

Curriculum Vitae

Greta L. Schuster, Ph.D.

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EDUCATION

- Ph.D., Plant Pathology & Microbiology, Texas A&M University, College Station, TX, 1994
DISSERTATION: Cultured peanut (*Arachis hypogaea* L.) and Tobacco (*Nicotiana glauca* L.) Cells Infected with Tomato Spotted Wilt Virus for Virus and Vector Studies.
- M.S., Agronomy, East Texas State University, Commerce, TX, 1991
THESIS: The Use of Fungicides for the Control of Foliar Diseases in Winter Wheat (*Triticum aestivum* L.) in the Northern Texas Blacklands.
- B.S., Animal Science, East Texas State University, Commerce, TX, 1985

PROFESSIONAL EXPERIENCE

2024-present	Professor, Agronomy/Integrated Pest Management and College Recruiter, Dick and Mary Lewis Kleberg College of Agriculture and Natural Resources, Texas A&M University-Kingsville, Kingsville, TX
2017-2024	Chair, Dept. of Agriculture, Agribusiness, and Environmental Science, and Professor, Texas A&M University - Kingsville, Kingsville
2016 -2017	Interim Chair, Dept. of Agriculture, Agribusiness, and Environmental Science, Texas A&M University - Kingsville, Kingsville
2008- 2024	Professor, Agronomy/Integrated Pest Management, Texas A&M University-Kingsville, Kingsville, TX <u>Appt:</u> 75% Teaching; 25% Texas A&M AgriLife Extension - Plant Pathology; Sept. 2013 - Promoted to Professor; Sept. 2012 - Awarded Tenure
1998-2007	Associate Professor, Integrated Pest Management, West Texas A&M University, Canyon, TX <u>Appt:</u> 50% Teaching; 25% Texas A&M AgriLife Extension- Plant Pathology; 25% Research; Aug. 2004 - Tenure and Promotion awarded
1995-1998	AgriLife Extension IPM Agent, Texas, Dimmitt, TX (Castro and Lamb Co.)

ACADEMIC HONORS AND AWARDS

- **Arthur T. Potts Award**, Recognition of outstanding service to the horticultural industry of South Texas. Subtropical and Environments Society, 2025
- **Dean's Extra Mile Award**, College of Agriculture and Natural Resources, TAMUK, 2021.
- **TAMUK Distinguished Teaching Award**, Texas A&M University - Kingsville Alumni, October 14, 2016
- **Chancellor's Academy of Teacher Educators of the A&M System' Award**, Texas A&M University, 2014-2015.
- **Senior Teaching Award**, Dick & Mary Lewis Kleberg College of Agriculture, April, 2012-2013.
- **Advising Award**, Dick & Mary Lewis Kleberg College of Agriculture, April, 2011-2012.
- **Chancellor's Teaching Excellence**, Texas A&M University, 2011.
- **Junior Research Award**, Dick & Mary Lewis Kleberg College of Agriculture, April 2009-2010.
- **Chancellor's Teaching Excellence**, Texas A&M University, 2009.
- **Chancellor's Teaching Excellence**, Texas A&M University, 2008.
- **Outstanding Club Advisor**, West Texas A&M University, 2002-2003.
- **Distinguished Graduate Faculty**, West Texas A&M University, 2001-2002.

