

Curriculum Vitae

JORGE DAVID SALGADO

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EDUCATION

PhD in Plant Pathology, The Ohio State University (2010 – 2014)
Columbus, Ohio. U.S.A.

M. S. in Plant Pathology, The Ohio State University (2008 – 2010)
Columbus, Ohio. U.S.A.

B. S. in Agriculture, Zamorano University – Panamerican School of Agriculture (1999 – 2002)
Honduras, C. A.

RESEARCH AND WORK EXPERIENCE

❖ The Ohio State University, Department of Plant Pathology. Wooster campus, OH

Research Associate 2 B/H (*February 2015– present*)

Principal investigator: Dr. Pierce A. Paul

Description: Coordinate the collection and organization of data from multistate projects to develop integrated management programs and risk assessment models for Fusarium head blight of wheat. Evaluate the economic benefit of management programs in wheat. Contribute to the screening of wheat varieties for resistance to diseases. Plan, design, manage, and coordinate controlled-environment (greenhouse and growth chambers rooms) and field projects on the OARDC campus and research farms across the state of Ohio. Preparation of research reports for collaborators, private companies, and committees at regional and national meetings. Prepare extension factsheets and peer-reviewed publications. Supervise and support a dynamic group of graduate and undergraduate students as well as staff. Other responsibilities include: conduct disease diagnosis, assess foliar and ear diseases of wheat and corn, and evaluate foliar and seed treatment fungicides.

Post-doctoral Researcher (*May 2014 – present*)

Major Advisors: Dr. Pierce A. Paul and Dr. Laurence V. Madden

Description: Coordinate the collection and organization of data from multistate projects to develop integrated management programs and risk assessment models for Fusarium head blight of wheat. Plan, design, execution of field and greenhouse experiments, in addition to coordinate data collection and analysis from field, greenhouse and laboratory projects in the department of Plant Pathology. Other responsibilities include: manuscript and scientific reports preparation for publication in peer-reviewed journals.

Graduate Research Associate (*Sep 2008 – Apr 2014*)

Major Advisors: Dr. Pierce A. Paul and Dr. Laurence V. Madden

Description: Conduct research on the epidemiology and management of diseases of wheat, including developing yield loss models for Fusarium head blight and Stagonospora leaf and glume blotch of wheat; and develop and evaluate the efficacy and economic benefits of integrated management programs for foliar and spike diseases of wheat.

Research Scholar – (*Apr 2007 – Jul 2008*)

Description: Worked with Dr. Pierce A. Paul in field and laboratory activities related to plant disease management of wheat and corn, and assisted staff and grad students with projects studying the epidemiology of Fusarium Head Blight of Wheat and Gray Leaf Spot of Maize.

❖ **The Ohio State University, Department of Entomology. Wooster campus, OH**

Research Scholar - (*Feb 2006 – Mar 2007*)

Description: Worked in the IPM lab with Dr. Joseph Kovach in a fruit and vegetable polyculture system project. My responsibilities included setting up of field experiments, field plot maintenance and harvest evaluation as well as conducting insect and disease identification.

❖ **Organismo Internacional Regional de Sanidad Agropecuaria – OIRSA, Honduras**

Quarantine Inspector - Honduran Agricultural Protection Service (*May 2003 – Jan 2006*)

Description: Leading and management of two land border offices and coordination of quarantine office activities. Main responsibilities included: Inspection of agricultural goods that are exported and imported in land borders, seaports and airports, helped develop pre-entry inspection manual and post-entry quarantine manual to enforce agricultural protection service and quarantine laws.

PEER-REVIEWED JOURNAL PUBLICATIONS

Salgado, J. D., Madden, L. V., and Paul, P. A. 2015. Quantifying the effects of Fusarium head blight on grain yield and test weight in soft red winter wheat. *Phytopathology* 105:295-306.

<http://dx.doi.org/10.1094/PHYTO-08-14-0215-R>

Salgado, J. D., Madden, L. V., and Paul, P. A. 2014. Efficacy and economics of integrating in-field and harvesting strategies to manage Fusarium head blight of wheat. *Plant Dis.* 98: 1407-1421.

<http://dx.doi.org/10.1094/PDIS-01-14-0093-RE>

Salgado, J. D., Wallhead, M., Madden, L. V. and Paul, P. A. 2011. Grain harvesting strategies to minimize grain quality losses due to Fusarium head blight in wheat. *Plant Dis.* 95:1448-1457.

