

AMY DELGADO, MS DVM PhD

EDUCATION:

Degree	Institution	Field	Year	Honors
PhD	Texas A&M University	Biomedical Sciences (Epidemiology)	2011	
DVM	Texas A&M University	Veterinary Medicine	2006	Cum Laude
MS	Texas A&M University-Kingsville	Animal Science (immunology)	2002	
BS	Texas A&M University-Kingsville	Animal Science	2001	Summa Cum Laude

SELECTED PROFESSIONAL EXPERIENCE:

National Center for Foreign Animal and Zoonotic Disease Defense, College Station, TX, August 2012 – Present,
Research Scientist; Disease Spread Simulation Modeling

- Identify research questions in collaboration with USDA and the Department of Homeland Security and addressing these questions through the development of scenarios to model disease spread and control using the North American Animal Disease Spread Model (NAADSM)
- Examine the effects of various diagnostic testing schemes and diagnostic test characteristics on the severity and magnitude of an outbreak of foot-and-mouth disease in Texas using NAADSM 3.2
- Examine potential linkages between cattle movement network models and disease spread models through literature reviews and discussions with researchers at Colorado State University
- Provide epidemiologic support and analysis to various projects within the FAZD center

Inter-American Institute for Cooperation on Agriculture, Agricultural Health and Food Safety, San Jose, Costa Rica, June 2009 –June 2012

Epidemiologist (Associate Professional Officer); Veterinary Epidemiologist/Para-epidemiologist (VEP) Project

- Provide technical assistance to public, private, and non-profit partners in participating countries to improve public and animal health through improved disease surveillance and control. Mentor participants in the design, implementation, and evaluation of epidemiologic studies, including literature reviews, sampling, laboratory analysis of environmental and/or animal samples, and data analysis/interpretation.
- Serve as coordinator for the USDA-APHIS-IS-funded Veterinary Epidemiologist/Para-epidemiologist Project (VEP). Project management including budgeting, participant oversight, reporting to funding agencies. Development of training activities and capacities assessment for project participants, as well as the final overall project evaluation.
- Provide technical assistance to countries in outbreak investigations for diseases affecting animal production or public health; provide teaching and training courses in risk communication, risk analysis, emergency response, and epidemiology.
- Serve as agency representative to national, regional, and international partners responsible for building consensus and fostering partnerships that strengthen disease surveillance and control within the Caribbean region.

Texas A&M University, Department of Veterinary Integrative Biosciences, College Station, TX, June 2006-May 2009, Supervisor: Dr. Bo Norby

Post-doctoral Research Assistant; Social Context of FMD Control Study

- Analyzed current emergency response plans for foot-and-mouth disease, and conducted interviews with stakeholders involved in FMD emergency response. Analyzed qualitative social-psychological data using content analysis in order to develop a theoretical framework for disease reporting and control.
- Designed a quantitative questionnaire to identify factors associated with disease reporting and cooperation with disease control measures. Developed complex, population-based sampling strategies for administration of the postal survey.
- Analyzed weighted, quantitative data using multivariable modeling and non-parametric data analysis, and developed recommendations for improved communication for behavior change.
- Prepared manuscripts for publication in peer-reviewed journals and distribution to stakeholders.

Department of Environment, Food and Rural Affairs, DEFRA Office, Page Street, London, UK

Intern; Emergency response communication and coordination

- Conducted interviews with government officials, veterinarians, and cattle producers regarding changes since the 2001 outbreak of FMD in the UK.
- Analyzed changes in policy and communications following a large-scale outbreak of a highly contagious disease in order to identify policy recommendations and communication needs.

USDA International Services, USDA-APHIS-IS Office, Mexico City, June 2005

Extern; Transboundary diseases and trade

- Examined US/Mexico relations in regard to international trade and the control of transboundary animal diseases through participation in the USDA policy process
- Worked with government officials on the rabies control program (vampire bat-related), avian influenza surveillance, and the bovine tuberculosis eradication program

Texas A&M University-Kingsville, Department of Animal Science, Kingsville, TX, June 2001-August 2002

Graduate Research Assistant; Stress physiology and immunology

- Examined the effects of dexamethasone, insulin-like growth factor-1, and growth hormone on pig lymphocyte function *in vitro* including immunoglobulin production and cell proliferation.

