”, SAEA Meeting, Atlanta, GA, Jan 31 – Feb 3, **2015**.
- “*Public Preferences for Improving Water Quality in Spring-Fed Recreational Areas*”, SAEA Meeting, Atlanta, GA, Jan 31 – Feb 3, **2015**.
- “*The Effect of IFQs on the Total Factor Productivity of the US Gulf of Mexico Red Snapper Fishery*”, VI CEP EFIDUCO, Cordova, Spain, May 26-28, **2014**.
- “*The Economic Impact of Extreme Weather on Commercial Fish Production*”, SECC annual meeting, Tallahassee, FL, May 7-9, **2014**.
- “*Reducing Risks in Agriculture: Adapting to Seasonal Climate Variability*”. Department of Agricultural Economics, University of Talca. Talca, Chile, Dec. 18, **2013**. (by invitation)
- “*Evaluating the Impact of Individual Fishing Quotas (IFQs) on the Technical Efficiency and Composition of the US Gulf of Mexico Red Snapper Commercial Fishing Fleet*”. Florida Fishing and Wildlife Research Institute. St. Petersburg, FL. Feb. 20, **2013**. (by invitation)
- “*Modern rice technologies and productivity in the Philippines: disentangling technology from managerial gaps*”. Asia-pacific Productivity Conference, Bangkok, Thailand, July 25-27, **2012**.
- “*Evaluating the impact of high value markets on smallholder efficiency in the Ecuadorean Sierra: A stochastic production frontier approach correcting for selectivity bias*”. IAAE meeting, Foz do Iguacu, Brazil, Aug18-24, **2012**.

- “Short-term economic impact of hurricanes on commercial fish production: the case of the US Gulf of Mexico reef fish fishery targeting grouper”*. 2012 CPASW, Miami, FL, Mar. 13-15, **2012**.
- “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”*. 35<sup>th</sup> 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 EWEPa, 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, Chapel 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”*. 3<sup>rd</sup> Spanish Productivity Workshop, Spain, Apr 26-27, **2007**.
- “Technical Efficiency and Adoption of Soil Conservation in El Salvador and Honduras”*. 26<sup>th</sup> 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”*. 4<sup>th</sup> 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 EWEPa, 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 Econométrico del Valor de la Tierra en Chile: Un Enfoque Hedónico”*. 34<sup>th</sup> 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**.