<http://dx.doi.org/10.1094/PDIS-04-11-0309>

* Paper publication featured as the editor's pick for the month of November by the journal *Plant Disease*.

Other publications:

Salgado Moncada, J. D, Espinal de Rueda, D., Vega, M., Linares, J. 2002. Análisis del costo de producción y evaluación de la tasa de multiplicación *in vitro* de *Rhyncholaelia digbyana* en Zamorano. Tesis Ing. Agr., Escuela Agrícola Panamericana, Zamorano, Honduras. 57 p.

CONFERENCE ABSTRACTS AND FORUM PROCEEDINGS

Abstracts

1. Salgado, J. D., Madden, L. V. and P. A. Paul. 2015. Spike colonization, fungal spread and deoxynivalenol accumulation in Fusarium Head Blight susceptible and resistant wheat cultivars. *Phytopathology* 10X
2. Salgado, J. D., Ling, Madden, L. V. and P. A. Paul 2014. CO₂ and *Fusarium graminearum* Chemotype effects on Fusarium head blight and Mycotoxins Contamination in Wheat. *Phytopathology* 10X:
3. Salgado, J. D., Madden, L. V. and P. A. Paul. 2015. 2013. Soft Red Winter Wheat Yield and Quality as Influenced by the Fusarium Head Blight-Stagonospora Leaf Blotch Complex and Disease Management Strategies. *Phytopathology* 10X:
4. Salgado, J. D., Paul, P. A., Willyerd, K.T., and Madden, L. V. 2012. Integrating grain harvesting and pre-harvest management strategies to minimize losses due to Fusarium Head Blight and deoxynivalenol in wheat. *Phytopathology* 102:S4.105.
5. Salgado, J. D., Paul, P. A., Willyerd, K., Madden, L. V. 2012. A cost-benefit assessment of integrated management strategies for Fusarium Head Blight and deoxynivalenol control in wheat. *Phytopathology* 102: S5.8.
6. Salgado, J. D., Wallhead, M. W., Madden, L. V., and Paul, P. A. 2010. Relationship between grain yield and Fusarium Head Blight in soft red winter wheat as influenced by cultivar resistance. *Phytopathology* 100:S66.

Proceedings

1. Salgado, J. D., Ames, K., Bergstrom, G., Bradley, C., Byamukama, E., Cummings, J., Chapara, V., Chilvers, M., Dill-Macky, R., Friskop, A., Gautam, P., Kleczewski, N., Madden, L.V., Milus, E., Nagelkirk, M., Ransom, J., Ruden, K., Wegulo, S., Wise, K., Yabwalo, D., and Paul, P. A. **2015**. Robust Management Programs to Minimize Losses due to FHB and DON: A Multi-state Coordinated Project. In: S. M. Canty, A. Clark, A. Anderson-Scully, D. Ellis and D. Van Sanford (Eds.), *Proceedings of the 2015 National Fusarium Head Blight Forum*; **2014** Dec. 6-8; St. Louis, MO. East Lansing, MI/Lexington, KY: US Wheat and Barley Scab Initiative. pp. 24.
2. Salgado, J. D., Ames, K., Bergstrom, G., Bradley, C., Byamukama, E., Cummings, J., Dill-Macky, R., Friskop, A., Gautam, P., Kleczewski, N., Madden, L., Milus, E., Nagelkirk, M., Ransom, J., Ruden, K., Wegulo, S., Wise, K. and Paul, P. A. **2014**. Best FHB management Practices: A 2014 Multi State Project Update. In: S. M. Canty, A. Clark, A. Anderson-Scully, D. Ellis and D. Van Sanford (Eds.), *Proceedings of the 2014 National Fusarium Head Blight Forum*; 2014 Dec. 7-9; St. Louis, MO. East Lansing, MI/Lexington, KY: US Wheat and Barley Scab Initiative. pp. 31.
3. Salgado, J. D., Dalla Lana F., Madden, L. V., and Paul, P. A. **2014**. Integrating Cultivar Resistance and Fungicide Application rate and timing for FHB Management in Ohio. In: S. M. Canty, A. Clark, A. Anderson-Scully, D. Ellis and D. Van Sanford (Eds.), *Proceedings of the 2014 National Fusarium Head Blight Forum*; 2014 Dec. 7-9; St. Louis, MO. East Lansing, MI/Lexington, KY: US Wheat and Barley Scab Initiative. pp. 37.