GRANTS RECEIVED

TAMU-Kingsville Funded Grants

\$298,220	\$399,131 Total Awarded - Southern SARE. Fostering climate-friendly sustainable farming through integration of biochar and cover crops in Texas and Florida. (PI- Dattamudi, Co-PIs Schuster , Turner) TAMUK - \$298,220; 2025- 2029.
\$750,000	USDA, NRCS. Natural Resource Career Development Program for Student Success. (PI's - Machado, Donato, Dattamudi, Stanko, Schuster). 9/4/2024-12/31/2029.
\$273,619	USDA, HSI, Educating the Future Workforce of Underrepresented Students in International Agriculture. (PI Mark Lokensgard, Matthew Jordon, Co-PI's - Schuster , Donato). 2024-2026.
\$297,264	USDA-Southern SARE, USDA Southern SARE. Fostering climate-friendly sustainable farming through integration of biochar and cover crops in Texas and Florida. USDA-\$399,220. (PI: Sanku Dattamudi, CoPI: Schuster)
\$574,500	USDA, APHIS, PPQ AQI Germplasm. FY 23 Germplasm Quarantine Program (PI- Schuster , Clint McFarland, Ron French. 9/1/2023 - 8/31/2024
\$669,029	USDA, APHIS, PPQ AQI Germplasm. FY 23 Germplasm Quarantine Program (PI- Schuster , Clint McFarland, Ron French. 8/1/2022 - 7/31/2023
\$442,702	USDA, APHIS, PPQ AQI Germplasm. PI- Schuster , Clint McFarland, Ron French. 9/23/2020 - 9/22/2022= \$442,702.00 (includes a No Cost Extension of one year due to COVID-19 and other unpredictable delays)
\$1,000,000	USDA-NIFA HSI, GO START NOW: Getting Occupational Student Training in Agricultural Research Through Novel Workshops Collaborative Program R. Stanko, (PDs), TAMUK CoPDs: S. Nelson, S. Chumbley, G. Schuster , T. Machado, C. Donato, et al. 9/1/21-8/31/25
\$205,375	USDA, APHIS, PPQ Plant Germplasm Quarantine Program TX19. PI- Schuster , Clint McFarland, Ron French. 9/15/19-9/15/20 (no cost extension year) END SPRING 3/14/2021.
\$2,000,000	\$5,000,000 Total Award - NSF-CREST-SWU, Center for Sustainable Water Use (SWU). L. Clapp, B. Turner, S. Nelson, CoPI - G. Schuster . 10/1/19-8/31/23
\$20,000	\$275,000 Total Award: USDA HSI, PROMISE Scholars. Providing Resources and Opportunities for Minorities in STEAM Education. (PI: Nora Gaza, Laredo College; CoPI: Schuster) 2019-2013.
\$244,517	USDA ARS, Feed-through and Spray on Treatments of Insect Growth Regulators for Cattle and Wildlife. (2019-2020 PI - Schuster)
\$147,573	USDA HEC. Enhancing Agriculture Mechanics Education and Curriculum to Higher Education (AgMechEd) (PD- Dr. Chumbley, Turner, Schuster)
\$100,000	USDA NRCS. Natural Resources Career Development Program. (PD - T. Machado, Stanko, Nelson, Schuster). 2018-2019
\$64,000	\$362,706 Total Award -2017 - USDA-AFRI, Minimizing Diseases due to Fungal Pathosystems Program (Program Area Code A5122), TAMUK subcontract (2012-2017- Co P.I.)
\$250,000	\$2,000,000 Total Award - USDA-NIFA HSI Standard Proposal. START NOW: Student Training in Agricultural Research Techniques by Novel Occupational Workshops. S.D. Nelson (PD), D. Ruppert, G. Schuster , R. Stanko, T. Machado (TAMUK \$250,000/yr x 4 yrs), and 3 4-Yr HSIs: (FIU), (UTEP), UPRM). 9/1/16-8/31/20.
\$220,000	\$1,000,000 Total Award - USDA-NIFA HSI Standard Proposal. USDA Education and Research Experience in Unmanned Aircraft Vehicles for Precision Agriculture. J. Fox (PD) TAMU-CC; TAMUK-S.D. Nelson (PD), R. Stanko, G. Schuster , C. Simpson-; R. Gilkerson (PD)-UTRGV; J. Halcomb (PD)-DMC; J. Landivar-Texas A&M AgriLife. 9/1/16-8/31/20.
\$361,000	\$1,000,000 Total Award USDA-NIFA-HSI (UT Pan American Lead Institution) STEP 2 USDA Research Success. South Texas Excellence Program to Research Success. Lead-

	UT Pan American R. Gilkerson (PD), M. Persans, et al. TAMUK subcontract: Stanko (PD), Nelson, Machado, Schuster . \$90,250/yr TAMUK. 9/1/15-8/31/19.
\$440,000	\$2,000,000 Total Award USDA-NIFA-HSI (UT El Paso Lead Institution) Wheels of Change: A Consortium to Develop Champions in Agriculture in the Areas of Sustainable Energy and Natural Resources . Lead-UT El Paso J. Espiritu (PD), H. Taboada, et al. TAMUK subcontract: Nelson (PD), Stanko, Machado, Schuster . \$110K/yr TAMUK. 9/1/15-8/31/19.
\$8,000	Monsanto – Insecticide Corn trials – 2015 – PI Schuster
\$127,313	Meeting Quail Manager Needs: Development of an Easy-to-Use Qualitative Method for the Detection of Aflatoxin and Methods to Control the Fungus <i>Aspergillus flavus</i> . 2013-2014. PI's Henke, Fedyich, Schuster
\$5,000	Monsanto – Insecticide Corn trials - 2014 PI Schuster
\$50,000	TAMUK, Title V/PPOHA Program. 2014. Mini-Grant Equipment. High Performance Liquid Chromatography in Graduate Student Research Experiments. PI: S. Nelson, Co PI's - J.C. Melgar, E. Louzada, M. Setamou, D. Ruppert, G. Schuster , and J. da Graca.
\$362,706	\$5,349,650 Total Award - USDA-AFRI Minimizing Diseases due to Fungal Pathosystems Program (Program Area Code A5122), (<u>2012-2017</u>), PI - Charles Wolchuk - Purdue, Schuster Co P.I.
\$15,000	TAMUK, Title V/PPOHA Program. 2014. Mini-Grant Equipment. John Deere Tractor P.I.: Schuster , G., Co PI's: S. Nelson, D. Rupert, K. McCuiston, and S. Lukefahr.
\$15,000	TAMUK, Title V/PPOHA Program. 2013. Mini Mini-Grant Equipment. Wiley Mill grinder. PI - McCuiston; Schuster -Co P.I.
\$49,650	USDA-VS, 4/15/13-4/14/14, Co P.I.
\$10,000	Cotton Inc., Controlling Volunteer Cotton in Other Crops in the Lower Rio Grande Valley of Texas, 2013, P.I. Schuster
\$ 7,983	Texas Sorghum Producers Board, Agronomic Factors for Forage Sorghum in South Texas. Co PI FY 13
\$ 7,200	TAMUK. QEP Proposal. Graduate Students as Mentors of High School Students. J.C. Melgar (PD), E. Louzada, M. Setamou, G. Schuster , and S.D. Nelson.
\$840,000	\$3,200,000 Total Award. USDA-NIFA HSI Collaborative Grants . USDA-NIFA HSI Collaborative Grants. STEP UP to USDA Career Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success. \$800K/yr x 4yrs (<u>2011-2015</u>), Collaborator
\$150,000	\$600,000 Total Award. USDA-NIFA HSI Collaborative Grants BGREEN: Building Regional Energy and Educational alliances: A Partnership to Integrate Efforts and Collaboration to Shape Tomorrow's Hispanic Sustainable Energy Leaders. <u>2011-2015</u> , Co P.I. Schuster
\$50,367	USDA-VS, 12/15/11 – 12/14/12, Co P.I.
\$7,728	Texas Sorghum Producers Board, Agronomic Factors for Forage Sorghum in South Texas, 2011-2012, Co P.I.
\$250,000	USDA-CSREES Agriculture and Food Research Initiative (AFRI) Integration Of Ecologically-Based Approaches To Re-Eradicate Cattle Fever Ticks From The U.S. 9/09-08/12. P.I. Schuster
\$9,950	TAMUK University Research, Growth and carcass traits performance of rabbit fryers fed sweet potato forage. 2010-11, P.I Schuster
\$5,000	Texas Sorghum Producers Board, 2010-11, Co P.I. Schuster
\$5,000	Texas Sorghum Producers Board, 2009-10, Co P.I. Schuster
\$63,264	Texas Dept. of Agriculture, Potato Cyst Nematode Survey Plan, 2008-09, P.I. Schuster
\$5,485	PBI Gordon Corporation, Horn fly control insecticide efficacy, 2008, P.I. Schuster

