

## **SHERYLL B. JEREZ, PH.D.**

### **PROFESSOR OF ENVIRONMENTAL SCIENCE STEPHEN F. AUSTIN STATE UNIVERSITY**

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## **Education**

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- **Doctor of Philosophy in Agricultural Engineering**  
University of Illinois at Urbana-Champaign, Urbana, IL – October, 2007  
Dissertation: Airborne Pollutant Spatial Distribution, Emission, and Ventilation Effectiveness for Mechanically Ventilated Livestock Buildings  
Area of Emphasis: Environment and Structure
- **Master of Science in Biological and Agricultural Engineering**  
Kansas State University, Manhattan, KS – May, 2002  
Thesis: Experimental and Numerical Modeling of Dust Transport in a Mechanically Ventilated Airspace  
Area of Emphasis: Environment and Structure
- **Air Quality Certificate**  
Kansas State University, Manhattan, KS – May, 2002
- **Bachelor of Science in Agricultural Engineering,**  
University of the Philippines at Los Baños, Laguna, The Philippines – April, 1996  
Thesis: Drying and Milling of *Azolla nilotica* for Feed Production  
Area of Emphasis: Food Processing

## **Professional, Teaching, and Research Experience**

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- Director, Division of Environmental Science, Stephen F. Austin State University  
Nacogdoches, TX [September 1, 2023 to present]
- Interim Dean, Office of Research and Graduate Studies, Stephen F. Austin State University  
Nacogdoches, TX [August 1, 2022 to July 31, 2023]
- Professor, Division of Environmental Science, Stephen F. Austin State University  
Nacogdoches, TX [September 2020 to present]
- Interim Associate Dean, College of Forestry and Agriculture, Stephen F. Austin State University  
Nacogdoches, TX [August 1, 2018 to February 1, 2019]
- Associate Professor, Division of Environmental Science, Stephen F. Austin State University  
Nacogdoches, TX [September 2013 to August 2020]
- Assistant Professor, Division of Environmental Science, Stephen F. Austin State University  
Nacogdoches, TX [November 2007 to August 2013]
- Graduate Research Assistant, Department of Agricultural and Biological Engineering  
University of Illinois at Urbana-Champaign, Urbana, IL [August 2002 – October 2007]
- Research Engineer, Department of Agricultural and Biological Engineering  
University of Illinois at Urbana-Champaign, Urbana, IL [March 2002 - July 2002]
- Graduate Research Assistant, Department of Biological and Agricultural Engineering

- Kansas State University, Manhattan, KS [January 2001 to February 2002]
- Visiting Scholar, Department of Biological and Agricultural Engineering  
Kansas State University, Manhattan, KS [October 1998 to December 2000]
  - Research Assistant, Agricultural and Bio-Process Engineering  
University of the Philippines at Los Baños, Philippines [April 1997 to August 1998]

## Teaching Activities

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### Teaching Assignments

- ENVR 1301/1101 – Introduction to Environmental Science  
A core curriculum course of Natural Sciences  
Semesters offered/taught: Spring, Summer, Fall since academic year 2007-2008
- ENVR 2310/2010 – Environmental Measurements  
Semesters offered/taught: every Fall since academic year 2007-2008
- ENVR 4350/5350 – Air Quality Assessment  
Semesters offered/taught: every Spring since academic year 2007-2008

### Graduate Students Supervised/Advised

- Jeffrey Chua (May 2017 – December 2021)  
Role: Dissertation Committee Member  
Title of Dissertation: The Lived Experiences of Filipino Teachers Teaching in Texas: A Transcendental Phenomenological Study
- Heather Hall (Completed May 2021)  
Role: Thesis Committee Chair  
Master's Thesis: Development of Standard Operating Procedure with Modified Method to Quantify Benzene and Other Volatile Organic Compounds in Air Samples Using Gas Chromatography
- Osakpamwan Michael-Edo-Iyasere (April 2018- present )  
Role: Research Committee Member  
Master's Thesis: Investigating the Influence of Environmental Variables on the Height Growth of Loblolly Pine (*Pinus taeda*)
- Regina Moyana (Completed May 2019)  
UT Health Center at Tyler  
Role: External Committee Member  
Master's Thesis: Regulation of lung inflammatory mediators by bacterial extracellular vesicles isolated from organic dust
- Sarah Caton (April 2018-December 2020)  
Role: Research Committee Member  
Master's Thesis: Quantification and characterization of mineral and organically sourced particulate deposition in east Texas.
- Michael Tiller (2017- present)  
Role: Dissertation Committee Member  
Title of Dissertation: Spatial and Seasonal Flammability Comparison of Endemic and Exotic Plants in the Post Oak Savannah, Blackland Prairie, and Piney Woods Ecoregions of Texas.
- Dara Winsted (January 2018-present)  
Role: Research Adviser/Supervisor, Thesis Committee Chair  
Title: Utilizing Geographic Information Systems to Evaluate Red-Cockaded Woodpecker Habitat Fragmentation.
- Jeannie Jeffus (November 2018)  
Non-thesis  
Committee Member – Oral Examination on 11/2/2018