4. Shah, D.A., De Wolf, E. D., Salgado, J. D., Paul, P. A. and Madden, L. V. **2014**. Weather Time Series Curves in Relation to Fusarium Head Blight Epidemics. In: S. M. Canty, A. Clark, A. Anderson-Scully, D. Ellis and D. Van Sanford (Eds.), *Proceedings of the 2014 National Fusarium Head Blight Forum*; 2014 Dec. 7-9; St. Louis, MO. East Lansing, MI/Lexington, KY: US Wheat and Barley Scab Initiative. pp. 42.
5. Mills, K., Salgado, J. D., Madden, L. V., and Paul, P. A. **2014**. Rainfastness of Caramba® and protection against Fusarium Head Blight and Deoxynivalenol in Soft Red Winter Wheat. In: S. M. Canty, A. Clark, A. Anderson-Scully, D. Ellis and D. Van Sanford (Eds.), *Proceedings of the 2014 National Fusarium Head Blight Forum*; 2014 Dec. 7-9; St. Louis, MO. East Lansing, MI/Lexington, KY: US Wheat and Barley Scab Initiative. pp. 22.
6. Salgado, J. D., Madden, L. V. and Paul, P. A. **2013**. Preliminary economic analysis of FHB management strategies. In: S. Canty, A. Clark, A. Anderson-Scully and D. Van Sanford (Eds.), *Proceedings of the 2013 National Fusarium Head Blight Forum*; 2013 Dec. 3-5; Milwaukee, WI. (pp. 115). East Lansing, MI/Lexington, KY: U.S. Wheat & Barley Scab Initiative.
7. Salgado, J. D., Madden, L. V. and Paul, P. A. **2012**. Characterization of differential spike colonization and deoxynivalenol accumulation in susceptible and resistant wheat cultivars. In: S. Canty, A. Clark, A. Anderson-Scully and D. Van Sanford (Eds.), *Proceedings of the 2012 National Fusarium Head Blight Forum*; 2012 Dec. 4-6; Orlando, FL. (pp. 25). East Lansing, MI/Lexington, KY: U.S. Wheat & Barley Scab Initiative.
8. D'Angelo, D., Willyerd, K., Salgado, J. D., Madden, L. and Paul, P. **2011**. Effect of post-anthesis fungicide application on Fusarium Head Blight and DON in soft red wheat. In: S. M. Canty, A. Clark, A. Anderson-Scully, D. Ellis and D. Van Sanford (Eds.), *Proceedings of the 2011 National Fusarium Head Blight Forum*; 2011 Dec. 4-6; St. Louis, MO. East Lansing, MI/Lexington, KY: US Wheat and Barley Scab Initiative. pp. 132.
9. Salgado, J. D., Madden, L. V., and Paul, P. A. **2011**. Combined effects of Stagonospora leaf blotch and Fusarium head blight on grain yield and quality of soft red winter wheat. In: S. M. Canty, A. Clark, A. Anderson-Scully, D. Ellis and D. Van Sanford (Eds.), *Proceedings of the 2011 National Fusarium Head Blight Forum*; 2011 Dec. 4-6; St. Louis, MO. East Lansing, MI/Lexington, KY: US Wheat and Barley Scab Initiative. pp. 147.
10. Salgado, J. D., Wallhead, M. W., Madden, L. V. and Paul, P. A. **2010**. Grain Harvesting Strategies to Mitigate Losses due to Fusarium Head Blight: A Cost/Benefit Assessment. In: S. M. Canty, A. Clark, A. Anderson-Scully, D. Ellis and D. Van Sanford (Eds.), *Proceedings of the 2010 National Fusarium Head Blight Forum*; 2010 Dec. 7-9; Milwaukee, WI. Lexington, KY: University of Kentucky. pp. 95.
11. Salgado, J. D., Wallhead, M. W., Madden, L. V. and Paul, P. A. **2009**. Effect of varying combine harvester configurations on Fusarium damaged kernels (FDK) and deoxynivalenol accumulation in wheat grain harvested from plots with different levels of Fusarium head blight. In: Canty, S. M., A. Clark, J. Mundell, E. Walton, D. Ellis, and D. A. Van Sanford (Eds.), *Proceedings of the 2009 National Fusarium Head Blight Forum*; 2009 Dec 7-9; Orlando, FL. Lexington, KY: University of Kentucky. pp. 75-79.
12. Salgado, J. D., Wallhead, M. W., Madden, L. V. and Paul, P. A. **2008**. Comparing the Effects of macroconidia and ascospores of *Gibberella zeae* on Fusarium head blight development in wheat. In: Canty, S. M., E. Walton, A. Clark, D. Ellis, J. Mundell, and D. A. Van Sanford (Eds.), *Proceedings of the 2008 National Fusarium Head Blight Forum*; 2008 Dec 2-4; Indianapolis, IN. Lexington, KY: University of Kentucky. pp. 59.
13. Odenbach, K. J. Salgado, J. D., Madden, L. V. and Paul, P. A. **2008**. Influence of Cultivar Resistance, Infection Timing, and Inoculum Density on FHB development and DON Accumulation in Asymptomatic Wheat Spikes. In: Canty, S. M., E. Walton, A. Clark, D. Ellis, J. Mundell, and D. A. Van Sanford (Eds.), *Proceedings of the 2008 National Fusarium Head Blight Forum*; 2008 Dec 2-4; Indianapolis, IN. Lexington, KY: University of Kentucky. pp. 50.