AgriLife Extension Funded Grants

\$63,800	2013 Farm Bill – Texas Palm Phytoplasma Survey, 2013-2014 P.I.'s Ong, Schuster (extended to August 2015)
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\$60,000	\$2,822,422 Total Award , USDA-SCRI #2009-51181-20178. Development of an Integrated Research and Management Program for Zebra Chip of Potato. FY <u>2012-2014</u> , PI's Charlie Rush, Co-PI's Henne, Schuster , French, et. al.,.
\$80,000	\$6.9 Total Award . USDA National Institute of Food and Agriculture (NIFA) Specialty Crops Research Initiative Development of an Integrated Research and Management Program for Zebra Chip of Potato, Project 2008-04840 – (SCRI), <u>2009-2012</u> PI -Charlie Rush, Collaborator – Schuster ,
\$80,000	Texas AgriLife Research Zebra Chip Disease Program, 10-11, Co P.I.
\$9,900	Texas Citrus Producers Board, Developing an Education & Outreach Program for Increase Awareness of Citrus Diseases in Texas. 09-10, Co P.I.
\$29,000	Texas Dept of Agriculture, An Integrated Approach Towards Understanding and Controlling Zebra Chip Disease on Potatoes, 09-10, P.I.
\$7,000	Texas Dept of Agriculture, Understanding of the Role of the Potato Psyllid in Zebra Chip in South Texas, 09, Co P.I.
\$9,080	Frito Lay, The Role of Potato Psyllid on Zebra Chip 08, Co P.I.

PUBLICATIONS (Chronological Order) * represents graduate student

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- *Kommineni, Varshith, Ammar B. Bhandari, Greta **Schuster**, and Shad Nelson. 2024. Cotton Response to Potassium Application in South Texas Dryland. *Agronomy* 2024, 14(10), 2422; <https://doi.org/10.3390/agronomy14102422>.
- *Mays D.T., Medrano E.G, Setamou M., and **Schuster** G.L. 2022. *Bacillus thuringiensis* Derived Vegetative Insecticidal Protein Vip3Aa20 as a Potential Aflatoxin Mitigation Tool in Maize (*Zea mays*). *Research Journal of Plant Pathology*, Vol. 5, No. 2:5 <https://www.imedpub.com/research-journal-of-plant-pathology/>.
- *Kathi, Shivani Reddy, Catherine Simpson, Alinna Umphres-Lopez, and Greta **Schuster**. 2021. Cornstarch-based, biodegradable superabsorbent polymer to improve water retention, reduce nitrate leaching, and result in improved tomato growth and development. *HortScience* 56(12):1-8.
- Medrano E. G., **Schuster** G L., Kotalia S, 2021. Response of Commercial Cotton Varieties to *Xanthomonas citri* pv. *Malvacearum* at Early Developmental Stages in South Texas. *Res J Plant Pathol.*, Vol.4 No. 4:01.
- *Currie, Chase, David G. Hewitt; J. Alfonso Ortega-S.; Greta L. **Schuster**; Tyler A. Campbell; Kim H. Lohmeyer; David B. Wester; Adalberto Pérez de León. 2020. Efficacy of white-tailed deer (*Odocoileus virginianus*) treatment for cattle fever ticks in Southern Texas, USA. *Journal of Wildlife Diseases*, 56(3):588-596.
- *da Silva, Julio C B, N Andy Cole, Christian H Ponce, Doug R Smith, L Wayne Greene, Greta **Schuster**, Mike S Brown. 2019. Effects of supplemental fat concentration on feeding logistics, animal performance, and nutrient losses of heifers fed finishing diets based on steam-flaked corn and sorghum-based distiller's grains. *Journal of Animal Science*, Volume 97, Issue 6, June 2019, Pages 2583–2597.
- *Runge, Ty A., Anthony D Falk, Keith A Pawelek, Forrest S Smith and Greta L **Schuster**. 2018. Herbicide Efficacy on the Control of Silverleaf Nightshade. Texas A&M University, Tx USA.
- McCuiston, K., J. L. Foster, G. **Schuster**, D. Wester, Z. Lopez, A. M. Umphres, and A. Coronado. 2017. Forage mass, nutritive value, and in situ degradation of sorghum silage treated with fibrolytic enzymes. *Crop, Forage & Turfgrass Management* 3:2016-12-0077. doi:10.2134/cfm2016.12.0077
- *Crouch, Carter; Ortega-Santos, J. Alfonso; Wester, David B.; Hernández, Fidel; Brennan, Leonard A.; and **Schuster**, Greta L. 2017. Vegetation and Arthropod Responses to Brush Reduction by Grubbing

