

**CURRICULUM VITAE**  
**Juan Manuel Álvarez**

**EDUCATION BEYOND HIGH SCHOOL:**

Ph.D., Entomology, University of Florida (UF), Gainesville, Florida, 2000. Entomology GPA: 3.92/4  
M.S., Entomology, University of Massachusetts (UMASS), Amherst, Massachusetts, 1996. GPA: 3.39/4  
B.S., Agronomic Engineering, 5-year program. Universidad Nacional, Bogotá, Colombia, 1991. GPA:  
3.64/5

**PROFESSIONAL EXPERIENCE:**

Associate Professor of Entomology, IPM of potato and cereal pests, University of Idaho, Department of Plant, Soil and Entomological Sciences (PSES), Aberdeen, Idaho, July 1, 2007-present.  
Assistant Professor of Entomology, IPM of potato and cereal pests, University of Idaho, PSES, Aberdeen, Idaho, May 27, 2001-2007.  
Post-doctoral Research Associate, IPM of Brown citrus aphid and citrus psyllids in Florida. Application of molecular tools for the identification of *Wolbachia* in bee populations. Dr. M.A. Hoy's Laboratory. Dept. of Entomology and Nematology, University of Florida (UF), Gainesville, Florida, September 2000-May 2001.  
Research Assistant, Insect genetics. Application of molecular tools and phylogenetic studies for identification of insect and mite populations. Dr. M.A. Hoy's Laboratory. Dept. of Entomology and Nematology, UF, Gainesville, Florida, September 1996-August 2000.  
Research Assistant, IPM of the citrus weevil. Dr. C. McCoy's Laboratory. Citrus Research and Education Center, UF, Lake Alfred, Florida, 1996.  
Research Assistant, Biological control of euonymus scale: field and laboratory work. Dr. Roy VanDriesche's Laboratory. University of Massachusetts, Amherst, Massachusetts, 1993-95.  
Research Assistant, Cassava Green Mite (CGM) biological control project. Drs. Tony Bellotti's and Ann Braun's Labs. Cassava Program - Entomology & Acarology. CIAT (International Center of Tropical Agriculture), Cali, Colombia. 1990-93.  
Technical Assistant / Undergraduate thesis student, Mass rearing and biological studies of tetranychid and phytoseiid mites and fungal biological control agents. Dr. Ann Braun's Lab. CIAT, Cali, Colombia. 1989-90.

**HONORS AND AWARDS:**

Invited to participate as expert to develop a Pest Management Strategic Plan for Western Seed Potato Growers. Salk Lake City, Utah, April 30, 2010.  
President Elect for the Pacific Northwest Insect Management Conference. Portland, Oregon. Jan. 2011.  
Western Extension Director's Award of Excellence for 2009. In recognition to the program "Successful Biological Control of the Cereal Leaf Beetle in the Western USA and Canadian Provinces." July 22, 2009.  
The Deputy Administrator's Safeguarding Award. 2010. The Western Cereal Leaf Beetle Team. Presented by the USDA-APHIS-PPQ.  
Team Award. The Western Cereal Leaf Beetle Team. Presented by the Pacific Branch Entomological Society of America at the 93rd Annual Meeting in San Diego, CA. April 2009.  
Invited by the USDA-CSREES to serve as a member of a review panel for grants on Integrated Pest management. Jan. 22-23, 2009. Washington DC.  
2008 Award for Excellence. Presented by the Western Association of Agricultural Experiment Station Directors in recognition of Outstanding Contributions to Western Region Multistate Research. July 9, 2008.  
Invited by the National Research Council of the National Academies to serve as a member of a review panel for grants on insect-vector management. Oct. 22-23, 2008. Washington DC.  
Brain Drain. Selected as one of 50 outstanding university professors from Colombia currently working in U.S. universities by the Magazine Poder. [http://www.poder360.com/article\\_detail.php?id\\_article=561](http://www.poder360.com/article_detail.php?id_article=561) and [http://www.poder360.com/article\\_detail.php?id\\_article=524](http://www.poder360.com/article_detail.php?id_article=524)  
Invited by two US Senators to participate in the National Hispanic Leadership Summit in Washington DC on September 27-28, 2005.  
Chair of the Western Extension and Research Activity (WERA 89) National Potato Virus Disease Control Committee. (2006-2007)

