

# Jorge L. Lugo-Camacho

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## Education

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- B.S. Agronomy, 1991 'Magna Cum Laude' (3.44 GPA)  
University of Puerto Rico-Mayagüez Campus  
Mayagüez, PR 00681
- M.S. Soil Science, May 2005 (4.00 GPA)                      Thesis: The Soil Climate Regimes of Puerto Rico-  
University of Puerto Rico-Mayagüez Campus                      Reassessment and Implications.  
Mayagüez, PR 00681

## Professional Experience

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MLRA Soil Scientist Project Leader 2008 – Present                      United States Department of Agriculture-Natural  
(Full Time, 40 hr. / wk.)                      Resources Conservation Service, Mayagüez MLRA Soil  
Survey Office  
2200 Pedro Albizu Campos Ave., Apt. 23 Mayagüez,  
Puerto Rico 00680-5470

- As a MLRA Soil Survey Project Leader I am responsible for all administrative and technical phases of the Caribbean Area Soil Survey Update (Puerto Rico and USVI) by Major Land Resource Areas (Humid Mountains and Valleys; Semiarid Mountains and Valleys; Humid Coastal Plains; and Semiarid Coastal Plains.
- In absence of the State Soil Scientist of the Caribbean Area, serve as a State Soil Scientist and be responsible for the administrative and technical phases of the soil survey and NRI programs in the Caribbean Area.
- Responsible for prepare project proposals for each MLRA area.
- I perform order II soil survey mapping update, prepare and update soil survey documentation such as: soil pedon descriptions, official soil series descriptions, soil transects and soil sampling.
- Responsible for the data assembly, interpretation and editing of the Soil Survey Handbook and Soil Database for the updated areas.
- Provide technical assistance in soil interpretations for the application of conservation practices and wetlands determinations to Field Offices, and provide support and maintenance to the weather stations of the Soil Climate Analysis Network in Puerto Rico and the United States Virgin Islands.

Resource Soil Scientist                      1997 – 2008                      United States Department of Agriculture-Natural  
(Full Time, 40 hr. / wk.)                      Resources Conservation Service, Mayagüez Soil Survey  
Office  
2200 Pedro Albizu Campos Ave., Apt. 23 Mayagüez,  
Puerto Rico 00680-5470

- As a Soil Survey Project Leader I am responsible for all administrative and technical phases of the Soil Survey Project Update of the Southwestern Puerto Rico.
- I perform order II soil survey mapping update, prepare and update soil survey documentation such as: soil pedon descriptions, official soil series descriptions, soil transects and soil sampling.
- Responsible for the data assembly, interpretation and editing of the Soil Survey Handbook and Soil Database for the survey area.

- Provide technical assistance in soil interpretations for the application of conservation practices and wetlands determinations to Field Offices, and provide support and maintenance to the weather stations of the Soil Climate Analysis Network in Puerto Rico and the United States Virgin Islands.

Soil Scientist                      1995 – 1997  
(Full Time, 40 hr. / wk.)      United States Department of Agriculture-Natural Resources Conservation Service, Mayagüez Soil Survey Office  
2200 Pedro Albizu Campos Ave., Suite 102 Mayagüez, Puerto Rico 00680-5470

- Perform order II soil survey mapping update of the Soil Survey Project Update of the Southwestern Puerto Rico.
- Prepared soil survey documentation such as: soil pedon descriptions, soil transects and soil sampling.
- Assisted the Project Leader on the data assembly, interpretation and editing of the Soil Survey Handbook for the survey area.
- Assisted the Project Leader providing technical assistances in soil interpretations for the application of conservation practices to Field Offices and on the maintenance of the weather stations of the Global Change Project in the United States Virgin Islands.

Soil Scientist                      1994-1995  
(Full Time, 40 hr. / wk.)      United States Department of Agriculture-Natural Resources Conservation Service, Bainbridge Field Office, 1213 Vada Road, Bainbridge, Georgia 31717

- In the absent of the Project Leader and only staff member I was responsible for all administrative and technical phases of the Decatur and Grady Counties Soil Survey Project.
- Perform order II soil survey mapping, prepare and update the soil survey documentation such as: soil pedon descriptions and soil transects.
- Responsible for the data assembly, interpretation and editing of the Soil Survey Handbook for the survey area.
- Assisted the Area Office staff performing Wetland Determinations (on-site investigations) and providing technical assistance in soil interpretations for the application of conservation practices to four Field Offices.