- Wang, H. H., P.D. Teel, W. E. Grant. G. L. **Schuster**, and A. A. Perez de Leon. 2016. Simulated interactions of white-tailed deer (*Odocoileus virginianus*), climate variation and habitat heterogeneity on southern cattle tick (*Rhipicephalus* (Boophilus) *microphus*) eradication methods in south Texas, USA. *Ecological Modelling*, 342:82-96.
- Schuster**, G., E. G. Medrano, and K. Field- Huey. 2016. Cotton (*Gossypium hirsutum* L.) boll rot and associated microorganisms in South Texas Fields. *Agricultural Sciences*, 7:732-746,
http://file.scirp.org/pdf/AS_2016102714002081.pdf
- Goolsby, J.A., T. Mays, G. **Schuster**, J. Kashefi, L. Smith, M. Flores-Cruz, D. Amalin, and A. Perez deLeon. 2016. Rationale for classical biological control of cattle fever ticks and proposed methods for field collection of natural enemies. *Subtropical Agriculture and Environments*, 66:7-15.
- *Vemula, Satya R., P. Porter, G. L. **Schuster**, and B. E. Lewis. 2016. Susceptibility of *Helicoverpa zea* to commercial insecticides used in green bean production on Texas High Plains. *The Texas Journal of Agriculture and Natural Resource* 25:1-12.
- *Simpson, C.R., S.D. Nelson, J.C. Melgar, J. Jifon, and G. **Schuster**. 2015. Effects of salinity on physiological parameters of grafted and ungrafted citrus trees. *Scientia Horticulturae* 197:483-489.
- Simpson, C.R., S. King, S.D. Nelson, J. Jifon, G. **Schuster**, and A. Volder. 2015. Salinity evaluation of watermelon (*Citrullus lanatus*) grafted with different rootstocks. *Subtropical Agriculture and Environment*, 66:1-6.
- Litt, Andrea R., E.E., Cord, T.E. Fulbright, and G.L. **Schuster**. 2014. Effects of Invasive Plants on Arthropod. *Conservation Biology*, Volume 28, No. 6, 1532-1549.
- *Simpson, C.R., S.D. Nelson, J.C. Melgar, S. King, J. Jifon, G. **Schuster**, G. and A. Volder. 2014. Growth response of grafted and non-grafted citrus trees to saline irrigation. *Scientia Horticulturae* 169:199-205.
- Schuster**, G. L., K. E. Moulton, J. Donaldson, M. Castelaw, J. O. Buntyn, S. M. Falkenberg, S. Willard, P. Ryan, H. A. Duoss, D. T. Dawson, T. Callaway, J. Carroll, and T. B. Schmidt. 2013. Use of biophotonic E. coli-Xen14 to determine time of contamination in the life cycle of the house fly, *Musca domestica* (Diptera: Muscidae). *Foodborne Pathogens and Disease*, Vol. 10(5): 442-447.
- Fisher, Amanda C., G. **Schuster**, W. J. Cobb, A. J. James, S. Cooper, A. Pérez de León, and P. J. Holman. 2013. Molecular characterization of *Trypanosoma* spp. infecting cattle (*Bos taurus*), white-tailed deer (*Odocoileus virginianus*) and elk (*Cervus elaphus canadensis*) and in the United States. *Veterinary Parasitological*, 197: 9-42.
- Schuster**, Greta, S., Lukefahr, K. McCuiston, and R. Hanagriff. 2012. Measuring the Economic Potential of Utilizing Sweet Potato Production in Small Animal Forage and Crop Production System: A Systems Approach. *The Journal of American Academy of Business*, Cambridge. 17(2): 212-222.
- *Vemula, Satya, P. Porter, G. L. **Schuster**, and B. E. Lewis. 2012. Susceptibility of *Helicoverpa zea* to commercial insecticides in green bean production on the Texas High Plains. *The Texas Journal of Agriculture and Natural Resources*, 25:1-12.
- Wheeler, T. A. , V. Choppakatla, D. O. Porter, G. L. **Schuster**, B. G. Mullinix Jr., and A. M. Schubert. 2012. Irrigation Rate and Fungicide Effects on Peanut Kernel Damage, Yield, and Net Return. *Peanut Science*: July 2012, Vol. 39, No. 2, pp. 88-94.