- Anna Williamson (May 2018)  
Non-thesis  
Committee Member – Oral Examination on 4/20/2018
- Elaine Harris (April 2019)  
Role: Research Committee Member  
Master's Thesis: Soil amelioration and plant establishment on sodium affected soils on Galveston Island, Texas
- Nelson Esike (June 2016 – present)  
Role: Research Adviser/Supervisor, Thesis Committee Chair  
Master's Thesis: *in development*
- Raymond Ekaba (January 2016 – present)  
Role: Research Adviser/Supervisor, Thesis Committee Chair  
Master's Thesis: *in development*
- Laura Duffie (May 2017)  
Role: Thesis Committee Member  
Master's Thesis: Mercury Concentrations in Snowy Plovers and Sediments of their Breeding Environment in Oklahoma and the Southern High Plains of Texas and Mexico
- Laura Fimibama (Completed December 2016)  
Role: Research Adviser/Supervisor, Thesis Committee Chair  
Master's Thesis: An Exploratory Study on the Possible Effects of Hydraulic Fracturing Activities on Air Quality in the Eagle Ford Shale Region of Texas
- Anna Iwaki. (March 2015 – present) MS Resource Interpretation  
Role: Research Committee Member  
Master's Thesis: *in development*
- Mickey Shortt, Jr. (March 2015 – present) MS Resource Interpretation  
Role: Research Committee Member  
Master's Thesis: *in development*
- Marife Anunciado (Completed May 2016)  
Role: Research Adviser/Supervisor, Thesis Committee Chair  
Master's Thesis: Examination of the Effectiveness of Selected Plant Species for Removing Atmospheric Ammonia
- Samuel Sewell (Completed May 2016)  
Role: Graduate School Representative  
Master's Thesis: Spatial Analysis of White-Tailed Deer Distribution in a High Fenced Area of East Texas
- Ahmad Nasser (Completed May 2015)  
Role: Research Adviser/Supervisor, Thesis Committee Chair  
Master's Thesis: Assessment of Workers Exposure to Ammonia in Animal Facilities
- Corey Johnson (December 2013 – 2015)  
Role: Committee Member (non-thesis)
- Lauren Williams (Department of Chemistry and Biochemistry) – Completed May 2015  
Role: Thesis Committee Member  
Master's Thesis: Synthesis and Characterization of Biodiesel Fuels by Clay-Catalyzed Transesterification
- Jorge J. Ojeda (Department of Chemistry and Biochemistry) - Completed August 2015  
Role: Thesis Committee Member  
Master's Thesis: Quantitative Analysis of Benzantrone and Nitrobenzantrones in Angelina and Nacogdoches County Soils Along Highway 59
- Ryan Scavo (Completed August 2015)  
Role: Committee Member

Master's Thesis: Protecting Resources from Being Loved to Death: Communication and Messaging Techniques at Glenn Canyon Recreation Area/Rainbow Bridge National Monument and Other Protected Sites in the United States

- Katie Banks (Department of Agriculture) – completed May 2014  
Role: Thesis Committee Member  
Master's Thesis: Evaluation of different Zinc sources at varying inclusion rates in commercial broiler chickens on performance, meat yield, gut tensile strength, and tibia bone analysis
- Damika Thomas (Completed May 2014)  
Role: Research Adviser/Supervisor, Thesis Committee Chair  
Master's Thesis: Estimating the Dispersion of Pollutants from CAFO's in Texas – A Preliminary Study
- Claire Saunders (Completed May 2012)  
Role: Thesis Committee Member  
Master's Thesis: Effects of dissolved organic matter and salinity on the toxicity of individual and metal mixtures of copper with zinc and silver to the saltwater rotifer, *Brachionus plicatilis*
- Jon Jokiel (Completed August 2011)  
Role: Thesis Committee Member  
Master's Thesis: Perpetuating the Hawaiian Renaissance through Deeper Cultural Connections and Immersion Experiences
- Wesley Ward (Completed August 2011)  
Role: Thesis Committee Member  
Master's Thesis: Occupational Exposure and Evaluation of Microbial Diversity of Organic Dust, Bioaerosols and Endotoxin Using Pyrosequencing in a Chicken Broiler
- Raymond Olympio (Completed December 2010)  
Role: Research Adviser/Supervisor, Thesis Committee Chair  
Master's Thesis: In Situ Measurement of Ammonia Emissions from Poultry Litter
- Larry Minton (Completed May 2010)  
Role: Master's Thesis Committee Member  
Thesis: Sources of Zinc in Storm Water Runoff at an Industrial Facility
- Yan Cheng (Completed December 2009)  
Role: Research Adviser/Supervisor, Thesis Committee Chair  
Master's Thesis: Quantification of Personal Exposure and Aerial Concentrations of Particles and Bioaerosols in a Poultry Building
- Elizabeth High (Completed August 2009)  
Role: Research Adviser/supervisor, Thesis Committee Chair  
Master's Thesis: Quantification of Ammonia and Hydrogen Sulfide Production