Career profile published in the December 2002 issue of the Magazine *University of Idaho People*.  
 Portrayed as one of three new bright Assistant Professors at the University of Idaho.  
 Sigma Xi. The Scientific Research Society. Graduate Research Award, 2001  
 Comstock Award. Southeastern Branch of the Entomological Society of America, 2000  
 Herlong Award. \$5,000 from the Herlong endowment for excellence in research, 2000  
 Who's Who Among Students in American Universities and Colleges. 1999-2000. In recognition of  
 outstanding merit and accomplishments as a student at the University of Florida.  
 Gamma Sigma Delta Honor Society of Agriculture, 2000  
 Presidential Recognition. Awarded by President Lombardi in recognition of outstanding achievement and  
 contributions to the University of Florida, 1999  
 Outstanding International Student for 1998-99. College of Agriculture. UF, 1999  
 Scholarship: Florida Entomological Society. 1998 (\$500), 1999 (\$500), and 2000 (\$500)  
 Scholarship: \$5,000 from COLFUTURO, Fundación para el futuro de Colombia. Bogotá, Colombia, 1997  
 Outstanding Academic Achievement Award, The Office of International Studies and Programs, UF, 1997  
 Departmental Research Assistantship: Dept. of Entomology and Nematology, UF, 1996-97  
 Departmental Research Assistantship: Dept. of Entomology, UMASS, 1993-96  
 Tuition exemption award: Universidad Nacional de Colombia, Facultad de Agronomía, Bogotá, 1987-91

#### **PRIZES FOR STUDENT PAPER COMPETITIONS:**

First Prize. Student paper competition, the Entomological Society of America (ESA) National annual  
 meeting, Atlanta, 1999.  
 Second prize. First student paper competition, Dept. of Entomology and Nematology, UF, Gainesville,  
 Florida, August 19, 1999.  
 Second prize. Student paper competition, 4<sup>th</sup> International Caribbean conference of entomology in  
 conjunction with the 82<sup>nd</sup> annual meeting of the Florida entomological society. San Juan, Puerto Rico.  
 1999.  
 Second prize. Poster presentation in biological science, the 1999 Graduate forum of the University of  
 Florida.  
 Best Photograph: Photograph was selected for a poster advertising the XVIII national entomological  
 congress of Colombia, SOCOLEN, Bogotá, 1991.  
 Third prize. Student paper competition, II national and VI regional symposium on agronomic research.  
 Universidad de Cordoba, Monteria. Colombia. 1990.

#### **TEACHING ACCOMPLISHMENTS:**

##### **Graduate Students Advised to Completion:**

Felix A. Cervantes. Ph.D. Graduated Fall 2008. Dr. Gene & Marlene A. Easton Scholarship. 2006-2007.  
 Toevs, John L. & Lois K. Scholarship. 2008. 8th I.E. Melhus Graduate Student Symposium: Forty Five  
 Years after Van der Plank, New Visions in the Future of Plant Disease Epidemiology". American  
 Phytopathological Society. 2008. Hubert C. Manis Award for Excellence in Entomological Research.  
 2009. Currently a Post-Doctoral Fellow at the University of Florida  
 RajagopalBabu Srinivasan. Ph.D. Graduated Spring 2006. Hubert C. Manis Award for Excellence in  
 Entomological Research. 2007. ESA Comstock Award 2007. Currently an Assistant Professor at the  
 University of Georgia.

##### **Other Graduate Students:**

Shaonpius Mondal. PhD. Summer 2010-present.  
 Deepak Shrestha. MS. Spring 2010-present.  
 Mathieu Rolland, Exchange Ph.D. Student from INRA, France, Feb-May 2008.  
 Harold Libby. MS. Spring 2007-present.  
 Cecil Tharp, Ph.D. Spring 2008-Spring 2009 (member of graduate committee at Montana State  
 University).