- Munyanzeza, Joseph E., J.L. Buchman, V.G. Sengoda, J.A. Goolsby, A.P. Ochoa, J.Trevino, and G. **Schuster**. 2012. Impact of potato planting timing on potato zebra chip disease incidence in the Lower RioGrande Valley of Texas. *Southwestern Entomologist*, 37(3): 253-262.
- Pérez de León, A. A., P. D.Teel, A. N. Auclair, M. T. Messenger, F. D. Guerrero, G. **Schuster**, and R. J. Miller. 2012. Integrated strategy for sustainable cattle fever tick eradication in USA is required to mitigate the impact of global change. *Frontiers in Physiology*, June, Vol. 3, Article 9, pg. 1- 17, doi:10.3389/fphys.2012.00195.
- *Flores, R., S.D. Lukefahr, G. **Schuster**, K.C. McCuiston, and T. Verma. 2011. Developing a low-cost, sustainable feeding system using sweet potato forage for growing rabbits. *J. Anim. Sci. J. Anim. Sci.* 89 (E-Suppl. 2):13.
- Rhoades, M.B., D.B. Parker, N.A. Cole, R.W. Todd, B.W. Auverman, E.A. Caraway, D. Topliff, G. L. **Schuster**. 2010. Continuous ammonia emission measurements from a commercial beef feedyard in Texas. *Transactions of the ASABE* 53(6):1823-1831.
- French-Monar , R. R. D., A. F. Patton III, and J. M. Douglas, J. A. Abad, G. **Schuster**, R. W. Wallace, and T. A. Wheeler. 2010. First Report of “*Candidatus Liberibacter solanacearum*” on Field Tomatoes in the United States. *Plant Disease*, April, Vol. 94, Number 4, Pg. 451.
- *Choppakatla,V., T.A. Wheeler, G.L. **Schuster**, C. Robinson, and D.O. Porter. 2008. Relationship of Soil Moisture with the Incidence of Pod Rot in Peanut in West Texas *Peanut Science* 35:116-122.
- Wheeler, T. A., U.S. Sagaram, G.L. **Schuster**, and J.R. Gannaway. 2007. Identification of factors that influence screening for bacterial blight resistance. *Journal of Cotton Science* 11:91-97.
- Parker, D.B., M.B. Rhodes, G.L. **Schuster**, J.A. Koziel, and Z.L. Perchbacher-Buser. 2005. Odor characterization at open-lot beef cattle feedyards using triangular forced-choice olfactometry. *Transactions of the ASAE*, Vol. 48(4):1527-1535.
- Porter, P., N Troxclair, G **Schuster**, DO Porter, G Cronholm, E Bynum, 2005. Texas corn production: emphasizing pest management and irrigation. Texas Cooperative Extension, The Texas A&M University System, B-6177, 71.
- *Britten, D.C., G.L. **Schuster**, G.J. Michels, Jr., and D.A. Owings. 2003. Using cold-stored or overwintering *Aceria malherbae* Nuzzaci (Acarina:Eriophyiidae), a gall-forming Eriophyiid Mite, for infestation of field bindweed. *Southwestern Entomologist* 28(4):273-280.
- Patrick Porter, Greta **Schuster**, Pat Morrison, Noel Toxclair, Greg Cronholm, Carl Patrick, Roy Parker. 2000. BT Corn Technology in Texas: A Practical View. Texas Agricultural Extension Service. <https://hdl.handle.net/1969.1/160470>.
- Wheeler, Terry A., Brant Baugh, Harold Kaufman, Greta **Schuster**, Kerry Siders. 2000. Variability in time and space of *Meloidogyne incognita* fall population density in cotton fields. *Journal of Nematology*, 32(3):258-264.

REFEREED PROCEEDING/CONFERENCE PAPER/ABSTRACTS

- Sanku Dattamudi, Saoli Chanda, Susnigdha Sengupta, Mahima Gumadala, Belinda Arnero and Greta **Schuster**. 2026. Effects of cover crops and biochar on vegetable production and soil carbon dynamics in Texas. 2026, Portland, OR, USA