## Research Activities

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### Funded Grants

- Comparison of benzene and other volatile organic compounds in ambient air near the Eagle Ford Shale area - an exploratory study. Faculty Research Grant. RCA2018-046. (\$9850 + summer salary)
- Exploration Study on the Effects of Hydraulic Fracturing on Air Quality in Texas. Faculty Research Grant. RCA2015-064.
- Demonstrating the Effects of Trees for Controlling Particulate Matter, Ammonia, and Odor from Poultry Buildings. Natural Resources Conservation Service Award Identifying No. 65-7442-12-350 (\$180,000 total, 50% co -shared/ September 1, 2012 – September 30, 2016) – PI
- Exploration Study on the Effects of Hydraulic Fracturing on Air Quality in Texas. Faculty Research Grant. RCA2015-064. (\$6,600 + summer salary 2015) - PI

- Estimating the Dispersion of Pollutants from CAFOs in Texas – A Preliminary Study. SFASU Faculty Research Grant # 2013-011 (\$12,715 + summer salary/2012-2013) – PI
- Evaluation of Electrostatic Particle Ionization (EPI) and Biocurtain (BC) Technologies to Reduce Dust, Odor, and Other Pollutants from Broiler Houses. TSSWCB via Texas A&M. (\$23,287 to SFASU; Total \$169,624/May 1, 2010 to April 30, 2012, TSSWCB Project No. 10-90) – PI, SFASU
- Study to Determine a Baseline of Nitrogen Excretion from Boiler Chickens as it Relates to Ammonia Odor Production. EPA Grant Number: R83315-010 (\$192,200/October 2007 to September 2010) Role: Co-PI.
- Quantification of Personal Exposure and Aerial Concentrations of Particles and Bioaerosols in and around Poultry Buildings. SFASU Faculty Research Grant # 2008-105 (\$9,405 + summer salary/2008-2009) – PI

## Publications

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### Refereed

- Anunciado, M.B., **Jerez, S.B.**, Williams, H., and Bray, J. 2021. Particulate Matter Capture of Plants Used as Shelterbelts Around a Poultry Farm. *Journal of Current Trends in Agriculture, Environment and Sustainability* 2(1):1-5.
- Tiller, M., B. Oswald, A. Frantzen, I. Hung, S. Jerez, and Y. Weng. 2020. Spatial and Seasonal Flammability Comparisons of Native and Exotic Plants in the Post Oak, Savannah, Blackland Prairie and Piney Woods Ecoregions of Texas. *Proceedings of the 20<sup>th</sup> Biennial Southern Silvicultural Research Conference. E-Gen. Tech. Rep SRS-253.* 338 pp.
- Anunciado, M.B., **Jerez, S.B.**, Williams, H., Bray, J., Coble, D., and Saito, R. 2019. Effectiveness of plant species for removing atmospheric ammonia. *Journal of Agriculture and Environmental Sciences* 8(1): 1-13.
- **Jerez, S.B.** X. Wang, and Y. Zhang. 2014. Quantification of Ventilation Effectiveness for Air Quality Control in a Swine Building. *ASHRAE Transactions* 120(1):460-468.
- **Jerez, S.B.**, Y. Cheng, J. Bray. 2014. Exposure of Workers to dust and bioaerosol on a poultry farm. *The Journal of Applied Poultry Research* 23:7-14.
- **Jerez, S.B.**, S. Mukhtar, W. Faulkner, K.D. Casey, M.S. Borhan, and R.A. Smith. 2013. Evaluation of electrostatic particle ionization and biocurtain™ technologies to reduce air pollutants from broiler houses. *Applied Engineering in Agriculture* 26(9): 975-984.
- **Jerez, S.B.** Y. Zhang, and X. Wang. 2011. Spatial and temporal distributions of dust and ammonia concentrations in a swine building. *Transactions of the ASABE* 54(5):1873-1892.
- **Jerez, S.B.** Y. Zhang, and X. Wang. 2011. Measurement of particle size distribution in a swine building. *Transactions of the ASABE* 54(3):1103-1117.
- **Jerez, S.B.**, Y. Zhang, and X. Wang. 2007. Ventilation effectiveness criteria and measurement methods applicable to animal buildings - a review. *ASHRAE Transactions*.vol. 113(1):400-407.
- **Jerez, S.B.**, Y. Zhang, J. McClure, L. Jacobson, A. Heber, S. Hoff, J. Koziel, and D. Beasley. 2006. Comparison of measured total suspended particulate matter concentration using tapered element oscillating microbalance and a TSP sampler. *Journal of the Air and Waste Management Association* 56:261-270.
- **Jerez, S.B.** and R.G. Maghirang. 2003. Effectiveness of local supply ventilation in improving worker zone air quality in swine confinement buildings - a pilot study. *ASHRAE Transactions* 109(2):822-828.
- Predicala, B.Z., J.E. Urban, R.G. Maghirang, **S.B. Jerez**, and R.D. Goodband. 2002. Assessment of bioaerosols in swine barns by filtration and impaction. *Current Microbiology* 44:136-140.