AWARDS AND HONORS:

2009	Association for Veterinary Epidemiology and Preventive Medicine (AVEPM) Graduate Student Travel Award for the International Symposium for Veterinary Epidemiology and Economics
2009	College of Veterinary Medicine and Biomedical Sciences – Research Symposium Platform Presentation Award – 1 st place
2007	Summer Research Grant award from the Texas A&M University European Union Center of Excellence
2007	Graduate Student Research Grant award from the George Bush Presidential Library Foundation
2006 – 2007	Fellowship from the National Science Foundation’s Partnership for Environmental Education and Rural Health (PEER) Program
2006 – 2007	Graduate assistantship from the National Center for Foreign Animal and Zoonotic Disease Defense, Texas A&M University
2006	Member of the Phi Zeta National Veterinary Honor Society

PROFESSIONAL LICENSES/CERTIFICATIONS:

- 2006 Texas State Veterinary License, Texas State Board of Veterinary Medical Examiners
- 2006 -2010 Veterinary Accreditation – US Department of Agriculture

TRAINING AND OUTREACH ACTIVITIES COORDINATED:**Texas A&M University:**

Criteria for the Transition of FAD-related Models to Use in Decision-Making, Center for Foreign Animal and Zoonotic Disease Defense and Department of Homeland Security, Science and Technology Directorate, May 2013

Planned, coordinated, and conducted a three-day workshop examining the development, evaluation, and transition to use of foreign animal disease-related models in order to inform future funding and model development efforts, 35 participants

Risk communication, 2009 (spring)

2 hr lecture in VIBS 930 Veterinary Public Health, Department of Veterinary Integrative Biosciences, College of Veterinary Medicine and Biomedical Sciences, 128 students

Foreign Animal Diseases, 2008 (spring)

1 hr lecture in VIBS 930 Veterinary Public Health, Department of Veterinary Integrative Biosciences, College of Veterinary Medicine and Biomedical Sciences, 133 students

Risk Communication for the Veterinary Practitioner, August 2008

1 hour lecture, presented at the Foreign Animal and Zoonotic Diseases and Biosecurity Seminar, hosted by the Texas Agrilife Extension Service, 35 participants

Crossborder Animal Health Issues: Transboundary Animal Diseases, 2007 (spring and fall)

1 hr. guest lecture in ALEC 489 Survey of International Agricultural Development, Department of Agricultural Leadership, Education, and Communications, College of Agriculture and Life Sciences, 35 students per class

Inter-American Institute for Cooperation on Agriculture:

Red Tide: 2012 Caribbean Regional FMD Outbreak Response Table-top Exercise Simulation, March 2012

Planned, coordinated, and conducted a full-day table-top simulation exercise for the veterinary services and disaster management agencies of Antigua and Barbuda, Barbados, Dominica, Grenada, Haiti, St Lucia, St Kitts and Nevis, and St Vincent and the Grenadines, and the USDA-VS office in Puerto Rico and the US Virgin Islands. ~150 participants

Potential Impact of the United States Food Safety Modernization Act (FSMA) workshop, January 2012

Assisted with the delivery of a half-day workshop for technical staff, regulatory decision makers, manufacturers, importers and exporters, and producers in collaboration with the Food and Drug Administration (FDA) for Antigua and Barbuda, Bahamas, Barbados, Belize, Dominica, Grenada, Guyana, Jamaica, St Lucia, St Kitts and Nevis, St Vincent and the Grenadines, Suriname, and Trinidad and Tobago using both webcasting and videoconferencing technology, approx 70 participants.

Quantitative Risk Analysis for Animal Health Videoconference short course, May 2011

Facilitated the delivery of a 5-day short course, assisted with laboratory sessions and assignments for technical staff from National Veterinary Services of Mexico, Honduras, Guatemala, Belize, El Salvador, Costa Rica, Nicaragua, Panama, Dominican Republic, Colombia, Venezuela, Ecuador, Peru, Bolivia, Paraguay, Uruguay, Chile, Argentina, and Brazil, in collaboration with researchers from University of California-Davis, ~100 participants

Epidemiologic studies for Veterinary Epidemiologist/Para-epidemiologists Project (VEP) participants – final workshop, April 2011

Workshop to finalize the epidemiologic studies conducted as part of the VEP project training program, assisted participants with data entry, analysis, and presentation of study results with veterinary staff from Antigua and Barbuda, Barbados, Dominica, Dominican Republic, Grenada, Haiti, Jamaica, St. Kitts and Nevis, St. Lucia, St Vincent and the Grenadines, Trinidad and Tobago, San Jose, Costa Rica, 12 participants