- *Mahima Gumadala, Saoli Chanda, Shad D. Nelson, Greta **Schuster**, Anthony D Falk, and Sanku Dattamudi. 2026. Role of secondary metabolites to alleviate salinity stress in seed-primed tomato. 2026, Portland, OR, USA
- *Mahima Gumadala, Saoli Chanda, Shad D. Nelson, Greta **Schuster**, Anthony D Falk, and Sanku Dattamudi. 2026. Evaluation of seed priming techniques to improve salinity tolerance and water uptake in tomato under south Texas conditions. 2026, Portland, OR, US.
- Dattamudi, Sanku, Saoli Chandra, Francisco Trevino, Erik Zamora, and Greta **Schuster**. 2025. Effects of Biochar and Nutrient Sources on Vegetable Production and Soil Health Improvement. CANVAS Agronomy meetings, November 9-12, Salt Lake City, Utah.
<https://scisoc.confex.com/scisoc/2025am/meetingapp.cgi/Paper/168427>.
- *Zamora, Erik, Sanku Datta Mudi, Jamie L. Foster Malone, Debankur Sanyal, Greta **Schuster**, Joshua McGinty, Saoli Chanda, and Shad D. Nelson. 2025. Soil Health and Sustainability Responses to Cover Crop Mixtures and Tillage Practices in a Long-Term Research Field. ASA, CSSA, SSSA International Annual Meeting. <https://scisoc.confex.com/scisoc/2025am/meetingapp.cgi/Paper/166845>.
- *Salinas, Natalie, Greta **Schuster**, Anthony L Falk, and Natasha Mast. 2025. Exploring Nutrient-Rich Feed Sources By Comparing Native and Non-Native Forages for South Texas Beef Cattle. CANVAS Agronomy meetings, November 9-12, Salt Lake City, Utah.
<https://scisoc.confex.com/scisoc/2025am/meetingapp.cgi/Paper/170753>.
- *Zaragoza, Amberly, Sanku Dattamudi, David Parker, Benjamin Turner, Shad Nelson, and Greta **Schuster**. 2024. Soil and Water Conservation Under Cattle Paunch Application to Improve Soil Physiochemical Properties in South Texas. Tri Society Poster Presentation, Irving, Tx.
- Gargurevich, M Galvez, X Hu, Y Yang, ME Marks, GL **Schuster**, JA Foster, C Devorshak, RD French-Monar. 2024. Detection of potato rugose stunting virus using high-throughput sequencing and a multiplex two-step RT-PCR assay for testing imported potato germplasm. PHYTOPATHOLOGY Volume 114, Issue 11, Pages 85.
- *Zamora, Erik, Sanku Datta Mudi, Jamie L Foster Malone, Debankur Sanyal, Greta **Schuster**, Joshua McGinty, Satya Venkata Gopinareesh Vurranki. 2024. Effect of Cover Crop Mixtures and Tillage Practices on Soil Health and Agricultural Sustainability in a Long Term Research Field. (Abstract) ASA, CSSA, SSSA International Annual Meeting, San Antonio, TX.
<https://scisoc.confex.com/scisoc/2024am/meetingapp.cgi/Paper/157940>
- *Zaragoza, Amberly, Sanku Datta Mudi, David B Parker, Benjamin L Turner, Shad D Nelson, Greta L **Schuster**. 2024. Soil and Water Conservation Under Cattle Paunch Application to Improve Soil Physicochemical Properties in South Texas. (Abstract) ASA, CSSA, SSSA International Annual Meeting, San Antonio, TX. <https://scisoc.confex.com/scisoc/2024am/meetingapp.cgi/Paper/160195>.
- Ancona, V. Garza, S., Yang, C., Calderon, M., **Schuster**, G. 2023. Plant Pathogen Threats in Irrigation Water from the Rio Grande River. Subtropical Agriculture and Environments Society Annual meeting. South Padre Island, TX. February 9, 2023.
- *Zaragoza, A. L., Datta Mudi, S., Parker, D. B., Turner, B. L., Nelson, S. D., & **Schuster**, G. L. 2023. Evaluation of Soil Improvement Potential Via Application on Cattle Paunch in South Texas Dryland [Abstract]. ASA, CSSA, SSSA International Annual Meeting, St. Louis, MO.
<https://scisoc.confex.com/scisoc/2023am/meetingapp.cgi/Paper/151008>.
- *Garza, S., GL **Schuster**, V Ancona. 2022. Monitoring plant pathogens in water from the Rio Grande River used for irrigation. PHYTOPATHOLOGY, Vol. 112, Issue 11 Pgs. 38-39.

- *Manda, H., Bhandari, M., Abugho, S. B., McGinty, J., **Schuster**, G., Landivar, J., Palla, S. P., Landivar, J. L., & Gaona, F. 2022. Assess the Interaction of Corn Hybrid Maturity, Planting Date, and Planting Population [Abstract]. ASA, CSSA, SSSA International Annual Meeting, Baltimore, MD.
<https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/146369>.
- *Kathi, Shivani Reddy, Catherine Simpson, Alinna Umphres-Lopez, and Greta **Schuster**. 2020. Impacts of Different Rates of Superabsorbent Polymer (SAP) on Leachate, Nitrogen, and Growth of Tomatoes. 2020 ASHS Virtual Conference, Thursday, August 13. Abstract and Oral Presentation
<https://ashs.confex.com/ashs/2020/meetingapp.cgi/Paper/32202>
- *Garcia, A., J Foster, G **Schuster**, A Umphres, J McGinty. 2019. Weed Management Systems in Imidazolinone Tolerant Sorghum (*Sorghum bicolor*) in South Texas. (Abstract). ASA, CSSA and SSSA International Annual Meetings (2019), San Antonio, TX.
- Nelson, Shad D., Scott Cardenas, Jonah Trevino, Greta **Schuster**, David Sotomayor, Krishnaswamy Jayachandran, Jose Espiritu. 2019. Utilizing Multi-Institutional Soils Educational Workshops and Soil Judging As a Means Increasing Diversity in Soil Sciences. (Abstract). ASA, CSSA and SSSA International Annual Meetings (2019), San Antonio, TX.
<https://scisoc.confex.com/scisoc/2019am/meetingapp.cgi/Paper/122411>.
- R Guyer, MA Newman, H Kelly, TW Allen, GL Sciumbato, T Wilkerson, JD Barham, AR Hope, W Barnett, AB Beach, ARAR Keiser, MB Bayles, LM Verhalen, J Caceres, GW Lawrence, PD Colyer, T Kelley, R Thacker, RC Kemerait, KS Lawrence, HL Mehl, PM Phipps, VA Suffolk, GB Padgett, P Price, LA Winnsboro, CS Rothrock, SA Winters, GL **Schuster**. 2019. A HISTORICAL REVIEW OF THE NATIONAL COTTONSEED TREATMENT PROGRAM: 1995-2017. 2019 Cotton Conference
- *Mays, Dennis, Greta L **Schuster**, Mamoudou Setamou, Shad Nelson. 2017. Interaction between Bt and non-Bt corn hybrids and Afla-Guard to reduce aflatoxin contamination. (588-P) 2017 APS Annual Meeting, San Antonio, Tx., August 5-9
- *Crouch, Carter; Ortega-Santos, J. Alfonso; Wester, David B.; Hernández, Fidel; Brennan, Leonard A.; and **Schuster**, Greta L. 2017. Vegetation and Arthropod Responses to Brush Reduction by Grubbing and Stacking. National Quail Symposium Proceedings: 8:96-106.
- Schuster**, G., A. Ortiz, A. Lopez, and B. Bextine. 2013. Central and western potato psyllid biotype variation: Field trials and genomic observations. In: (Eds: F. Workneh, A. Rashed, and C.M. Rush) Proceedings of the 13th Annual 2012 Zebra Chip Reporting Session, October 31 - November 2, 2013, San Antonio, Tx.
- Woodward, Jason, Greta L. **Schuster**, and Lawrence E. Datnoff. 2018. The First Line of Defense Against Plant Disease in the Developing World: Mineral Nutrition. (Synopsis) International Congress of Plant Pathology (ICPP) 2018: Plant Health in A Global Economy, Boston, July 29-August 3, 2028, APSNET.
- **Lewis, Amanda, Luis Cisneros-Zevallos, Shad D Nelson, Greta **Schuster**, Catherine Simpson. 2018. Infrared Thermography Applications in Stress Response. American Society for Horticultural Science 2018 Annual Meeting, Washington, DC, July 30-August 3.
- Schuster**, G.L., D. Mays, M. Setamou, S. Nelson. 2017. Influence of Bt maize (*Zea mays* (L.)) trait packages on aflatoxin contamination in South Texas maize production. 2017 APS Annual Meeting, San Antonio, Tx. PHYTOPATHOLOGY, Volume 106, Issue 12, Pg. 91
- Schuster**, G., T. Mays, M. Setamou, P. Porter, S. Nelson. 2016. Reducing Mycotoxin Levels in Corn via Lepidopteran Insect Control and Application of Atoxigenic Fungi.