- Maghirang, R.G., **S.B. Jerez**, and B.Z. Predicala. 2001. Relative ventilation effectiveness in a mechanically ventilated airspace under isothermal conditions. Transactions of the ASAE 44(3):691-696.
- Predicala, B.Z., R.G. Maghirang, **S.B. Jerez**, J.E. Urbana, and R.D. Goodband. 2001. Dust and bioaerosol concentrations in two swine finishing buildings in Kansas. Transactions of the ASAE 44(5):1291-1298.

### News Articles/ Features/Interviews

- SFA Student Explores Possible Pollution by Sarah Fuller, Contributing Writer, Daily Sentinel, October 22, 2015. Vol. No. 117 Issue 43.
- Improving the Air, Graduate Student Analyzes Vegetation for Air Quality Improvement by Sarah Fuller, Contributing Writer, Daily Sentinel, July 24, 2015.
- Red River Radio by Kate Archer Kent, News Producer. July 29, 2015 at 12:15 PM. [redriverradio.org/post/stephen-f-austin-state-studies-native-trees-could-improve-air-around-poultry-farms](http://redriverradio.org/post/stephen-f-austin-state-studies-native-trees-could-improve-air-around-poultry-farms). Broadcast – August 10, 2015.

### Conference Proceedings

- Mukhtar, S., **S. Jerez**, B. Faulkner, and K. Casey. 2012. Use of BioCurtains and EPI System to Control Dust from Poultry Housing. National Poultry Waste Management Symposium. Shreveport, LA, 23-25 October. Co-author of invited presentation.
- **Jerez, S. B.**, S. Mukhtar, W. Faulkner, K.D. Casey, M.S. Borhan, and R.A. Smith. 2011. Evaluation of electrostatic particle ionization and BioCurtain™ Technologies to reduce air pollutants from broiler houses. ASABE Conference Paper no. 1110550. ASABE Annual International Meeting, Louisville, KY, 07-10 August.
- Nonnenmann, M., A. Hussain, K. Gilmore, W. Ward, **S. Jerez**, J. Bray, and J. Levin. 2011. Inhalable and respirable organic dust concentrations during broiler production. American Industrial Hygiene Conference and Exposition, Portland, OR. May 16-19.
- **Jerez, S.B.**, Y. Zhang, and X. Wang. 2010. Spatial distribution of particulate matter and ammonia concentrations in a swine building. ASABE Conference Paper no. 1009314. ASABE Annual International Meeting, Pittsburgh, PA, 20-23 June.
- High, E.B. **S. Jerez**, and J. Bray. 2009. Quantification of ammonia and hydrogen sulfide production from poultry litter. ASABE Conference Paper No. 096559. ASABE Annual International Meeting, Reno, NV, 21-24 June.
- **Jerez, S.B.**, Y. Zhang, and X. Wang. 2009. Measurement of particle size distribution in a swine building. ASABE Conference Paper no. 096565. ASABE Annual International Meeting, Reno, NV, 21-24 June.
- **Jerez, S.B.**, Y. Zhang, and X. Wang. 2008. Spatial distribution measurement and simulation of particulate matter concentration in a tunnel ventilated swine building. Livestock Environment VIII. Iguassu Falls, Brazil, 31 August – 4 September.

### Abstracts

- **Jerez, S.B.**, S. Mukhtar, M.S. Borhan, B. Faulkner, and K. Casey. 2011. Evaluation of Electrostatic Particle Ionization (EPI) and Biocurtain (BC) Technologies to Reduce Ammonia and Hydrogen Sulfide from Broiler Houses – A Preliminary Study. Abstract Submitted to American Society of Agricultural and Biological Engineers' 2011 Annual International Conference, Louisville, KY.
- High, E.B., **S.B. Jerez**, and J. Bray. 2009. Quantification of Ammonia and Hydrogen Sulfide Productions from Poultry Litter. Abstract submitted to the Texas Association of Environmental Professionals (TAEP) 3<sup>rd</sup> Annual Conference, Houston, TX. February 2009.
- Cheng, Y., **S.B. Jerez**, and J. Bray. 2009. Quantification of Personal Exposure and Aerial Concentrations of Particles and Bioaerosols in Poultry Buildings. Abstract submitted to the Texas Association of Environmental Professionals (TAEP) 3<sup>rd</sup> Annual Conference, Houston, TX. February 2009.