#### **FUNDED PROJECTS, GRANTS AND CONTRACTS:**

- “*A Cross-Florida Partnership to Assess Socio-Economic Impacts for the Restoration at Robinson Preserve*”. Funded by: The National Fish and Wildlife Foundation (NFWF). (**Co-PI; PI** S. Alvarez, UCF)
- “*Assessment of Animal Protein Growth and Source of Feed*”. Funded by: USDA-FAS. September 2021 – August 31, 2022 (**PI**). \$70,000.
- “*Developing FAMU’s Capacity on Identification and Management of Economically Important Invasive Pest Insects in the Caribbean Countries and Florida*”. Funded by: USDA, NIFA. 2021-23 (**Co-PI; PI**: M. Haseeb, FAMU). \$318,619.
- “*Undergraduate Experiential Learning Program*”. Funded by: US Forest Service. 2020 (**PI**). \$5,000.
- “*The John W. Boyd Scholarship and Student Success Fund*”. 2019-2023 (**PI**). Funded by: SunTrust. \$120,000
- “*Undergraduate Experiential Learning Program*”. Funded by: US Forest Service. 2018-2019 (**PI**). \$10,000.
- “*Measuring the economic abatement cost of sea turtle by-catch in the Northwest Atlantic Commercial Pelagic Longline Fishery*”. Funded by: NOAA, Fisheries. October 2018 – July 2019 (**PI**). \$17,000.
- “*Career Pathways for Agribusiness Students to the Produce and Floral Industry*”. Center for Growing Talent, Produce Marketing Association. 2018 (**PI**). \$6,000.
- “*Resource Allocation under Alternative Access Arrangements*”. Funded by: NOAA, Fisheries. October 2017 – July 2018 (**PI**). \$19,000.
- “*Assessing the Impact of Climatic Effects and Forest Disturbances on Timber Supply in Florida*”. Funded by: USDA, McIntire-Stennis program. September 2017 – September 2018 (**PI**). \$31,000.
- “*The AgEcon Scholars Mentoring Program*”. Funded by: USDA-ERS. 2016-2018 (**PI**). \$30,000.
- “*Technology and Management Gaps Using Stochastic Frontiers with 2-Round Panel Data: A Methodology with Application*”, InterAmerican Development Bank, October 2016 – December 2016 (**PI**) \$17,400.
- “*Evans-Allen Undergraduate Research Assistantship*” Funded by: CAFS-USDA. 2016. \$1,500.
- “*Student Development Funds*”. Funded by: Monsanto Co. 2014-2016 (**PI**). \$15,000.
- “*Climate variability to climate change: Extension challenges and opportunities in the Southeast USA*” Funded by: USDA – NIFA. 2014-2016 (**Co-PI; PI**: M. Thomas, FAMU). \$150,000.
- “*The Effect of IFQs on the Total Productivity of the U.S. Gulf of Mexico Red Snapper Industry*” Funded by: FAMU-SGR. 2014-2015 (**PI**). \$5,500.
- “*Pre-economic analysis of the economic impact of Air-potato: APHIS cooperative agreement*”. Funded by: USDA – APHIS. 2014-2015 (**Co-PI; PI**: M. Thomas, FAMU). \$50,000.
- “*Modeling heterogeneous production processes in the GOM red snapper fishery*” Funded by: NOAA, Fisheries. July 2013 – July 2014 (**P.I.**). \$24,000.
- “*Assessment of capacity in the Gulf of Mexico IFQ red snapper fishery*”. Funded by: NOAA, Fisheries. January 2012 – December 2012 (**P.I.**). \$24,000.
- “*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.**). \$5,000.
- “*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-PI; P.I.** G. Baigorria, U. of Florida). \$150,000.

“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.; PI:** D. Letson, U. Miami). \$100,000.

“Decision support system for reducing agricultural risks caused by climate variability”. Funded by: USDA, CSREES. July 2008 – July 2010 (**Co-P.I.; PI:** D. Letson, U. Miami). \$100,000.

## **STUDENT SUPERVISION:**

### ***Doctoral Committee (2)***

Vanessa Pacheco (exp. 2022), *External Member*, University of Talca (Chile).

Ho Trong Phuc (2021), *Examiner*, School of Agriculture and Environment, The University of Western Australia (Australia).

### ***Master's Committee – Agribusiness (15)***

Lashombria Ellerbee (expected 2023), *Chair*, M.S. Exam Committee.

Roderic Duckworth (expected 2023), *Chair*, M.S. Exam Committee.

Naila McCraney (expected 2022), *Member*, M.S. Thesis Committee [2021 USDA-ERS Scholar; 2020 Women in Agribusiness Student Scholar].

Andrew Miller (expected 2022), *Member*, M.S. Thesis Committee.

Hakeem Homes (expected 2021), *Chair*, M.S. Exam Committee.

Kartik Joshi (2019), *Member*, M.S. Thesis Committee.

Godfred Gakpetor (2019), *Member*, M.S. Thesis Committee.

Gregory McNealy (2018), *Chair*, M.S. Thesis Committee [2017 FFAA Scholar, 2018 USDA-ERS Scholar].

Glyen Holmes II (2016), *Chair*, M.S. Thesis Committee.

Kimberly Marie (2016), *Chair*, M.S. Thesis Committee.

Grace Mhina (2013), *Member*, M.S. Thesis Committee [2<sup>nd</sup> place, 2013 Graduate Student Award, Association of 1890 Research Directors].

Latasha Smith (2013), *Member*, M.S. Exam Committee.