- Ong, K. and G. **Schuster**. 2013. Perspective of palm phytoplasma detection from a NPDN member lab in Texas. *PHYTOPATHOLOGY*, Volume 103, Issue 6, Pg. 177.
- Bextine, B., SE Halbert, G **Schuster**. 2013. Molecular characterization of lethal yellows and other phytoplasmas. *PHYTOPATHOLOGY*, Volume 103, Issue 6, Pg. 177.
- Schuster**, G., J. Trevino, A. Arp, and B. Bextine. 2012. Effects of Planting Dates on ZC Incidence on Four Varieties in Pearsall, TX. In: (Eds: F. Workneh, A. Rashed, and C.M. Rush) Proceedings of the 12th Annual 2011 Zebra Chip Reporting Session, October 31 – November 2, 2012, San Antonio, Tx. Pg. 145-147.
- *Garza, M.T., S.D. Lukefahr, G.L. **Schuster**, and K.C. McCuiston. 2012. Developing sustainable diets for rabbits: Effect of sweet potato forage on growth and feeding traits. Proc. 10th World Rabbit Congress, September 3-6, 2012. Sharm El-Sheikh, Egypt. Pg. 781-785.
- *Ochoa, A., G. **Schuster**, B. Bextine, S. Nelson, J. Munyaneza. 2011. Using Biotyping to Establish Temporal and Spatial Relationship between Potato Psyllid, *Bactericera cockerelli*, Populations Colonizing Potatoes in Texas. In: (Eds: F. Workneh, A. Rashed, and C.M. Rush) Proceedings of the 11th Annual SCRI Zebra Chip Reporting Session, November 6-9, San Antonio, TX Pg., 92-96.
- *Trevino, J., G. **Schuster** B. Bextine, S. Nelson, A. Ochoa, and J. Munyaneza. 2011. Effects of Potato Planting Timing in Texas on Zebra Chip Incidence and Liberbacter Infection Rate in Potato Psyllids. In: (Eds: F. Workneh, A. Rashed, and C.M. Rush) Proceedings of the 11th Annual SCRI Zebra Chip Reporting Session, November 6-9, San Antonio, TX, Pg. 127-130.
- *Cord, Erin E., A. R. Litt, T. E. Fulbright, and G. L. **Schuster**. 2011. Changes in abundance and diversity in an arthropod community with invasive grasses. 96th ESA Annual Meeting, August 7-12, Austin, TX.
- Lukefahr, S.D., G. **Schuster**, K.C. McCuiston, T. Verma, and R. Flores. 2010. Self-sustaining rabbit projects: A pilot study involving feeding of sweet potato forage. Proc. 4th Rabbit Congress of the Americas, September 21-24, 2010. Cordoba, Argentina.
- Munyaneza, J. E., J. L. Buchman, J. A. Goolsby, A. P. Ochoa, and G. **Schuster**. 2010. Impact of Potato Planting Timing on Zebra Chip Incidence in Texas. Proceedings of the 10th Annual 2010 Zebra Chip Reporting Session, November 7-10, Pg. 106-109.
- *Ochoa, A. P., J. Richmond- Trevino, J. Lozano, and G. **Schuster**. 2010. Assessment of Active Psyllid Populations in Correlation with Zebra Chip Severity and Incidence. Proceedings of the 10th Annual 2010 Zebra Chip Reporting Session, November 7-10, Dallas, TX, Pg. 196-199.
- *Castellaw, M. W., G. **Schuster**, D. T. Dawson, K. E. Moulton, E. L. Schenck, P. Ryan, S. Willard and T. B. Schmidt. 2009. Use of Biophotonics as a Real Time Model to Determine the Role of Filth Flies in the cross contamination of cattle with E. coli O157:H7. Merck-Merial- NIH National Scholar Symposium, NCSU, North Carolina.
- Rothrock, C.S., J.D. Barham, A.B Beach, M.B. Bayles, J. Caceres, P.D. Colyer, R.C. Kermerait, K.S. Lawrence, G.B. Padgett, P.M. Phipps, G.L. **Schuster**, G.L. Sciumbato, R. Thacker, L.M. Verhalen, J.E. Woodyard. 2008. Report of the cottonseed treatment committee for 2007. 2008 Beltwide Cotton Conference, Nashville, TN, Jan. 8-11, Pg. 298- 305.
- Rhoades, M.B., B.W. Auvermann, N.A. Cole, R.W. Todd, D.B. Parker, E.A. Caraway, G. **Schuster** and J. Spears. 2008. Ammonia concentration and modeled emission rates from a beef cattle feedyard ASABE Paper No.084445. In Proceedings 2008 American Society of Agricultural and Biological Engineers, Providence, Rhode Island.