#### **INVITED LECTURES:**

##### **International Invited Lectures** (14 as July 21, 2010):

Why is a Solanum weed affecting the aphid transmission of PVY in Idaho potato fields. 14th European  
 Association for Potato Research (EAPR) Virology Section Meeting, Hamar, Norway. July 4-9, 2010.  
 Differential transmission rates of PVY<sup>O</sup> and PVY<sup>NTN</sup> from two inoculum sources by three aphid vectors. XI

- International Plant Virus Epidemiology Symposium. Ithaca, NY. June 20-24, 2010.
- Potato viral infections affect the biology and behavior of aphid vectors. 8<sup>th</sup> International Symposium of Aphids. Catania, Italy. June 8-12, 2009.
- Keynote Talk:** Effect of mixed potato viral infections on the biology of aphid vectors and implications. XXIII Latin American Potato Association Congress. Mar del Plata, Argentina. Nov. 30-Dec. 6, 2008.
- Characterization of host plant-aphid-virus interactions and their effects on the epidemiology of potato viruses. UMR Biologie des Organismes et des Populations appliquee a la Protection des Plantes INRA, Le Rheu, France. June 11, 2008.
- Role of weeds and aphid vectors in the epidemiology of PVY (several isolates). 1<sup>st</sup> PVYwide International meeting. INRA, Paris, France. June 13, 2008.
- Summary of vectors and ecology session. Plant Virus Ecology Network, 1<sup>st</sup> Annual Meeting. East Lansing, MI, March 19, 2008.
- Keynote Talk:** Mixed-viral infections (Potato virus Y-Potato leafroll virus) affect the biology and preference of aphid vectors and consequently the epidemiology of potato viruses. 10th International Plant Virus Epidemiology (IPVE) symposium, the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India. 15 - 19 October 2007.
- Potato Tuberworm, *Phthorimaea operculella* (Zeller) and management of this pest. One hour invited seminar at the Annual Meeting of the Potato Growers of Alberta. Red Deer, Alberta, Canada, November 2006.
- Using a holistic approach to solve pest problems. One hour invited seminar at the International Center of Tropical Agriculture (CIAT). Cali, Colombia, October 2006.
- Potato Tuberworm *Phthorimaea operculella* in Idaho. 45 minute invited presentation at the 6<sup>th</sup> World Potato Congress. Boise, Idaho, August 2006.
- Molecular tools in biological control. One hour invited symposium presented at the XXX International Meeting of the Colombian Society of Entomology (SOCOLEN). Cali, Colombia, July 2003.
- Molecular markers in classical biological control of the citrus leafminer: taxonomic and ecological evaluations. First International Symposium of Biological Control. Honolulu, Hawaii, January 2002.
- Pathogenicity of *Hirsutella thompsonii* and other fungi on spider mites in cassava. I International course on biological control of mites with fungi, Guantanamo, Cuba. 1992.