Victoria Smith-Thomas (2013), *Member*, M.S. Thesis Committee.

Falan Goff (2013), *Member*, M.S. Exam Committee.

Nishita Pancholy (2010), *Member*, M.S. Thesis Committee.

### ***Master's Committee – Other Programs (1)***

Jermaine Perier (2019), *External Member*, M.S. Thesis Committee, Entomology FAMU.

## ***UNDERGRADUATE (10)***

Isa Salaam (2021-22) Kayla Braggs (2021, Honors Student), Blade Simpson (2020); Xavier Miranda Colón (2018-19) [2018 FFAA Scholar; 1st place Land'O Lakes Inc. competition, 2019 MANNRS]; Boones Champa (2017); Romario Chisholm (2016); Gerard Gunner (2016); Akilah George (2015-16); Kendall Strickland (2014-15) [2<sup>nd</sup> place, poster competition, 2015 MANNRS; 2<sup>nd</sup> place, poster competition, 2015 CAFS Research Forum]; Mc.Arthur Jones (2014).

**SERVICE TO FLORIDA A&M UNIVERSITY**

*Member, General Education Steering Committee, 2020-21*

*Member, Search Committee, Dean, FAMU's School of Journalism & Graphic Communication, 2017.*

*Member, Research Committee, Faculty Senate, 2017-18.*

*Faculty Senator, 2015-17.*

*Member, Committee-on-Committee, Faculty Senate, 2015-16.*

*Co-Director, Florida Climate Institute branch at Florida A&M University, 2014-15.*

**SERVICE TO THE COLLEGE OF AGRICULTURE AND FOOD SCIENCES (CAFS)**

*Program leader, Agribusiness program, 2015-present.*

*Tenure and Promotion Committee, CAFS, 2021-2023.*

*Early Alert Coordinator, CAFS, 2021-present.*

*Co-Advisor, Florida Farm Bureau Federation Collegiate Chapter at Florida A&M University, 2020-present.*

*Member, CAFS/OIAP-Mercy Corps Selection Committee, 2020.*

*Academic representative, website transition group, 2018-present.*

*Member, Screening and Selection Committee, Director Coordinator, Career Development Services, 2018.*

*Chair, Search Committee, Assistant Professor of Agribusiness, 2016.*

*Co-Chair, Departmental Development Committee, Agribusiness and International Affairs, 2015.*

*Organizing committee, Conference: Pathways to Professions in Agriculture and Food Sciences, 2015-16.*

*Head Judge, Poster and Oral Presentations, CAFS Research Forum, 2015.*

*Co-Advisor, Agribusiness Club, 2014-2016.*

*Administrator, Agribusiness Program's Facebook and Twitter pages, 2014-present.*

*Editor, CAFS' Facebook page, 2014-2017.*

*Member, OIAP-CAFS Semester Exchange Program Committee, 2014-2017.*

*Member, CAFS Graduate Admission Committee, 2014-present.*

*Member, CAFS Curriculum Committee, 2014-present.*

**SERVICE TO THE US GOVERNMENT AND THE STATE OF FLORIDA**

*Volunteer Professional Assistance, US Department of Commerce, NOAA National Marine Service.*

Economic impact of IFQ on commercial fishing, 2012-present (SFSC).

Economic abatement cost of sea turtles, 2020-21 (NFSC).

*Volunteer Professional Assistance, Florida Fishing and Wildlife Conservation Commission.*

People's willingness to avoid a conflict with black bears, 2014-2015.

Economic impact of endanger and rare species in Florida, 2013-2014.

*Volunteer Professional Assistance, Florida Department of Agriculture and Consumer Services.*

Economic impact of invasive species in Florida, 2014-2020.

**SERVICE TO THE PROFESSION**

2017-19 *Board Committee Member*, the Council on Food, Agricultural and Resource Economics.

**VOLUNTEER WORK**

*Volunteer, Boy Scout of America, Summer 2018, 2019.*

*Volunteer, Leon County Schools, 2015-present.*