

**Victor E. Cabrera**

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**SUMMARY**

My ultimate career goal is help rural people to improve their life quality through applied bio-physical, socio-economic, and environmental research and extension. Coming from a farm, I have always been linked to the agricultural and rural sectors and my studies and works have always focused on enhancing these systems.

**EDUCATION**

*University of Florida, Gainesville, FL*

**Ph.D. in Interdisciplinary Ecology****2004**

Concentration in Food & Resource Economics

Dissertation: "Modeling North Florida dairy farm management strategies to alleviate ecological impacts under varying climatic conditions: an interdisciplinary approach"

Adviser: Peter E. Hildebrand

*University of Florida, Gainesville, FL*

**M.S. in Agricultural Education and Communication****1999**

Minor in Farming Systems Research & Extension

Thesis: "Farm problems, solutions, and extension programs for small farmers in Cañete, Lima, Peru"

Adviser: Matthew Baker

*Association Internationale des Maisons Familiales Rurales, Madrid-Paris*

**Post Graduate Course in Administration of Agricultural Schools****1995**

Focus on Agricultural Experiential Learning

Adviser: Pedro Puig

*La Molina Agrarian University, Lima, Peru*

**B.S. in Agronomy Sciences & Engineer****1993**

Concentration in Horticultural Production

Thesis: "Análisis de los factores de producción en el cultivo de Espárrago (*Asparagus officinalis*) en la Pampa de Villacuri (Ica)"

Adviser: Francisco Delgado de la Flor

**AWARDS**

Membership. American Society of Agricultural Engineers **2005**

Outstanding International Student with GPA 4.0/4.0. University of Florida International Center **1998-2004**

Outstanding Contributions to Farming Systems Research in Nicaragua. La Fundación para el Desarrollo Tecnológico Agropecuario y Forestal de Nicaragua. **2002**

Honor and Membership. The Fraternity of Alfa Zeta **1999**

Achievement and Membership. The Honor Society of Agriculture Gamma, Sigma, Delta **1999**

Certificate of Fellowship. W.K. Kellogg Foundation **1997-1999**

Outstanding International Student in Administration of Agricultural Schools. Association Internationale des Maisons Familiales Rurales, Madrid-Paris **1995**

Honor Diploma: 2nd/177th Graduation Rank. La Molina Agrarian University **1993**

## WORK EXPERIENCE

*University of Miami, Miami, FL*

**Post-Doctoral Research Associate** – with the University of Miami and with the South East Climate Consortium (SECC, <http://secc.coaps.fsu.edu/>) under the direction of Dr. David Letson (Based at the University of Florida, Department of Agricultural and Biological Engineering, Gainesville) Developing farm simulation models using optimization methods to evaluate the value of climate forecast information under uncertain conditions of climate, prices, and government farm programs. **2004-**

Collaborating in the development and maintenance of a Web based portal to diffuse climate forecasts and climate-based applications (<http://www.AgClimate.org>).

*University of Florida, Gainesville, FL*

**Teaching Assistant** – to Professor Peter E. Hildebrand in “Economic Analysis of Small Farm Livelihood Systems” (AEB-5167) **1999, 2001-2004**  
Computer labs. Advise students in Projects. Selected lectures. Development of course manual.

**Teaching Assistant** – to Professor Peter E. Hildebrand in “Farming Systems Research & Extension” (AEE 5232) **2002-2004**  
Design and follow-up of on-farm trials with students. Computer labs. Adaptability Analysis for Agricultural Research.

**Research Assistant** – to Professors James W. Jones and Peter E. Hildebrand in applications of seasonal forecasts for enhancing agricultural and environmental systems **2001 - 2004**  
Seasonal climate effects on cow-calf operations in north central Florida.  
Nutrient flows from dairy operations in north Florida and their environmental impacts according to seasonal climate forecasts.