Agricultural Risk Communication Videoconference Workshop, October 2010

Co-developed and delivered a 1.5-day course (lecture and laboratory) for technical staff from the National Veterinary Services of Mexico, Honduras, Guatemala, Belize, El Salvador, Costa Rica, Nicaragua, Panama, Dominican Republic, Colombia, Venezuela, Ecuador, Peru, Bolivia, Paraguay, Uruguay, Chile, Argentina, and Brazil, in collaboration with researcher from the University of Nebraska, ~300 participants

Agricultural Risk Communication Workshop, March 2010

Co-developed and delivered a 2-day course (lecture and laboratory) for agricultural professionals from the Institute for Colombian Agriculture, IICA-Colombia office, Bogota, Colombia, 50 participants

Agricultural Risk Communication Workshop, June 2010

Co-developed and delivered a 2-day course (lecture and laboratory) for agricultural professionals from Ecuador Ministry of Agriculture, IICA-Ecuador office, Quito, Ecuador, in collaboration with researcher from the University of Nebraska 30 participants

Agricultural Risk Communication Workshop, June 2010

Co-developed and delivered a 2-day course (lecture and laboratory) for agricultural professionals from Peruvian Ministry of Agriculture, IICA-Peru office, Lima, Peru, in collaboration with researcher from the University of Nebraska, 24 participants

Outbreak simulation exercise for highly contagious swine diseases, December 2009, March & April, 2010

1 hour lecture over outbreak risk communication, supervision of field teams during the two-day exercise, 4 separate simulations delivered; La Vega, Santiago, San Juan, San Francisco districts of the Dominican Republic, ~25 participants per simulation

Table-top simulation exercise over Rift Valley Fever Introduction, May 2010

Facilitated group work based on Incident Command System principles for each of the teams, coordinated course logistics and facilitated the participation of veterinary professionals from 11 different countries, Department of Agriculture, St. Croix, US Virgin Islands, 50 participants

Epidemiologic studies for Veterinary Epidemiologist/Para-epidemiologists Project (VEP) participants – preliminary workshop, October 2009

Workshop over study design, sampling, and introductory risk analysis, delivered 1 hr lecture over behavioral measures for epidemiologic studies, worked with participants on project selection, study design, and questionnaire design, included veterinary staff from Antigua and Barbuda, Barbados, Dominica, Dominican Republic, Grenada, Haiti, Jamaica, St. Kitts and Nevis, St. Lucia, St Vincent and the Grenadines, Trinidad and Tobago, in collaboration with researchers from USDA-APHIS-VS, University of Florida, Colorado State University, Fort Collins, CO, 12 participants

Emergency Response Preparedness and GIS training for Veterinary Epidemiologist/Para-epidemiologists Project (VEP) participants, May 2009

1-week workshop over the principles of ICS, emergency response planning for HPAI outbreaks, and the use of GIS during a disease outbreak, included veterinary staff from Antigua and Barbuda, Barbados,

Dominica, Dominican Republic, Grenada, Haiti, Jamaica, St. Kitts and Nevis, St. Lucia, St Vincent and the Grenadines, Trinidad and Tobago, in collaboration with researchers from USDA-APHIS-VS

PUBLICATIONS/PRESENTATIONS:

Thomas, D., **Delgado, A.**, Louison, B., Lefrancois, T., Shaw, J. 2013. Examining dog owners' beliefs regarding rabies vaccination during government-funded vaccine clinics in Grenada in order to improve vaccine coverage rates. *Preventive Veterinary Medicine* 110:563-569.

Aimey V, K Hunte, P Whitehall, B Sanford, **A Delgado**, J Hernandez. 2013. Prevalence of *Salmonella* on commercial egg-laying farms in Barbados, 2009-2010. *Preventative Veterinary Medicine* 110:489-496.

Delgado, A., Norby, B., Dean, W., McIntosh, A., Scott, H.M. 2011. Utilizing qualitative methods in survey design: Examining Texas cattle producers' intent to participate in foot-and-mouth disease detection and control. *Preventative Veterinary Medicine*, 103 (2-3), pp 120-135.

M.I. Percedo Abreu, J. Guitián, K. Herbert-Hackshaw, L. Bournez, M. Petit-Sinturel, **A. Delgado**, B. Sanford, M. Trotman, C. Lazarus, J.F. López, L. Gomez, M.T. Frías-Lepoureau, M. Depaz, S. Phanord, S. Titus, M. Paris Aaron, V. Gongora & T. Lefrançois. 2011. Assessing animal health-related risks in the Caribbean: Importance for the preventive strategy at the regional level. *Scientific and Technical Review of the OIE*, 30 (3), pp 725-731.