## Presentations and Participations

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### Conference (and Others) Presentations

- Lais, M., D. Creech, D. Kulhavy, and S. Jerez. 2020. Cost comparison of different trellis infrastructure for use in kiwifruit production in Texas. Graduate Research Conference. SFASU. April 7.
- Jerez, S.B. 2019. Vegetative Shelterbelts for Controlling Particulate Matter, Ammonia, and Odor from Poultry Houses. Beihua University, Jilin City, Jilin, China. July 16.
- Tiller, M., B. Oswald, A. Frantzen, I. Hung, S. Jerez, and Y. Weng. 2019. Spatial and Seasonal Flammability Comparisons of Endemic and Exotic Plants in the Post Oak, Savannah, Blackland Prairie and Piney Woods Ecoregions of Texas. Graduate Research Conference. SFASU. March 28.
- Tiller, M., B. Oswald, A. Frantzen, I. Hung, S. Jerez, and Y. Weng. 2019. Spatial and Seasonal Flammability Comparisons of Endemic and Exotic Plants in the Post Oak, Savannah, Blackland Prairie and Piney Woods Ecoregions of Texas. Presented at the 20<sup>th</sup> Biennial Southern Silvicultural Research Conference. March 12-14 2019, Shreveport, LA.
- Frantzen, A., Tiller, M., Oswald, B., Hung, I., Weng, Y. and Jerez, S. 2018. Spatial and Seasonal Flammability Comparisons of Endemic and Exotic Plants in the Post Oak Savannah, Blackland Prairie, and Piney Woods Ecoregion of Texas. Graduate Research Conference. SFASU. April 23.
- Esike, N. and **S. Jerez**. 2017. Flared and Vented Emissions from Crude Oil Production in Texas. Environmental Challenges and Innovations Conference: Gulf Coast 2017. TAEP. Houston, TX. October 19.
- Anunciado, M. and **S. Jerez**. 2016. Examination of the Effectiveness of Selected Plant Species for the Removal of Atmospheric Ammonia. Bright Ideas Conference. SFASU. May 4.
- Fimibama, L. and **S. Jerez**. 2016. An Exploratory Study on the Effects of Hydraulic Fracturing on Air Quality in the Eagle Ford Shale Region of Texas. Bright Ideas Conference. SFASU. May 4.
- Anunciado, M. and **S. Jerez**. 2016. Examination of the Effectiveness of Selected Plant Species for the Removal of Atmospheric Ammonia. Graduate Research Conference. SFASU. May 4
- Nasser A. and **S. Jerez**. 2015. Assessment of Workers Exposure to Ammonia In Animal facilities. American Industrial Hygiene Conference & Exposition (AIHce). Salt Lake City, UT. May 30-June 4 2015.
- **Jerez, S.B.** 2015. Environmental Matter for Europe: Spotlight on Urban Issues. Europe in the Transatlantic Context Conference. Sugarland, TX. November 19, 2015.
- Nasser A. and **S. Jerez**. 2015. Assessment of Workers Exposure to Ammonia In Animal facilities. Bright Ideas Conference, SFASU, April 29, 2015.
- Winkler, M., E. Greenstein, **S. Jerez**. 2015. Comparison of Pollutant Discharge from Three Parking Lots in Nacogdoches. 29<sup>th</sup> Annual National Conference on Undergraduate Research (NCUR) Eastern Washington University. April 16-18, 2015. Sponsor: Council on Undergraduate Research. Poster.
- Nasser A., S. Sewell, I-K. Hung, and **S. Jerez**. 2014. Mapping Poultry House Airborne Pollutants through Spatial Interpolation. Bright Ideas Conference, SFASU, May 1, 2014.
- Thomas, D. and **S. Jerez**. 2014. Estimating the Dispersion of Pollutants from Poultry Buildings using AERMOD. Bright Ideas Conference, SFASU, May 1, 2014.
- **Jerez, S.B.**, X. Wang, and Y. Zhang. Quantification of Ventilation Effectiveness fro Air Quality Control in Animal Buildings. 2014 ASHRAE Winter Conference. New York City, NY. January 18-22.
- Thomas, D. and **S. Jerez**. 2013. Estimating the Dispersion of Pollutants from Poultry Buildings using AERMOD. TAEP 7<sup>th</sup> Annual Environmental Challenges and Innovations Conference Gulf Coast 2013. Houston, TX, 17 October. Co-author of poster presentation.