Soil Scientist                      1993-1994  
(Full Time, 40 hr. / wk.)      United States Department of Agriculture-Soil Conservation Service, Colorado County Soil Survey Office, 316 Spring Street, Columbus, Texas 78934

- Performed order II soil survey mapping at the Colorado County Soil Survey Project.
- Prepared soil survey documentation such as: soil pedon descriptions and soil transects.
- Assisted the Project Leader on the data assembly, interpretation and editing of the Soil Survey Handbook for the survey area.
- Assisted on the installation and data collection of two Water Table Study Sites.
- Assisted on the preparation and presentation of several 4H Land Judging Contests.
- Assisted the Project Leader providing technical assistance in soil interpretations for the application of conservation practices to the Field Office.

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| Soil Scientist | 1991-1993<br>(Full Time, 40 hr. / wk.) | United States Department of Agriculture-Soil Conservation Service, Las Vegas Field Office, Parc Place Professional Complex, 5820 South Pecos Rd., Building A, Suite 400, Las Vegas, Nevada 89120 |
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- Performed order III soil survey mapping at the Clark County Soil Survey Project.
  - Prepared soil survey documentation such as: soil pedon descriptions, soil traverses, official series descriptions and soil interpretation records.
  - Assisted the Project Leader on the data assembly, interpretation and editing of the Soil Survey Handbook for the survey area.
  - Assisted the Project Leader providing technical assistance in soil interpretations for the application of conservation practices to the Field Office.
  - Provide support and assistance on the field data collection to the Project Leader on the Snow Survey Program at the Toiyabe National Forest.
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| Soil Analyst (Chemistry) | Summer 1990<br>(Full Time, 40 hr. / wk.) | University of Puerto Rico-Mayagüez Campus, College of Agricultural Sciences, Agronomy and Soils Department, P.O. Box 9025, Mayagüez, Puerto Rico 00681-9025 |
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- Perform laboratory soil analysis which includes: soil pH, nutrient deficiency and toxicity determinations.
  - Responsible for the collection of soil samples in the field and the preparation of these samples for laboratory analysis.
  - Maintenance of laboratory equipment.
  - Maintain records for the different analysis.
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| Stock Person | Summer 1989<br>(Part Time, 30 hr. / wk.) | Guaynia Supermarkets, Inc., Muñoz Rivera Street, Santa Elena Mall, Guayanilla, Puerto Rico, 00656 |
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- Provide courteous and quality customer service which involved packing and transporting purchased merchandise and responding to questions concerning the supermarket's goods and services.
  - Maintain display shelves properly stocked and arranged.
  - Assisted in the store maintenance and sanitation.
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| Egg packer and distributor | 1986-1987<br>(Part Time, 30 hr. / wk.) | La Yaucana Farm, Almácigo Bajo Ward, Yauco, Puerto Rico 00698 |
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- Perform, supervise and maintain records for the packing and classification of the egg production from 20,000 bird semi-automated layer operation.
  - Distribute eggs to retail outlets throughout the south and west of Puerto Rico.
  - Perform administrative paperwork associated with the sale of eggs to retailers.
  - Perform farm equipment maintenance.
  - Receive and store farm materials such as feed.

## Volunteer Professional Experience

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Professor Ad Honorem	January 2007 – July 2008	University of Puerto Rico Mayagüez Campus, Agronomy and Soil Science Department P.O. Box 9032 Mayagüez, Puerto Rico 00680
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- Provided conference lectures in Soil Taxonomy classification system and basis concepts of soil science at the following subgraduate and graduate courses:
  1. AGRO 3005- General Soils.
  2. AGRO 4005- Soil and Water Conservation.
  3. AGRO 4018- Physical and Chemical Soil Properties
  4. AGRO 5006- Genesis, Morphology and Formation of Soils
  5. AGRO 5008- Soils of Puerto Rico
  6. AGRO 6607- Soil Chemistry
  7. AGRO 6624- Soil Mineralogy
- Provided advisory assistance and technical guidance to 2 graduated students as a committee member.