**National Invited Lectures** (28 as August 20, 2009):

- How aphids transmit viruses and what we could do to prevent transmission and reduce infections. Idaho Seed Potato Grower's Seminar. Pocatello, Idaho. January 19, 2010.
- Interactions between Potato Viral Infections, Aphid Vectors and Plant Hosts and their Effects on Disease Management. The Montana Annual Seed Potato Seminar, Helena, Montana. November 4, 2009.
- Plant-aphid-virus interactions and their effects on the epidemiology of potato viruses. Idaho Seed Potato Grower's Seminar. Pocatello, Idaho. January 20, 2009.
- Impact of host weed plants on aphid vectors of potato viruses. National Potato Expo. San Antonio, TX. January 7-9, 2009.
- Managing wireworms in Irish potato in Idaho. Symposium: Managing Soil Arthropod Pests in Vegetables: High Stakes and Long Odds. Annual ESA meeting, Reno, NV. November 2008.
- Revisiting PVY management in the PNW potato ecosystem. 45 minute presentation at the Annual Oregon Potato School. Portland, Oregon. Feb. 1, 2008.
- Management of potato insects in Idaho. 25 minute presentation at the Syngenta 2008 Kickoff. Las Vegas, NV. January 31, 2008.
- New findings in the epidemiology of potato viruses (Potato virus Y and Potato leafroll virus) in Idaho. PSES, University of Idaho, Moscow, ID. October 4, 2007.
- Insecticide needs for management of potato insect pests. 30 minute presentation. 2007 BASF Technical Insecticide Interchange. Research Triangle Park, NC. February 20, 2007.
- Solving pest problems with a holistic approach. Two 45 minute presentation at the University of Florida, Lake Alfred, Florida, September 26, and Gainesville, Florida, September 27, 2006.
- Wireworm chemical control. 20 minute presentation. Conference and Workshop on Wireworms held as part of the program for the Eastern Branch ESA Meeting, March 12-14, 2006, Charlottesville, Virginia.
- Wireworm phenology in Idaho potato fields. 20 minute presentation. Conference and Workshop on Wireworms held as part of the program for the Eastern Branch ESA Meeting, March 12-14, 2006, Charlottesville, Virginia.

IPM of multiple pests in different commodities. 45 minute presentation. Texas A&M University, Weslaco, Texas, December 7, 2005.

A journey through IPM: Different commodities, same objectives. 45 minute presentation. Texas A&M University, College Station, Texas, November 18, 2005.

Insect pest management in the potato crop. 45 minute invited talk at the Annual Crop Meeting. Wilbur Ellis Company, Phoenix, Arizona, November 30, 2005.

Aphids and potato seed health. 30 minute invited talk at the Fall Area Meetings of Idaho Crop Improvement Association. Idaho Falls, Idaho, October 27, 2005.

Effect of virus inoculum sources in the behavior of aphid vectors and the spread of infections. One hour invited seminar at the Department of Biological Sciences. University of Maine. Orono, Maine, October 14, 2005.

Integrated pest management of potato pests in Idaho. One hour invited talk presented at the Pacific North West Aerial Applicators of Association (PNWAAA) Annual Meeting. Pasco, Washington, November 9, 2004.

Effect of hairy nightshades in the epidemiology of PLRV in Idaho. Invited presentation presented at the USDA-ARS Yakima Research Center, Yakima, Washington, April 29, 2004.

Efficacy of insecticides against potato pests. Invited presentation at the 2003 Syngenta Potato Meeting, Hutchinson Island, Florida, November 2003.

Insecticides that reduce virus transmission in potatoes. Invited presentation at the 2003 Syngenta Potato Meeting, Hutchinson Island, Florida, November 2003.

The Haanchen Barley Mealybug. 45 min. invited seminar presented at the WCC66 meeting. Ft. Collins, Colorado, September 2003.

Optimizing Insecticide Applications to Reduce Virus Transmission in the Field. 45 min invited seminar coauthored by Dr. Mowry and presented at the University of Idaho Potato School. Pocatello, Idaho, January 22, 2003.

Insecticide trials for potato pests. Potato Syngenta Meeting, Las Vegas, Nevada, March 2002.

Effective insecticides. 34<sup>th</sup> Annual Idaho Seed Growers' Seminar. Idaho Crop Improvement. Pocatello, Idaho, January 2002.

Using molecular tools in biological control. University of Massachusetts, October 2001.

Aphid management on potatoes. University of Idaho, Aberdeen, March 2001.

Pest management: a journey from the field to the molecule. University of Idaho, Moscow, February 2001.

Biological control: from the ecosystem to the molecule. University of Maine, Orono, October 2000.

The economic injury level concept. University of Maine, Orono, October 2000.

Molecular tools for biological control: *Ageniaspis* in Florida citrus. Oregon State University, Corvallis, June 2000.

IPM concepts applied to two contrasting commodities: cassava and grass seed. Oregon State University, Corvallis, June 2000.