Doctoral Dissertation:

Delgado, A. 2011. The Social Context of Foot-and-Mouth Disease Control in Texas: Foundations for Effective Risk Communication. Dissertation. Texas A&M University. December.

Master's thesis:

Delgado, A. 2002. Effect of IGF-1 and Growth Hormone on Pig Lymphocyte Function *in vitro*. Thesis. Texas A&M University-Kingsville. December.

Proceedings:

A. Delgado, C. Faverjon, T. Lefrancois, J. Shaw, V. Gongora, K. Hackshaw, J. Pradel Building capacities in animal health in the Caribbean: The Veterinary Epidemiology/Para-Epidemiology Project (VEP) 13th International Symposium for Veterinary Epidemiology and Economics, August 20-24th, 2012, Maastricht, Germany (proceedings).

Aimey, V.P., Hernandez, J.A., Hunte, K.D., Whitehall, P.J., Sanford, B.L., St. John, V.S., **Delgado, A.**, Shaw, J., Lefrancois, T., Trotman, M. Prevalence of *Salmonella* on commercial layer farms in Barbados, 2009-2010 13th International Symposium for Veterinary Epidemiology and Economics, August 20-24th, 2012, Maastricht, Germany (proceedings).

P. Bartlette, T. Porphyre, B. Morton, S. Alfred, P. Beattie, S. Sampson, **A. Delgado**, J. Shaw, T. Lefrançois and J. Pradel Factors associated to *Amblyomma variegatum* (TBT) presence in farms in Nevis and determination of high risks TBT areas. 13th International Symposium for Veterinary Epidemiology and Economics, August 20-24th, 2012, Maastricht, Germany (proceedings).

Laurent M, Bournez L, **Delgado A**, M. Mondesir, Shaw J, Lefrançois T, Pradel J, CaribVET Avian Influenza Working Group, M. Trotman. Fighting cocks: risk for the Caribbean regarding Avian Influenza and Newcastle disease. 13th International Symposium for Veterinary Epidemiology and Economics, August 20-24th, 2012, Maastricht, Germany (proceedings).

M.I. Percedo Abreu, J. Guitián, K. Hackshaw, J. Pradel, V. Gongora, T. Lefrançois, **CaribVET Epidemiology Working Group**. Developing a disease prevention strategy in the Caribbean: the importance of assessing animal health - related risks at the regional level. 13th International Symposium for Veterinary Epidemiology and Economics, August 20-24th, 2012, Maastricht, Germany (proceedings).

Petit Sinturel M, **A Delgado**, L Bournez, J Pradel, J Shaw, C Zepeda, V Gongora, T Lefrancois. 2011. Capacity building as a main tool for improvement of Regional Animal Health Network. Presented at the International Conference on Animal Health Surveillance, Lyon, France, May 2011, to be published in special edition of *Epidemiologie et Santé Animale* (proceedings).

Delgado, A., Norby, B., Dean, W., McIntosh, A., Scott, H.M. 2008. Social Determinants of Producer Participation in Foot-and-Mouth Disease Response: A Qualitative Approach to Aid Survey Design. Page 136 in Proc. Conference for Research Workers in Animal Diseases, December 6-9, Chicago, IL (Proceedings).

Delgado, A., Norby, B., Dean, W., McIntosh, A., Scott, H.M. 2009. Evaluating Texas dairy producers' attitudes and intentions towards their expected roles in foot-and-mouth disease detection and control. Proceedings of the 12th International Symposium for Veterinary Epidemiology and Economics, Durban, South Africa, August 10.

Delgado, A., Norby, B., Dean, W., McIntosh, A., Scott, H.M. 2009. Dairy producers' perceptions of the risk of foot-and-mouth disease: Implications for risk communication. Proceedings of the 12th International Symposium for Veterinary Epidemiology and Economics, Durban, South Africa, August 10.

Delgado, A., TH Welsh, Jr., J.C. Laurenz. 2002. Effect of dexamethasone (DEX) and insulin-like growth factor-1 (IGF-1) on pokeweed mitogen (PWM)-induced lymphoproliferation and immunoglobulin production. *Journal of Animal Science*. 80: Supplement 1.