Winrock Volunteer, Farmer to Farmer Program Nicaragua, C.A.	Fall 2006 (Short Term Assignment) 2 weeks	Winrock International Reparto Lomas de Guadalupe Del Centro Finarca 2c. al Lago, ½ c. arriba, Casa # 23 Managua, Nicaragua, C.A.
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- Provided conference lectures in Soil Taxonomy classification system at the National Agrarian University at Managua.
- Established linkages of cooperation between the National Agrarian University (UNA), the Nicaraguan Institute of Earth Studies of the Nicaragua Department of Agriculture (INITIER), the Centro American University (UCA), the Regional Center of Camoapa and Representatives of the City Government of Boaco and Santa Lucía cities.
- Created the necessary conditions to establish the first stage of a project formulation to conform a membership in the Soil Science Association.
- Established a registration of soil orders, suborders, great groups and subgroups in Nicaragua with agricultural purposes.
- Provided training to the university professors (UNA and UCA), to field soil scientists (INITIER) and to undergraduate and graduate students in Soil taxonomy (USDA) and FAO soil classification systems.
- Described soil profiles in the field in order to update their current classification due to the new revisions of Soil Taxonomy.

Winrock Volunteer, Farmer to Farmer Program Nicaragua, C.A.	Summer 2005 (Short Term Assignment) 2 weeks	Winrock International Reparto Lomas de Guadalupe Del Centro Finarca 2c. al Lago, ½ c. arriba, Casa # 23 Managua, Nicaragua, C.A.
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- Provided technical assistance in soil interpretations for the application of management practices to several projects implemented by Catholic Relief Services with local partners at the Departments of Estelí, Matagalpa and Jinotega.
- Conducted a one-day seminar for local agronomists and agricultural extensionists. The topics covered were Soil Taxonomy, Soil Survey, and Soil Interpretations with a field session on Soil Profile Descriptions and Soil Sampling techniques for soil characterization.

## Professional Organizations & Committees

- National Organization of Professional Hispanic Soil Conservation Service Employees (Charter Member, 1991-1994)
- National Organization of Professional Hispanic Natural Resources Conservation Service Employees (Member, 1994-1998), (President of the Caribbean Area Region, 1998)
- Professional Soil Scientists Association of Texas (Member, 1994)
- Professional Soil Scientists Association of Georgia (Member, 1994-1995)
- “Colegio de Agrónomos de Puerto Rico” (Member, 2000-Present)
- Florida Association of Environmental Soil Scientists (Member, 2000-Present)
- Puerto Rico Society of Agricultural Sciences (SOPCA) (Member, 2004-Present)
- Soil Science Society of America (SSSA) (Member, 2004-Present)

## Job Related Certificates and Licenses

- Agronomist’s License # 3450 (Commonwealth of Puerto Rico). Expedited on August 1, 1991.
- Certified Professional of Tree Planting and Reforestation (PSF-123) (Puerto Rico Department of Environmental and Natural Resources). Expedited on April 8, 2003.

## Accomplishments and Awards

- Deans List 1988 to 1991.
- Honor Student-Agriculture Faculty 1987 to 1991 (University of Puerto Rico-Mayagüez Campus).
- Honor Student-Agriculture Appreciation Week 1988 (University of Puerto Rico-Mayagüez Campus).
- College Graduation: University of Puerto Rico-Mayagüez Campus, Magna Cum Laude-GPA Overall 3.44/4.00, GPA in Major Area 3.89/4.00; Luis de Celis Award (for the best student in the Agronomy and Soil Science Department), Mayagüez, Puerto Rico-June 8, 1991.
- Certificate of Appreciation and a Soil Survey Belt Buckle for commendable performance in providing effective and quality assistance in completing a large quantity of the Colorado County Soil Survey, Columbus, Texas-May 4, 1994.
- Certificate of Merit and \$250.00 Cash Award for the team work performance in the advancement of Soil Surveys in the Caribbean Area FY-1995, Lajas, Puerto Rico-December 4, 1996.
- Certificate in recognition of Five Years of service in the Government of the United States of America, Mayagüez, Puerto Rico-May 14, 1997.
- Certificate of Merit and \$500.00 Cash Award for “Extra Effort” in the Implementation of the Fiscal Year 1999 NRI Program in the Caribbean Area, San Juan, Puerto Rico-December, 1999.
- Certificate of Merit and \$500.00 Cash Award for “Extra Effort” in the Implementation of the Fiscal Year 2000 Soil Survey Program in the Caribbean Area, San Juan, Puerto Rico-December, 2000.
- Certificate in recognition of the completion of Ten Years of service as a Federal Employee, San Juan Puerto Rico-November, 2001.