14. Salgado, J. D., Broders, G., Madden, L., and Paul, P. **2007**. Characterization of DON accumulation in SRWW cultivars with different levels of type II resistance to FHB. In: Canty, S. M., Clark, A., and Van Sanford, D. (Eds.), *Proceedings of the 2007 National Fusarium Head Blight Forum*; 2007 Dec, 2-4; Kansas City, MO. Lexington, KY: University of Kentucky. pp. 137.

EXTENSION ARTICLES AND ONLINE PUBLICATIONS

Paul, P. A. and Salgado, J. D. Ohio Wheat Crop is Ahead of Schedule. Is that Good or Bad? C.O.R.N. Newsletter 2012 -11. Editor: Steve Prochaska. Available at <http://corn.osu.edu/newsletters/2012/2012-11>

Paul, P. A. and Salgado, J. D. Wheat Growth Stage and Cold Temperature Injury. C.O.R.N. Newsletter 2012 -09. Editor: Steve Prochaska. Available at <http://corn.osu.edu/newsletters/2012/2012-09>

Paul, P. A. and Salgado, J. D. Wheat Growth Stage and Foliar Fungicide Applications. C.O.R.N. Newsletter 2012 -09. Editor: Steve Prochaska. Available at <http://corn.osu.edu/newsletters/2012/2012-09>

ORAL PRESENTATIONS

Salgado, J. D., Lindsey, L. E., and Paul, P. A. **2016**. Wheat Row Spacings, Nitrogen Rates, Diseases, and Production Economics – 2016 NCERA-184 Management of Small Grain Diseases Meeting. Pensacola, FL, March 7, 2016.

Salgado, J. D., Madden, L. V., and Paul, P. A. **2014**. Modeling Grain Yield and Quality Losses in Wheat caused by Fusarium Head Blight and Developing Management Programs to minimize such Losses – Exit Seminar in the Department of Plant Pathology Seminars Series. Wooster, OH, Feb 17, 2014

Salgado, J. D., Madden, L. V., and Paul, P. A. **2013**. Soft Red Winter Wheat Yield and Quality as Influenced by the Fusarium Head Blight-Stagonospora Leaf Blotch Complex and Disease Management Strategies. Oral presentation at the 13th I. E. Melhus Graduate Student Symposium. 2013 National American Phytopathological Society, Annual Meeting in Austin, Texas, August 10 - 14, 2013

Salgado, J. D., Madden, L. V., and Paul, P. A. **2013**. Grain Yield and Quality in Soft Red Winter Wheat as Influenced by the Fusarium Head Blight-Stagonospora Leaf Blotch Complex and Disease Management Strategies. Oral presentation at the 2013 Student Exchange program- visiting the Department of Plant Pathology and Environmental Microbiology at The Pennsylvania State University. State College, April 8 – 9, 2013.

Salgado, J. D., and Paul, P. A. **2013**. Climate Change: Potential Impact on Plant Pathology and Food Security - Review and Research proposal. Department of Plant Pathology Seminars Series. Wooster, OH. February 19, 2013.