*Inter-American Development Bank, Lima, Peru*

**Consultant** – developing extension programs and training for small farmers in Cañete, Lima, Peru. Project with the Valle Grande Rural Institute Identifying, planning, and implementing extension programs. **1999-2001**  
Direct teaching to farmers in the Cañete community  
Collaboration in the development a geographic information system of the 4,800 farms and 24,000 ha in the Cañete Valley, Peru.  
Faculty duties in the Valle Grande Agricultural Technical College.

*Valle Grande Rural Institute, Cañete, Lima, Peru*

**Professor** – teaching basic and applied courses in Agricultural Technical College **1994-1997**  
20-hour weekly lecturer in a variety of courses, including agronomy-related, agricultural economics, and basic sciences.  
In-school and at-home individual advice of 12 students per semester.  
Collaboration in the management of residence for students.

*Limatambo Farm, Lurin, Peru*

**Manager** – of 32 ha farm specialized in meat, milk, and horticultural production **1993-1994**  
Leading and directing a small farm; including personnel management, production planning, product marketing, and bank accounts.

## INTERNATIONAL TEACHING/CONSULTING EXPERIENCE

*Universidad Veracruzana, Mexico*

**Indexes for Sustainable Development** 2005

One-week participation in open Seminar as Lecturer and Panelist.  
Using Simulation Modeling to Measure and Compare Sustainability of Systems.

*Universidad de Guayaquil, Ecuador*

**Applied Sustainable Rural Development** 2003

Two-week course in a modular Master's program.  
Theoretical and applied methodologies for rural sustainability.  
32 graduate students.

*Universidad Nacional Agraria, Managua, Nicaragua*

**Adaptability Analysis for Small Farm Livelihoods** 2003

One-week course for university professors and national researchers.  
Design, implementation, and analyses of on-farm research.  
29 students.

*Fundación para el Desarrollo Tecnológico Agropecuario y Forestal de Nicaragua*

**Adaptability Analysis for Small Farm Livelihoods** 2002

One-week course for researchers.  
Design, implementation, and analyses of on-farm research.  
34 students.

*CARITAS del Perú, Huancavelica, Perú*

**Farm Management** 2001

Two-week course for farmers.  
Introduction and use of administrative farm tools.  
About 120 students.

*Instituto Nacional de Tecnología Agraria, Managua, Nicaragua*

**Adaptability Analysis Research** 2000

One-week course for government extension agents  
Design, implementation, and analyses of on-farm research.  
28 students.

## PUBLICATIONS

**Cabrera, V.E.**, Breuer, N.E. and Hildebrand, P.E. (accepted). North Florida stakeholder perception toward the use of climate forecast technology, nutrient pollution, and environmental regulations. *Climatic Change* 00, 00-00.

**Cabrera, V.E.**, de Vries, A. and Hildebrand, P.E. (accepted). Manure nitrogen production in North Florida dairy farms: a comparison of three models. *Journal of Dairy Science* 00, 00-00.

**Cabrera, V.E.**, Hildebrand, P.E., Jones, J.W., Letson, D., and de Vries, A. (accepted). An integrated North Florida dairy farm model to reduce environmental impacts under seasonal climate variability. *Agriculture, Ecosystems, and Environment* 00, 00-00.

**Cabrera, V.E.**, Breuer, N.E. Hildebrand, P.E., and Letson, D. 2005. The dynamic north-Florida dairy farm model: a user-friendly computerized tool for increasing profits while minimizing environmental impacts. *Computers and Electronics in Agriculture* 49, 286-308.

**Cabrera, V.E.**, Hildebrand, P.E. and Jones, J.W. 2005. Modeling the effect of household composition on the welfare of limited-resource farmers in Coastal Cañete, Peru. *Agricultural Systems* 86, 207-222.