- Mukhtar, S., **S. Jerez**, B. Faulkner, and K. Casey. 2012. Use of BioCurtains and EPI System to Control Dust from Poultry Housing. National Poultry Waste Management Symposium. Shreveport, LA, 23-25 October. Co-author of invited presentation.
- **Jerez, S. B.**, S. Mukhtar, W. Faulkner, K.D. Casey, M.S. Borhan, and R.A. Smith. 2011. Evaluation of electrostatic particle ionization and BioCurtain™ Technologies to reduce air pollutants from broiler houses. ASABE Conference Paper no. 1110550. Poster Presentation. ASABE Annual International Meeting, Louisville, KY, 07-10 August.
- **Jerez, S.B.**, Y. Zhang, and X. Wang. 2010. Spatial distribution of particulate matter and ammonia concentrations in a swine building. Poster Presentation. ASABE Annual International Meeting, Pittsburgh, PA, 21 June. Invited Presentation.
- High, E.B. **S. Jerez**, and J. Bray. 2009. Quantification of ammonia and hydrogen sulfide production from poultry litter. Oral Presentation Co-Author. ASABE Annual International Meeting, Reno, NV, 21-24 June. Invited Presentation.
- **Jerez, S.B.**, Y. Zhang, and X. Wang. 2009. Measurement of particle size distribution in a swine building. Oral Presentation. ASABE Annual International Meeting, Reno, NV, 21-24 June. Invited presentation.
- **Jerez, S.B.**, Y. Zhang, and X. Wang. 2008. Spatial distribution measurement and simulation of particulate matter concentration in a tunnel ventilated swine building. Poster Presentation Co-Author. The Eight International Livestock Environment Symposium. Iguassu Falls, Brazil, 31 August – 4 September. Invited Presentation.

### Other Presentations – Mentored Undergraduate Research (29 total; most recent below)

- Cari Mitchell, Reyna Burns, Remigio Casanova, Caroline Moore, Kaylee Zirlott. Air Pollutants around an Animal Feed Processing Facility in Nacogdoches, TX: A Study on their Effect on Local Outdoor Air Quality. Finalist: ATCOFA Undergraduate Research Showcase. December 2022.
- Garrett Hacker, Quinn Whidden, Alayna Wagner, Zach Palmer, Brystal Beyer. Effectiveness of Sansevieria Plants to Purify the VOCs in Air Caused by the Use of Febreze and Diffuser Contaminants. Finalist: ATCOFA Undergraduate Research Showcase. December 2022.
- Siena Stassi. Microplastic in Surface and Sediments of Rural-Urban Streams in East Texas: Distribution, Abundance, and Diversity. SFASU's Undergraduate Research Conference. April 2022.
- Katherine Barker, Brooke Maxfield, Sophie Scott, Mckynna Swinson. The Impact of Vaping on Indoor Air Quality. Finalist: ATCOFA Undergraduate Research Showcase. December 1, 2021. Outstanding Student Poster, SFASU URC April 2022.
- Stephanie Huerta, Valerie Pacheco, Lukia Kalugin, Garrison Layne, Remy Casanova. A Comparative Assessment Between Forests and Urban Lawns. Finalist: ATCOFA Undergraduate Research Showcase. December 1, 2021.

### Conference Participation

#### International

- 2013. International Association of Wildland Fire. International Smoke Symposium, Hyattsville, MD, 21-24 October.
- 2012. A&WMA 105<sup>th</sup> Annual Conference, San Antonio, TX, 19-22 June.
- 2011. ASABE Annual International Meeting, Louisville, KY, 7-10 August.
- 2010. ASABE Annual International Meeting, Pittsburgh, PA, 20-23 June.
- 2009. ASABE Annual International Meeting, Reno, NV, 21-24 June.

#### National

- 2009. Air and Waste Management Association Specialty Conference on “Guideline on Air Quality Models: Next Generation Models”, Raleigh, NC, 28-30 October.



## State

- 2020. TCEQ Emission Inventory Workshop. Austin, TX. January 30.
- 2014. TCEQ Advanced Air Permitting Seminar and Oil and Gas Facilities Workshop, Austin, TX, 15-16 October.
- 2010. Texas Association of Environmental Professionals Environmental Challenges and Innovations Conference 2010, Houston, TX 11-February.
- 2009. Texas Animal Manure Management Issues (TAMMI) Conference, sponsored by Texas AgriLife Extension, Austin, TX, 29-30 September.