Salgado, J. D., Willyerd, K.T., M., Madden, L. V., and Paul, P. A. **2012**. Integrating Grain Harvesting and Pre-harvest Management Strategies to minimize losses due to Fusarium Head Blight and Deoxynivalenol in Wheat. 2012 National American Phytopathological Society, Annual Meeting, Providence, Rhode Island, August 4-8, 2012

Salgado, J. D., Willyerd, K.T., Madden, L. V., and Paul, P. A. **2012**. A Cost-Benefit Assessment of Integrated Management Strategies for Fusarium Head Blight and Deoxynivalenol Control in Wheat. 2012 American Phytopathological Society, North Central Division Annual Meeting, Wooster, Ohio, June 13 - 15, 2012

Salgado, J. D., Wallhead, M., Madden, L. V., and Paul, P. A. **2010**. Wheat Yield and Quality Losses, and Influence of Cultivar Resistance on the Relationship between Fusarium Head Blight and Grain Yield in Wheat. Oral presentations during RUFORUM Biennial Regional Conference on *Building Capacity for Food Security in Africa*, 20 – 24 September 2010, Entebbe, Uganda.

Salgado, J. D., Madden, L. V., and Paul, P. A. **2009**. Wheat Yield and Quality Losses: The Combined Effects of two Toxigenic Necrotrophs - A Project Overview. 30 min talk. Department of Plant Pathology Seminars Series. April, 2009.

POSTER PRESENTATIONS

Salgado, J. D., Bergstrom, G., Bradley, C., Byamukama, J., Chilvers, M., Dill-Macky, R., Friskop, A., Kleczewski, N., Madden, L., Nagelkirk, M., Ransom, J., Wegulo, S., Wise, K., and Paul, P. A. 2015. Robust Management Programs to Minimize Losses due to FHB and DON: A Multi-state Coordinated Project. Poster presented at the 2015 National Fusarium Head Blight Forum at St Louis, MO. Dec 6 – 8.

Salgado, J. D., Madden, L. V. and Paul, P. A. 2015. Spike colonization, fungal spread and deoxynivalenol accumulation in Fusarium head blight susceptible and resistant wheat cultivars. American Phytopathological Society Annual Meeting, Aug. 1-6, 2015, Pasadena, California

Salgado, J. D., Dalla Lana F., Madden, L. V., and Paul, P. A. 2014. Integrating Cultivar Resistance and Fungicide Application rate and timing for FHB Management in Ohio. Poster presented at the 2014 National Fusarium Head Blight Forum. St Louis, MO. December 7 – 9.

Shah, D.A., De Wolf, E. D., **Salgado, J. D.**, Paul, P. A. and Madden, L. V. 2014. Weather Time Series Curves in Relation to Fusarium Head Blight Epidemics. Poster presented at the 2014 National Fusarium Head Blight Forum. St Louis, MO. December 7 – 9.

Mills, K., **Salgado, J. D.**, Madden, L. V., and Paul, P. A. 2014. Rainfastness of Caramba® and protection against Fusarium Head Blight and Deoxynivalenol in Soft Red Winter Wheat. Poster presented at the 2014 National Fusarium Head Blight Forum. St Louis, MO. December 7 – 9.

Salgado, J. D., Ling, P. Paul, P. A., and Madden, L. V. 2014. CO₂ and *Fusarium graminearum* Chemotype effects on Fusarium Head Blight and Mycotoxins Contamination in Wheat. Poster presentation at the 2014 National APS meeting in Minneapolis, MN. August 9 - 13, 2010.

Salgado, J. D., Madden, L. V. and Paul, P. A. 2013. Preliminary economic analysis of FHB management strategies. Poster presented at the 2013 National Fusarium Head Blight Forum. Dec 3-5; Milwaukee, WI.

Morales, J. V., **Salgado, J. D.**, and Paul, P. A. 2013. Fusarium Head Blight Development and *Fusarium graminearum* Growth under different Climate Change Scenario. Poster presented at the SROP symposium, Columbus, Ohio. July, 2013.

Salgado, J. D., Madden, L. V., and Paul, P. A. 2013. Characterization of differential spike colonization and deoxynivalenol accumulation in susceptible and resistant wheat cultivars. Poster presented at the OARDC Annual Research Conference, Columbus, Ohio. April 25, 2013.

Salgado, J. D., Madden, L. V. and Paul, P. A. 2012. Characterization of differential spike colonization and deoxynivalenol accumulation in susceptible and resistant wheat cultivars. Poster presented at the 2012 National Fusarium Head Blight Forum. Orlando, FL. December 4 – 6.