- Cabrera, V.E.**, Breuer, N., Hildebrand, P.E. 2005. Climate-based management to reduce nitrate leaching from dairies in the Suwannee River Basin. Coop. Ext. Serv. Circ. 1464 Univ. Florida, Gainesville, FL. Available at: <http://edis.ifas.ufl.edu/AE284>.
- Breuer, N., **Cabrera, V.E.**, Hildebrand, P.E., Jones, J.W. 2005. Climate-based management options for north central Florida Beef Cattle Producers. Coop. Ext. Serv. Circ. 1476 Univ. of Florida, Gainesville, FL. Available at: <http://edis.ifas.ufl.edu/AE289>.
- Fraisse, C., Bellow, J., Breuer, N., **Cabrera, V.E.**, Jones, J.W., Ingram, K., Hoogenboom, G. 2005. Strategic plan for the Southeast Climate Consortium extension program. The Southeast Climate Consortium. Technical Report Series 05-02. Gainesville, Florida.
- Barham, J., Gichon, Y., Humphries, S., Rossi, F., Alvira, D., Rios, A. Hildebrand, P.E., **Cabrera, V.E.**, Breuer, N. 2004. Assessment of the format, content, and potential uses of the AgClimate Website and crop yield risk assessment tool by extension agents in north Florida. The Southeast Climate Consortium. Technical Report Series 04-01. Gainesville, Florida. Available at: <http://plaza.ufl.edu/vcabrera/files/assess.pdf>
- Cabrera, V.E.** 2004. Modeling north-Florida dairy farm management strategies to alleviate ecological impacts under varying climatic conditions: an interdisciplinary approach. Ph.D. Thesis. University of Florida, Gainesville, Florida. Available at: [http://etd.fcla.edu/UF/UF0005581/cabrera\\_v.pdf](http://etd.fcla.edu/UF/UF0005581/cabrera_v.pdf).
- Cabrera, V.E.**, Hildebrand, P.E. and Jones, J.W. 2004. Modeling the effect of household composition on the welfare of limited-resource farmers in Cañete, Peru. University of Florida, Food and Resource Economics Department, Staff Paper Series, SP 04-01. Gainesville, Florida. Available at: <http://plaza.ufl.edu/vcabrera/files/SP0401.pdf>
- Hildebrand, P.E., Breuer, N.E., **Cabrera, V.E.** and Sullivan, A.J. 2003. Modeling diverse livelihood strategies in rural livelihood systems using ethnographic linear programming. University of Florida, Food and Resource Economics Department, Staff Paper Series, SP 03-05. Gainesville, Florida. Available at: <http://plaza.ufl.edu/vcabrera/files/elp1.pdf>
- Hildebrand, P.E. and **Cabrera, V.E.** 2003. Modeling and analyzing small farm livelihood systems with linear programming. University of Florida, Food and Resource Economics Department, Staff Paper Series, SP 03-03. Gainesville, Florida. Available at: <http://plaza.ufl.edu/vcabrera/files/aeb5167.pdf>
- Breuer, N.E., **Cabrera, V.E.**, Hildebrand, P.E. and Jones, J.W. 2003. Potential response of north central Florida livestock producers to long-term climate forecasting. The Southeast Climate Consortium. Technical Report Series 01-03. Tallahassee, Florida. Available at: <http://plaza.ufl.edu/vcabrera/files/enso.pdf>.
- Cabrera, V.E.** and Hildebrand, P.E. 2003. Economic and ecologic assessment of groundwater nitrogen pollution from north-Florida dairy farms: an interdisciplinary approach. University of Florida, Food and Resource Economics Department, Staff Paper Series, SP 03-02. Gainesville, Florida. Available at: <http://plaza.ufl.edu/vcabrera/files/nfds.pdf>
- Cabrera, V.E.** and Hildebrand, P.E. 2003. Family dynamics and household welfare in Cañete, Peru. *Agrippa-FAO* 1, 607-615. Available at: [ftp://ftp.fao.org/UPLOAD/AGRIPPA/607\\_EN.pdf](ftp://ftp.fao.org/UPLOAD/AGRIPPA/607_EN.pdf).
- Cabrera, V.E.**, M. Downs, M. Langholtz, A. Mugisha, R. Sandals, A.J. Shriar, and D. Veach. 1999. Potential use of long range climate forecasts by agricultural extension agents in Florida: a Sondeo report. University of Florida, Food and Resource Economics Department, Staff Paper Series, SP 99-09. Gainesville, Florida.
- Cabrera, V.E.** 1999. Farm problems, solutions, and extension programs for small farmers in Cañete, Lima, Peru. M.S. Thesis, University of Florida, Gainesville, Florida. Available at: <http://etd.fcla.edu/etd/uf/1999/amj9816/cabrera.pdf>.