Contributed Presentations:

Delgado, A. 2011. The Social Context of FMD Control in Texas. Invited presentation for the National Center for Animal Health Emergency Management, Riverdale, MD.

J R Jacques Simon, M Petit-Sinturel, M Millien, **A Delgado**, J Shaw, D Pyburn, M Deng, J Pradel, S Metwally, S Swenson, T Lefrancois. 2011. Epidemiology Project in Haiti: Risk factors related with the presence of Teschovirus encephalomyelitis disease. Accepted for presentation at 6th International Symposium on Emerging and Re-emerging Pig Diseases, Barcelona, Spain, June 12-15th.

McIntosh, W.A.; Norby, B.; Dean, W.R.; **Delgado, A.**; Davis, J.; Jan, J-S. 2010. Risk, trust, and moral obligations and attitudes in the Texas Dairy Industry. Annual Meeting of the Rural Sociology Society, August 12-15, Atlanta, Georgia

McIntosh, W. A., W. Dean, B. Norby, H M. Scott, **A. Delgado**, and J. Davis. 2009. Trust, Risk, and Moral Obligations in the Beef Cattle Industry. The annual meeting of the Association for the Study of Food and Society, May 31, State College, Pennsylvania.

McIntosh, W. A., W. R. Dean, B. Norby, H. M. Scott, **A. Delgado**, and J. Davis. 2009. Moral Obligations and Instrumental Beliefs in the Willingness of Dairy Farmers and Cow-Calf Operators to Implement Preventive Behaviors during a Foot and Mouth Disease Outbreak. The Annual meeting of the Rural Sociological Society, Madison, WI. July 31.

Delgado, A.; Norby, B.; Dean, W.; McIntosh, W.; Scott H.M. (2009) Texas dairy producers' attitudes and intentions towards foot-and-mouth disease detection and control. Oral presentation at the CVM Graduate Student Research Symposium. College Station, Texas.

Delgado, A.; Norby, B.; Dean, W.; McIntosh, W.; Scott H.M. (2009) A qualitative assessment of the social

determinants of producer participation in foot-and-mouth disease prevention, detection, and control. Poster presented at the Agrilife Research Symposium.

Dean, W. R., **A. H. Delgado**, W. A. McIntosh, B. Norby, H. M. Scott. 2009. Evaluating Cattle Producers' Participation during a Hypothetical Outbreak of Food-and-Mouth Disease in Texas: The Role of Trust, Risk Perception, Affect and Moral Duty. Rural Sociological Society, 72nd Annual Meeting, Madison, WI.

Delgado, A., B Norby, G Wagner. 2008. Effects of foreign animal disease outbreaks on UK animal health policy: Implications for emergency response in the United States. Poster presented at National Center for Foreign Animal and Zoonotic Disease Defense Annual Meeting, February 28; US. Department of Homeland Security University Network Summit, March 18; and College of Veterinary Medicine- Graduate Student Association Spring Research Symposium, April 3.

Delgado, A. 2008. Foot and Mouth Disease Control: Policy and the Producer. Invited presentation for the Panhandle Area Working Group meeting, Amarillo, TX.

Delgado, A. 2007. The Social Context of Foreign Animal Disease Control. Presented at the Texas Animal Health Commission Area Directors Work Conference, College Station, TX.

Delgado, A. 2007. My time with DEFRA: Experiences, Perspectives, and Ideas. Presented to the Department of Environment, Food and Rural Affairs. Page Street, London, UK.

Technical presentations:

Delgado, A. 2012. Communication and Cooperation. Delivered to the USDA Incident Management Teams via teleconference.

Delgado, A. 2011. The social context of FMD control: Implications for emergency response and communication. Delivered to the USDA National Center for Animal Health Emergency Management, Riverdale, MD.

Delgado, A. 2011. The Veterinary epidemiologist/Para-epidemiologist Project. Delivered to the CaribVET steering committee meeting, St. Francois, Guadelupe

Delgado, A. 2011. Risk pathways in the Caribbean and Risk Communication for the Fighting Cock Industry. Delivered to the CaribVET steering committee meeting, St. Francois, Guadelupe

Delgado, A. 2010. The Veterinary Epidemiologist/Para-epidemiologist Project. Delivered at the CaribVET steering committee meeting, Santo Domingo, Dominican Republic

Delgado, A. 2009. Update on the progress of the Veterinary epidemiology/Para-epidemiology Project. Presented to the epidemiology working group of the CaribVET network.