Salgado, J. D., Wallhead, M., Madden, L. V., and Paul, P. A. 2011. Combined effects of *Stagonospora* leaf blotch and *Fusarium* head blight on Grain Yield and Quality of Soft Red Winter Wheat. Poster presented at the 2011 National *Fusarium* Head Blight Forum. St Louis, MO. December 4 – 6.

D'Angelo D., Willyerd, K. T., **Salgado, J. D.**, Madden, L. V., and Paul, P. A. 2011. Effect of Post-anthesis Fungicide application on *Fusarium* head blight and DON in Soft Red Winter Wheat. Poster presented at the 2011 National *Fusarium* Head Blight Forum. St Louis, MO. December 4 – 6.

Salgado, J. D., Wallhead, M., Madden, L. V., and Paul, P. A. 2010. Grain Harvesting Strategies to Mitigate Losses due to *Fusarium* Head Blight: A Cost/Benefit Assessment. Poster presented at the 2010 National *Fusarium* Head Blight Forum. Milwaukee, WI. December 7-9, 2010.

Salgado, J. D., Wallhead, M., Madden, L. V., and Paul, P. A. 2010. Relationship between Grain Yield and *Fusarium* Head Blight in Soft Red Winter Wheat as Influenced by Cultivar Resistance. Poster presentation at the 2010 National APS meeting in Charlotte, NC. August 1 - 6, 2010.

Salgado, J. D., Wallhead, M., Madden, L. V., and Paul, P. A. 2010. Effect of varying combine harvester configurations on *Fusarium* damaged kernels (FDK) and deoxynivalenol (DON) accumulation in wheat grain harvested from plots with different levels of *Fusarium* head blight. Poster presented at the OARDC Annual Research Conference, Wooster, Ohio. April 22, 2010.

Odenbach, K. J., Guttieri, M. J., **Salgado, J. D.**, Sneller, C. H., Madden, L. V., and Paul, P. A. 2009. Characterization of the association between post-anthesis infection and deoxynivalenol accumulation in asymptomatic wheat spikes using quantitative real-time PCR. Poster presented at the 2009 OARDC Annual Research Conference, The Blackwell Ballroom at Columbus, Ohio, April 23, 2009.

Salgado, J. D., Wallhead, M., Madden, L. V., and Paul, P. A. 2009. Effect of varying combine harvester configurations on *Fusarium* damaged kernels (FDK) and Deoxynivalenol accumulation in Wheat grain harvested from plots with different levels of *Fusarium* Head Blight. Poster presented at the 2009 National *Fusarium* Head Blight Forum, Wyndham Resort Hotel at Orlando, Florida, December 7-9, 2009

Salgado, J. D., Madden, L. V., and Paul, P. A. 2008. Comparing the Effects of Macroconidia and Ascospores of *Gibberella zeae* on *Fusarium* Head Blight Development in Wheat. Poster presented at the 2008 National *Fusarium* Head Blight Forum, Crowne Plaza Hotel at Historic Union Station, Indianapolis, Indiana USA, December 2 - 4, 2008

Odenbach, K. J., **Salgado, J. D.**, Madden, L.V. and Paul, P. A. 2008. Influence of Cultivar Resistance, Infection Timing, and Inoculum Density on FHB Development and DON Accumulation in Asymptomatic Wheat Spikes. Poster presented at the 2008 National *Fusarium* Head Blight Forum, Crowne Plaza Hotel at Historic Union Station, Indianapolis, Indiana USA, December 2 - 4, 2008

Salgado, J. D., Broders, G., Madden, L., and Paul, P. 2007. Characterization of DON accumulation in SRWW cultivars with different levels of type II resistance to FHB. Poster presented at the 2007 National *Fusarium* Head Blight Forum, Kansas City, MO. December 2-4, 2007.

HONORS AND AWARDS:

- 13th I. E. Melhus Graduate Student Symposium award (2013). US\$ 620 awarded from APS Foundation.