- Cabrera, V.E.** 1994. Análisis de los Factores de Producción en el Cultivo de Espárrago (*Asparagus officinalis*) en la Pampa de Villacurí (Perú). Agro-Enfoque IX-66, Lima.
- Cabrera, V.E.** 1993. Análisis de los Factores de Producción en Espárrago en la Pampa de Villacurí, Ica, Perú. B.S. Thesis. Universidad Nacional Agraria La Molina, Lima. Available at: <http://plaza.ufl.edu/vcabrera/files/tesisvi.pdf>.
- Breuer, N.E., **Cabrera, V.E.**, and Hildebrand, P.E. (In Review) Socioeconomic resilience in an Ecuadorian agrisocioecosystem. *Global Development* 00, 00-00.
- Cabrera, V.E.**, Breuer, N., Hildebrand, P.E., Brown, C., and Fraisse, C.W. (In Review). A Practical Guide to Linear Programming Modeling for Farm Simulation. Coop. Ext. Serv. Circ. 0000 Univ. Florida, Gainesville, FL. Available at: [http://edis.ifas.ufl.edu/Review\\_AE359](http://edis.ifas.ufl.edu/Review_AE359).
- Cabrera, V.E.**, Breuer, N.E. and Hildebrand, P.E. Participatory modeling of North Florida dairy farm systems: a method for building climate variability into farm models. *Urban Anthropology and Studies of Cultural Systems and World Economic Development*. Submitted.
- Cabrera, V.E.**, Jagtap, S. and Hildebrand, P.E. Climate forecast driven strategies to limit nitrogen leaching in North Florida dairy crop systems. *Agricultural and Forest Meteorology*. Submitted.
- Cabrera, V.E.**, Letson, D., Podesta, G. The value of the climate information when Farm Programs matter. *Agricultural Systems*. Submitted.
- Fraisse, C. W., Bellow, J. G., Breuer, N., **Cabrera, V. E.**, Hatch, L., Hoogenboom, G., Ingram, K., Jones, J. W., O'Brien, J.J., Paz, J., Zierden, D. AgClimate: A Climate Forecast Information System for Agricultural Risk Management in the Southeastern USA. *Computer and Electronics in Agriculture*. Submitted.
- Cabrera, V.E.**, Fraisse, C., Letson, D., Podesta, G., Novak, J. Impact of climate information in reducing farm risk by selecting crop insurance programs. *Transactions of ASAE*. To be submitted.
- Cabrera, V.E.**, Breuer, N.E., Bellow, J.G., Fraisse, C. Extension agents' knowledge and perception about seasonal climate forecast in Florida. *Journal of Extension*. To be submitted.

#### PAPERS PRESENTED AT CONFERENCES

- Cabrera, V.E.**, Breuer, N.E. Hildebrand, P.E., and Letson, D. The dynamic North Florida dairy farm model: A user-friendly computerized tool for increasing profits while minimizing N leaching under varying climatic conditions. American Farm Bureau Federation, 87<sup>th</sup> Annual Convention. January 2006, Nashville, Tennessee.
- Cabrera, V.E.**, Fraisse, C., Letson, D., Podesta, G., Novak, J. Impact of climate information in reducing farm risk by selecting crop insurance programs. Paper accepted to the U.S. Climate Change Science Program Workshop. Climate Science in Support of Decisionmaking. November 2005, Arlington, Virginia.
- Cabrera, V.E.**, Letson, D., Podesta, G. 2005. Climate information to reduce farm risk. The Society for engineering in agricultural, food, and biological systems. ASAE Meeting Presentation Paper Number: 053057. July 2005, Tampa, Florida.
- Cabrera, V.E.** Towards proactive environmental protection: the case of north Florida dairy farms and groundwater nitrogen pollution. Society for Applied Anthropology Annual Meeting. April 2005, Santa Fe, New Mexico.