Biological control of cassava pests: An international effort. Tropical Conservation and Development Program (TCD) of the Latin American Studies Department. University of Florida, Gainesville, April 1998.

**GRANTS AND CONTRACTS AWARDED (PI= Principal Investigator):** As August 2009-Total US\$6,794,411. Full spending authority for \$1,633,204.

**SERVICE:**

**Major Committee Assignments:**

President Elect for the Pacific Northwest Insect Management Conference. Portland, Oregon. Jan. 2011.

Scientific Program Committee for the XI International Plant Virus Epidemiology Symposium. Ithaca, NY. June 20-24, 2010.

Member of the resolutions committee for the 69<sup>th</sup> Annual Pacific Northwest Insect Management Conference. Portland, Oregon. Jan. 11-12, 2010.

Membership Committee Entomological Society of America (ESA). 2008-to present.

Co-Organizer of the Symposium "vector-Virus Interactions in Agro Ecosystems: Approaches, Advancements, and Limitations", which will be held as part of the program for the Annual ESA Meeting, December 13-16, 2009, Indianapolis, Indiana.

Member of the University of Idaho, PSES Search Committee for the Aberdeen Plant Pathologist Support Scientist position. 2009.

Member of the University of Idaho, PSES Search Committee for the Support Scientist Potato Pathology position. 2009.

Organizer of the Symposium Insect-Vector Interactions: From the Molecule to the Field and Beyond which will be held as part of the program for the Pacific Branch ESA Meeting, March 29-April 1, 2009, San Diego, California.

Member of the University of Idaho, PSES Search Committee for the Twin Falls Entomologist position. 2008.

Member of the University of Idaho, PSES Search Committee for the Aberdeen Plant Pathologist position. 2008.

Member of the PSES Mentoring Committee for the Aberdeen Wheat Breeder. Since 2008.

Member of the University of Idaho, PSES Evaluation and Promotion & Tenure Guidelines Committee. 2007.

Chair of the WERA- 89 Potato Virus Disease Control, Committee for year 2007.

Member of the USDA-ARS Search Committee for the Aberdeen Research Molecular Geneticist position. 2007.

Member of the PSES Search Committee for the Aberdeen Wheat Breeder position. 2007.

Co-Organizer of the Conference and Workshop on Wireworms held as part of the program for the Eastern Branch ESA Meeting, March 12-14, 2006, Charlottesville, Virginia.

Section leader for the 65<sup>th</sup> Annual Pacific Northwest insect management conference. 2006, Portland, Oregon.

Section organizer (Contribution of biological control to the global development agenda) for the II International Symposium of Biological Control of Arthropods. Davos, Switzerland.

Member of the PSES Promotion & Tenure Committee for Dr. Pamela Hutchinson.

Section leader for the 64<sup>th</sup> Annual Pacific Northwest insect management conference. 2005, Portland, Oregon.

Member of the University of Idaho College of Agricultural and Life Sciences Promotion & Tenure Committee. 2005.

Member of the PNW Cereal Leaf Beetle Biological Control Committee.

Head of the Search Committee for the entomology support scientist position.

Leader of the Barley Mealybug Technical Committee formed by the Idaho Barley Commission.

Vice-Chair of the WERA- 89 Potato Virus Disease Control, Committee for year 2006.

Secretary of the WERA- 89 Potato Virus Disease Control, Committee for year 2005.

Idaho Representative for the WCC-66 cereal aphids committee.

Member of the PSES IR 4 Advisory Committee.

Member of the PSES Search Committee for the Extension Entomologist position.

Selected by PSES to participate in the USDA-CSREES Grants Workshop. Minneapolis, Minnesota. October 2002.

Member of the WERA089 (formerly WCC-89), Potato Virus Disease Control Committee. Meetings: Denver, Colorado, October 24-26, 2001; Phoenix, Arizona, April 4-5, 2002, Phoenix, Arizona, March 26-27, 2003, Phoenix, Arizona, April 6-7, 2004, Phoenix, Arizona, March 16-17, 2005.