## Professional Development Activities

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- 2023. Webinar – Environmental Education Grants. EPA's Office of Environmental Education. October 12.
- 2023. Webinar - Growing Research Access for Nationally Transformative Equity and Diversity (GRANTED) Program Description. NSF. May 24.
- 2023. Webinar - FCAA Section 185 Fee Overview. TCEQ. April 26.
- 2018. Webinar – Ethics for the Environmental Professional. National Association of Environmental Professionals. January 16.
- 2017. Webinar – Introduction to RA, RBCA, and Application of Contaminated Sites. ASTM Training. October 12.
- 2017. Webinar – Qualitative Exposure Assessment (Site Exposure Model) Webinar. ASTM Training. October 19.
- 2017. Webinar – Qualitative Exposure Assessment (Site Exposure Model) Webinar. ASTM Training. October 26.
- 2017. Webinar – Toxicity Assessment & Calculation of Risk (Direct Routes of Exposure) Webinar. ASTM Training. November 2.
- 2017. Webinar – Calculation of Risk based Exposure Point Concentrations (Direct Routes of exposure) Webinar. ASTM Training. November 9.
- 2017. Webinar – Fate and Transport Considerations in RA Webinar. ASTM Training. November 16.
- 2017. Webinar –Groundwater and Surface Water Protection Conceptual Model. ASTM Training. November 30.
- 2017. Webinar –Estimation of Soil, Soil gas, and Groundwater Concentration Protective of Indoor Air. ASTM Training. December 7.
- 2017. Webinar – Estimating Representative Concentrations at Point of Exposure & Point of Demonstration Webinar. ASTM Training. December 13.
- 2017. Webinar – A Case Study: Petroleum Storage Terminal Webinar. ASTM Training. December 14.
- 2016. Faculty Learning Community 11. January – December 2016 (Spring 2016 – Fall 2016).
- 2016. Webinar – Urban Environments: Conservation Practices in Developed Areas. January 29. Sponsor: USDA NRCS East National Technology Support Center. 1 CEU credit
- 2015. EREF Webinar – Improving Landfill Methane Emissions Estimates with a Field-Validated Model: CALMIM. September 15. Environmental Research & Education Foundation.
- 2015. Phase I Environmental Site Assessment Course. Environmental Solutions Association Online Course. February 2015.
- 2010. Continuing Education Program, “Environmental Ethics”, Texas Association of Environmental Professionals, Houston, TX, 11 February.
- 2009. Continuing Education Program, “Introduction to AERMOD”, Air and Waste Management Association, Raleigh, NC, 28-29 October.

## Committees and Service

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### Service to the Profession

- Reviewer of Funding Agency: Canadian Poultry Research Council (CPRC). June – July 2019. Pro bono.
- Reviewer, OpenStax Environmental Science. McMillan Learning. Paid. November 2018.
- External Examiner for promotion from assistant to associate professor, Xufei Yang, Department of Environmental Engineering, Montana Tech of the University of Montana, Butte, MT, November 2018.
- ASABE SE-04 Paper Awards Committee, appointed Chair, January 2017 – 2019
- ASABE SE-04 Paper Awards Committee, appointed Vice Chair, August 2015
- Reviewer of Funding Agency: Discovery Grant Proposal, Natural Sciences and Engineering Research Council of Canada (NSERC), Ottawa, ON, November 17, 2014 – January 9, 2015. Upon request.
- Editorial Board Member, Journal of Agricultural Science, April 2014 to present
- ASABE SE-04 Paper Awards Committee, appointed, August 27, 2013 to present
- Associate Editor for Special “Odor Series” Issue, Structures and Environment (SE) Division, American Society of Agricultural and Biological Engineers (ASABE), appointed, September 16, 2011 to present
- Associate Editor, Structures and Environment (SE) Division, American Society of Agricultural and Biological Engineers (ASABE), elected, 2010 to present
- Reviewer for (1) Transactions of the ASABE, (2) Applied Engineering in Agriculture, (3) Journal of Environmental Quality, (4) Bioresource Technology, (5) Journal of Air and Waste Management Association, (6) Particulate Science and Technology, (7) Journal of Cotton Science, (8) Particle & Particle Systems Characterization, (9) Sustainable Environment Research, (10) Science of the Total Environment – An International Journal for Scientific Research into the Environment and its Relationship with Humankind, (11) Atmospheric Environment
- Book Chapter Reviewer, Environment by Raven, Hassenzahl, & Berg, 8<sup>th</sup> edition, John Wiley & Sons, Inc., July 2011
- Book Reviewer, Environmental Science: Foundations and Applications by Friedland, A., R. Relyea, and D. Courard-Hauri, First Edition, W.H. Freeman and Company, April 2011
- ASABE Technical Committee SE-305, Environment Air Quality, Member, elected, 2010 to present
- ASABE Technical Committee SE-412, Agricultural Byproduct and Animal Mortality Management Systems, Member, elected, 2010 to present
- ASABE Technical Committee SE-302, Environment of Animal Structures, Chair, elected, 2010-2011
- ASABE Technical Committee SE-302, Environment of Animal Structures, Vice-Chair, elected, 2009-2010
- ASABE Technical Committee SE-405, Poultry Housing, Member, elected, 2009 to present
- American Society of Heating, Refrigerating, and Air-Conditioning Engineers Technical Committee 2.2, Voting Member, elected, 2008 to present
- ASABE Technical Committee SE-302, Environment of Animal Structures, Secretary, elected, 2008-2009
- Poster Presentations Judge, ASABE 2009 Annual International Meeting, Reno, NV, 21-24 June.