- Certificate of Appreciation for active participation making possible the update of the soil classification for all the soil series in the Caribbean Area, San Juan, Puerto Rico-November 19, 2002.
- Certificate of Appreciation for the participation as Instructor in the Soil Taxonomy course at the National Agrarian University, Managua, Nicaragua-March 7, 2006.
- Certificate in recognition of the completion of Fifteen Years of service as a Federal Employee, San Juan Puerto Rico-November, 2006.
- \$500.00 Cash Award for “Extra Effort” in the Implementation of the Fiscal Year 2006 Soil Survey Program in the Caribbean Area, San Juan, Puerto Rico-February, 2007.
- \$700.00 Cash Award for Superior Performance during Fiscal Year 2007, San Juan, Puerto Rico-December 20, 2007.
- \$800.00 Cash Award for Superior Performance during Fiscal Year 2008, San Juan, Puerto Rico-December 07, 2008.
- \$600.00 Cash Award for “Extra Effort” in the Implementation of the Fiscal Year 2009 Soil Survey Program in the Caribbean Area, San Juan, Puerto Rico-February, 2009.

## Publications

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- **Lugo-Camacho, J.L.;** M.A. Muñoz; J.Pérez-Bolívar and G. Brannon. 2009. Soil Temperature Study in Puerto Rico. *J. Agric. Univ. of Puerto Rico*. Vol.93 No. 3-4: 149-171.
- **Lugo, J.L.;** S. Ríos and M. Cortés. 2008. Soil Survey Update of the San Germán Area, Southern Part, Puerto Rico. USDA-Natural Resources Conservation Service. U.S. Govt. Print. Office, Washington, DC. (2008).
- **Lugo-Camacho, J.L.;** M.A. Muñoz; F.H. Beinroth; J.Pérez-Bolívar and G. Brannon. 2007. Soil Temperature Study in Puerto Rico. *Proceedings Puerto Rican Society of Agricultural Sciences, Cataño, Puerto Rico*. November 15, 2007.
- **Lugo-Camacho, J.L.;** M.A. Muñoz; F.H. Beinroth; J.Pérez-Bolívar and G. Brannon. 2007. Aridisols in Puerto Rico: Reassessment and Implications. *American Society of Agronomy, abstracts, New Orleans, Louisiana*. November 3 - 5, 2007.
- Moore, T.S.; J.L. Langanais; **J.L. Lugo** and D. Guy. 2007. Soil Survey of Decatur County, Georgia. USDA-Natural Resources Conservation Service. U.S. Govt. Print. Office, Washington, DC.
- Brown S.E.; D. Wagner and **J.L. Lugo**. 2006. Soil Survey of Colorado County, Texas. USDA-Natural Resources Conservation Service. U.S. Govt. Print. Office, Washington, DC.
- Lato, L.J.; D.J. Merkler; **J.L. Lugo**; B. Lindsay and K. Harrington. 2006. Soil Survey of Clark County, Nevada. USDA-Natural Resources Conservation Service. U.S. Govt. Print. Office, Washington, DC.
- **Lugo-Camacho, J.L.** 2005. The Soil Climate Regimes of Puerto Rico-Reassessment and Implications. M.S. Thesis. Department of Agronomy and Soil Science; University of Puerto Rico, Mayagüez.
- Moore, T.S.; J.L. Langanais; **J.L. Lugo** and D. Guy. 2005. Soil Survey of Grady County, Georgia. USDA-Natural Resources Conservation Service. U.S. Govt. Print. Office, Washington, DC.