- CC Allison Award, Department of Plant Pathology (2012) for excellence in research and service. US\$ 800 awarded from Plant Pathology Department.
- OARDC SEEDS grant, Mycotoxin contamination of wheat grain by different Fusarium species and chemotypes under different climate change scenarios, 2012. US\$ 5000 awarded from SEED Research Enhancement Competitive Grant Program.
- Travel award to attend the Second RUFORUM Biennial Regional Conference on *Building Capacity for Food Security in Africa*, held 20 – 24 September 2010, Entebbe, Uganda. US\$ 2250 awarded from RUFORUM.
- OARDC Professional Growth Scholarship - US\$ 500 Travel award to attend the 2011 National Fusarium Head Blight Forum. St Louis, MO. December 4 – 6, and US\$ 500 Travel award to attend the 2012 APS National Meeting in Providence, RI. August 4-8.
- The Patricia Ngwira Travel Grant Program (US\$ 300) - Travel award to attend the 2010 National APS meeting in Charlotte, NC. August 1 - 6, 2010, and (US\$200) travel award to attend the 2011 National Fusarium Head Blight Forum. St Louis, MO. December 4 – 6. Funds were awarded from Plant Pathology Graduate Student Association (PPGSA).

PROFESSIONAL SOCIETIES, ASSOCIATIONS AND CLUBS

- Member of The American Phytopathological Society (2008-present).
✓ Epidemiology committee (2009-present)
- OARDC Scholars Association (2011-present)
Treasurer and Social Activities coordinator (Academic period 2011 - 2015)
- AGEAP – Pan-American School of Agriculture Alumni Association (2002 – Present)
- Gamma Sigma Delta- Honor Society of Agriculture, Ohio Chapter (2012 – Present)
- Plant Pathology Graduate Student Association (2008-2014)
 - President (Academic period 2011 -12)
 - Graduate Studies committee (Academic period 2010 -11)
 - Plant Sale coordinator and committee (Academic period 2009 -11)
 - Plant Sale event in Wooster and Columbus (Academic period 2009 -13)
 - Graduate Student Orientation (Autumn 2011 - 2013)
 - Guest Speaker and Student Exchange – Planning committee (2011 -12)
 - Coordinated Student career development meetings (2012 - 2013)
 - Student Guest Speaker at Penn State University (Spring 2013)
 - Guest Speaker program and committee coordinator (Fall 2013)

ACADEMIC SERVICE:

- **Plant Pathology Teaching Assisting and Extension program:**
 - ✓ Plant Pathology Field Diagnostics - PP685 (Summer 2011)
Lab course planning, set up, lecture and course examination
 - ✓ Introduction to General Plant Pathology – PP401 (Autumn 2011)
Lab course planning, set up, lecture and course examination
 - ✓ International Diagnostic workshop (Summer 2013, 2014 and 2015)
Basic Introduction and hands-on practice on mycotoxin detection and analysis
 - ✓ OARDC Agronomy Workshops (Winter 2016)
Preparing and deliver demonstration on mycotoxin testing to extension educators and crop advisers
- Summer Research Opportunity Program (SROP): Mentoring and training to undergraduate students to advance to graduate school programs (Summer 2013). Student: Jasmin V. Morales (University of Puerto Rico- Aguadilla). Project: Growth, Sporulation and Mycotoxin Contamination of Wheat Grain by *Fusarium graminearum* under different Climate Change Scenarios.
- Participated as guest/ Plant Pathology representative at Dean’s Dinner and Reception for CIC/SROP Summer Research Conference at Longaberger Alumni House, Columbus campus. July, 15th, 2011.
- Participation in the OSU/OARDC 2011 Wayne County Fair Booth 2011– Talk about research activities and answer questions to visitors. September, 2011.
- Event planning committee for the 2011 First Symposium of Zamoranos in the U.S. Shisler Conference Center, OARDC. Wooster, OH. May 2011.
- Planning and coordination of OARDC Scholars workshop entitled: "Effective interviewing skills: What to do before, during, and after an interview process," on Wednesday, Dec. 14th, 2011 presented by Dr. Ana Berríos- Allison of the OSU Office of Student Life & Career Connection.
- Participation in the OSU/ATI 2011 and 2013 Upward Bound Program – One hour presentation about 1) Honduras and perspectives about studying abroad, 2) My experience as an undergraduate and graduate student: Challenges and Opportunities
- Participation in the 2010 and 2011 Micki Zartman - Scarlet and Gray Ag Day: A legacy for Norman Borlaug. May 21, 2010 and May 13, 2011. The Ohio State University Agriculture Campus. In a team effort from members of PPGSA, we gave an oral presentation entitled: “Wheat: From seed to Flour’ and “Plant Doctors” for 2010 and 2011 respectively. The event hosted several groups of students and teachers from elementary and middle school as part of a 4-H program.