- Cabrera, V.E.** and Letson, D. The value of climate information when farm programs matter. Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. March 2005, Columbia University, Palisades, New York.
- Fraisse, C., Bellow, J., Breuer, N., **Cabrera, V.E.**, Hoogenboom, Ingram, K. A vision for the Southeast Climate Consortium Extension Program. Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. March 2005, Columbia University, Palisades, New York.
- Jones, J.W., Fraisse, C., Hildebrand, P.E., Breuer, N., **Cabrera, V.E.**, O'Brien, J.J. User-driven research and agricultural system decision support. American Association for the Advancement of Science Annual Meeting. February 2005, Washington, D.C.
- Cabrera, V.E.** and Hildebrand, P.E. Economic and ecologic assessment of groundwater nitrogen pollution from north Florida dairy farm systems: an interdisciplinary approach. Sixth IFSA European Symposium of the Farming Systems and Rural Systems Research and Extension. April 2004, Vila Real, Portugal. Available at: [http://home.utad.pt/~des/ifsa/ifsa\\_6th\\_eu\\_proceed.pdf](http://home.utad.pt/~des/ifsa/ifsa_6th_eu_proceed.pdf).
- Cabrera, V.E.** Participatory modeling of north Florida dairy farm systems. Society for Applied Anthropology Annual Meeting. March 2004, Dallas, Texas.
- Cabrera, V.E.**, Hildebrand, P.E. and Jones, J.W. El Niño southern oscillation impact on nitrogen leaching in north Florida dairy forage systems. Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. March 2004, Tallahassee, Florida.
- Breuer, N.E., **Cabrera, V.E.**, Hildebrand, P.E. Continuous stakeholder feedback: improving adoption and user-friendliness of climate variability-based information and tools for livestock production. Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. March 2004, Tallahassee, Florida.
- Cabrera, V.E.** Economic and ecologic assessment of groundwater nitrogen pollution from north Florida dairy farm systems: an interdisciplinary approach. The 68<sup>th</sup> Annual Meeting of the Florida Academy of Sciences. March 2004, Orlando, Florida.
- Cabrera, V.E.** and Jones, J.W. El Niño Southern Oscillation impact on nitrogen leaching in north Florida dairy farm systems. Biological Systems Simulation Conference. March 2004, Gainesville, Florida.
- Cabrera, V.E.** and Hildebrand, P.E. Modeling family dynamics and household welfare in Cañete, Peru. 17<sup>th</sup> Symposium International Farming Systems Association, November, 2002, Orlando, Florida.
- Cabrera, V.E.**, Breuer, N.E., Hildebrand, P.E. Assessing the impact of long-term climate forecasting on north central Florida livestock producers using linear programming. International Workshop on Regional Integrated Assessment of Climate Impacts. Castelvecchio, September 2002. Pascoly, Italy.
- Cabrera, V.E.**, Baker, M. and Hildebrand, P.E. Formative evaluation of Valle Grande Rural Institute. 27<sup>th</sup> National Agricultural Education Research Conference. December 2000, San Diego, California.
- Cabrera, V.E.** Baker, M., Hildebrand, P.E. Farm problems, solutions, and extension programs for small farmers in Cañete, Peru. 16<sup>th</sup> Conference of the Association for International Agricultural and Extension Education. April 2000, Arlington, Virginia.
- Cabrera, V.E.** Modeling diversity within an agricultural community in Peru. 4<sup>th</sup> Biennial Meeting of the North American Chapter, International Farming Systems Association. October 1999, Guelph, Canada.