### University

- Honors Council Committee, 2021-2022, 2022-2023, 2023-2024

- President's Innovation Fund, April 2021
- University Research Council, August 2019 – July 2022
- Teaching Excellence Awards Committee, January 2019 – December 2021
- Undergraduate Research Liaison, Appointed, October 16, 2018 - 2019
- Faculty Development Leave Committee, Appointed, July 2015 – July 2017
- Critical Thinking Rubric Team, Chairperson, Appointed, July 1, 2013 – July 31, 2013
- Core Curriculum Assessment Committee, Member, Appointed, 2009 to May 2015

### **College**

- Alba-Golden ISD Research Presentation, Invited, October 7, 2021
- College Experience Day, October 1, 2021
- College Experience Day, October 1, 2019
- Undergraduate Research Showcase Committee, Chair –May 2019 - present
- Beihua University recruitment visit and research presentation, July 2019
- Kennard High School Recruitment – April 18, 2019
- Oral Presentation Judge, Envirothon, SFASU, April 15, 2019
- Panelist, Environmental Forum 2019, NAEP and Team, SFASU, April 1, 2019
- STEM Day – February 22, 2019
- STEM Day – February 23, 2018
- Environmental Science Faculty Search Committee – August 2017 – May 2018
- College Experience Day, October 10, 2017
- Co-mentor: HSSE-SR Student Challenge. SPE Health, Safety, Security, Environment, and Social Responsibility Conference-North America (HSSR-SR). New Orleans, LA, April 18-20, 2017.
- ATCOFA Dean Search Committee – June 2016 – March 2017
- High School Demo – AP Environmental Science class of Anahuac High School, March 22, 2017-
- College Experience Day, October 4, 2016
- ATCOFA Faculty Council, Member, Appointed, October 2014 - present
- College Experience Day, October 7, 2014
- Assessment Review Committee, Member, Appointed, August 2012 - present
- Search and Screening Committee, Forest Resource Management Faculty Position, Member, Appointed, October 2011 to present
- International Activities and Programs Committee, Member, Appointed, 2011-2012
- Environmental Science Graduate Council, Member, Appointed, 2011-2012
- ATCOFA Awards Committee, Member, Appointed, 2008 to present
- Environmental Science Undergraduate Curriculum Committee, Member, Appointed, 2008 to present
- Co-advisor of National Association of Environmental Professionals, SFASU Chapter, 2009 to present

## **Professional Affiliations and Honorary Societies**

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### **Professional Societies**

- Texas Association of Environmental Professionals
- American Society of Agricultural and Biological Engineers, 2001 to present

- Air and Waste Management Association, 2009-2013
- American Society of Heating, Refrigerating, and Air Conditioning Engineers, 2007-2008

### **Honorary Societies**

- Tau Beta Pi – The Engineering Honorary Society
- Alpha Epsilon – Honor Society for Outstanding Biological and Agricultural Engineers
- Phi Kappa Phi – Honorary Society for All Disciplines

### **Awards and Recognition**

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- 2018 SFASU Foundation Faculty Achievement Award in Teaching, December 8, 2018
- ATCOFA Kenneth Watterston Teaching Excellence Award. March 2016.
- Faculty Mentor of the Year. SFASU. April 2014.
- ASHRAE Grant-In Aid for Graduate Students (\$10,000). Given to 11 students nationwide. 2006
- Karl M. Snyder Teaching Excellence Award. University of Illinois at Urbana-Champaign. 2006
- “Incomplete List of Teachers Ranked as Excellent by Their Students” University of Illinois at Urbana-Champaign. 2006.
- University of Illinois Fellowship - Departmental Scholarship. University of Illinois at Urbana-Champaign. Given to top 5% of graduate students in the department. 2003-04 and 2004-05.

### **For Students Supervised/Advised**

- Marife Anunciado. *Dean’s Research Award: Best Student Paper* – Graduate Research Conference, May 4, 2016. SFASU
- Brianna Clark, Shannon Brown, Rene Barelmas, Emily Lozano, Kayli Baxter. *University Scholar*, Undergraduate Research Conference, SFASU, April 18, 2017.
- Joseph Gerland, Will Titone, Arianna Clark, Brad Michael. *Best Poster*: Undergraduate Research Conference, SFASU, April 18, 2017.
- Jeremy Ayars, Whitney Johnson, Juliet Flores, Mark Nosal, and Laura Tapia. *University Scholar*, Undergraduate Research Conference, SFASU, April 2014.
- Destiny Russell, Joseph Mars, and Jarod Davidson. *University Scholar*: Undergraduate Research Conference, SFASU, April 2013.
- Packard, H. *University Scholar*: Undergraduate Research Conference, SFASU, April 2011.