- **Lugo-Camacho, J.L.;** M.A. Muñoz; F.H. Beinroth; J. Pérez-Bolívar and G. Brannon. 2004. The Soil Climate Regimes of Puerto Rico-Reassessment and Implications. Memories of the Puerto Rico Society of Agricultural Sciences 2004.
- Beinroth, F.H., R.J. Engel, **J.L. Lugo**, C.L. Santiago, S. Ríos and G.R. Brannon. 2003. Updated Taxonomic Classification of the Soils of Puerto Rico, 2002. Bull. 303, Univ. Puerto Rico, Agric. Experiment Station, Río Piedras, PR.

## Publications on Local Newspapers Papers

- “El Estudio de los Suelos” - El Mundo, Las Vegas, Nevada, October 31<sup>st</sup>, 1992.
- “Lugo joins Colorado County SCS-Soil Survey Staff” – The Banner Press, Columbus, Texas, November 25, 1993.
- “Lugo joins Area 5” – Annual Newsletter, Association of Professional Soil Scientist of Georgia, January, 1995.
- “La actualización del catastro de suelos” – La Estrella de Puerto Rico, November, 1999.
- “EMI Survey in a CEAP Project in the Caribbean Area” – NCSS Newsletter, Issue 47, May 2009.
- “EMI Survey in a CEAP Project in the Caribbean Area” - The Coastal Plain Newsletter, Spring 2009, Vol. 13, No. 1.
- “Sampling Benchmark Soils in the Caribbean - The Coastal Plain Newsletter, Spring 2009, Vol. 13, No. 1.
- “Catastro de Suelos del área de San Germán” – Agrotemas Newspaper, March 19, 2009.
- “Soil Survey of San Germán Area, Southwestern Puerto Rico” – The Coastal Plain Newsletter, Fall 2008, Vol. 12, No. 2.
- “Aridisols in the Caribbean” – The Coastal Plain Newsletter, Fall 2008, Vol. 12, No. 2.
- “Progress Field Review for the Caribbean Area Soil Survey Update” – The Coastal Plain Newsletter, Spring 2010, Vol. 14, No. 1.
- “Geomorphiv Assistance in the Caribbean Area” – The Coastal Plain Newsletter, Spring 2010, Vol. 14, No. 1.

## Invited Presentations / Papers

- **AEAGROS Annual Meeting**  
“Soil Scientists Career Opportunities in the Natural Resources Conservation Service”, University of Puerto Rico-Mayagüez Campus, Mayagüez, Puerto Rico, February, 1998.
- **SOPCA Annual Scientific Meeting 2004**  
“Soil climate regimes of Puerto Rico: reassessment and implications”, Arroyo, Puerto Rico, December, 2004.
- **USDA-NRCS Business Meeting**  
“San Germán Area Soil Survey Update”, Ponce Hilton and Casino, Ponce, Puerto Rico, August, 2005.
- **Geomicrobiological and Metagenomic Studies (GeMS) of Puerto Rican Soils Team Meeting**  
“An Overview of Soils”, University of Puerto Rico-Mayagüez Campus, Mayagüez, Puerto Rico, September 2007.
- **SOPCA Annual Scientific Meeting 2007**  
“Soil Temperature Study in Puerto Rico”, Cataño, Puerto Rico, November, 2007.
- **AEAGROS Annual Meeting**

“Soil Scientists Career in the Natural Resources Conservation Service”, University of Puerto Rico-Mayagüez Campus, Mayagüez, Puerto Rico, April, 2008.

## **Pertinent Course Work**

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Fundamentals of Crop Production; Fundamentals of Animal Science; General Zoology; Elementary Botany; Veterinary Physiology; General Soils; Farm Management and Accounting; Farm Power and Machinery; Soil Fertility and Fertilizers; Crop Ecology; Tropical Phytopathology; Management of Tropical Soils; Physical and Chemical Properties of Soils; Genesis, Morphology and Classification of Soils; Soils of Puerto Rico; Soil and Water Conservation; Agricultural Entomology; Physiological Principles of Crop Production; Weed Control; Mineral Nutrition in Plants; Biological Applications of Remote Sensing and GIS; Development of a Management Plan for a Forest; Advanced Geological Remote Sensing; Agricultural Biometrics; Soil Chemistry; Agroclimatology; Advanced Agricultural Biometrics; Soil Mineralogy; Movement of Water and Chemicals in the Environment and Soil Physics in Terrestrial Environment.

## **References**

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Available upon request