- Schuster, G. L., S. J. Loneragan, L. M. Chichester, D. J. Kunze, and G. H. Loneragan.** 2006. Flies as potential vectors of resistance determinants in feedlots. International Symposium on Veterinary Epidemiology and Economics (ISVEE) Conference, Cairns, Australia, August 6-11, 2006, Pg. 453.
- Schuster, G., K. McDonald, and S. Presley.** 2006. Impact of coat color, gender, and weather on the attack rate of mosquito populations on horses in the Texas Panhandle. International Symposium on Veterinary Epidemiology and Economics (ISVEE) Conference, Cairns, Australia, August 6-11, 2006, Pg. 439.
- Wheeler, T. A. and G.L. Schuster.** 2006. Cultivar susceptibility to Verticillium wilt on the High Plains of Texas. NCC Paper #3887, 2006 Beltwide Cotton Conference, Jan. 3-6, 2006, San Antonio, TX, Pg 85 - 92.
- Wheeler, T.A. and G.L. Schuster.** 2005. New fungicides for use as seed treatments on cotton. 2005 Beltwide Cotton Conference, New Orleans, LA, Jan. 4-7, Pg 240-244.
- *K.S. McDonald, G.L. Schuster, S. M. Presley, L.A. Baker and J.L. Pipkin** 2005. Inter Host Preference of Mosquitoes Attacking Horses in the Panhandle of Texas. Nineteenth Symposium Proceedings, Equine Science Society. May, Tucson, AZ, Pg. 51-56.
- Parker, D.B., M.B. Rhodes, G.L. Schuster, J.A. Koziel, and Z.L. Perchbacher-Buser.** 2005. Odor characterization at open-lot beef cattle feedyards using triangular forced-choice olfactometry. Transactions of the ASAE, Vol. 48(4):1527-1535.
- Fuchs, T., G. Schuster, and S. Armstrong.** 2003. Texas IPM Internship Program. Fourth National Integrated Pest Management Symposium/ Workshop, April 8-10, Indianapolis, Indiana.
- *Sagram, Uma, T. Wheeler, G. Schuster, and R. A. Thomason.** 2003. Performance of commercial cotton cultivars against bacterial blight pathogen in the Texas High Plains. 2003 Beltwide Cotton Conference, Nashville, TN, January 6-10, Pg. 257-260.
- *Bynum, J., G. Schuster, and T. Wheeler.** 2003. Cotton Seedling Disease Survey for the Texas High Plains. 2003 Beltwide Cotton Conference, Nashville, TN, January 6-10, Pg. 226-229.
- *Talley, J.L., G.L. Schuster, D.B. Parker and B. Clymer.** 2002. Monitoring Population Trends and House Flies and Stable Flies (Diptera:Muscidae) on Texas High Plains Feedlots. ASAE Paper No. 024249. Presented at the 2002 ASAE International Meeting, July 28 -31, Chicago, Illinois.
- *Jarrell, J., R. Bowman, J. Leser, M. Kelly, G. Schuster, and R. Thomason.** 2002. Growth Comparison of Transgenic and Conventional Cotton Cultivars Using COTMAN. 2002 Beltwide Cotton Conference, Atlanta, GA - January 8-12.
- *Burgess, Mandy G., CM Rush, G Piccinini, and G Schuster.** 2002. Relationship between charcoal rot, the stay-green trait, and irrigation in grain sorghum. Phytopathology, 92, S10.
- Doederlein, T., B. Baugh, G. Cronholm, C. Crumley, R.Graves, P. Kidd, M. Logan, G. Schuster and K. Siders.** 1998. Evaluation of boll weevil overwintering on the Texas High Plains through habitat sampling. In Proc. Beltwide Cotton Conf. P. Dugger and D.A. Richter (eds). National Cotton Council, Memphis, TN. pp. 1016-1919.

BOOK/CHAPTER CONTRIBUTION

Aflatoxins and Wildlife. Exposure, Problems, Detection and Control Methods. Scott E. Henke, Ph.D. and Alan Fedynich (Editors)

- **Chapter 5.** Aflatoxin Production within Common Storage Practices of Grain (Brent C. Newman, Scott E. Henke, David B. Wester, Alan M. Fedynich, Greta L. **Schuster** and James Cathey, Department of Agricultural and Environmental Sciences, Tennessee State University, Nashville, TN, US, and others)
- **Chapter 14.** Feasibility of Novice People Testing Their Wildlife Feed for Aflatoxin (Scott E. Henke, Brent C. Newman, Greta L. **Schuster** and James Cathey, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX, US, and others)
- **Chapter 15.** *Aspergillus flavus* Control: The Need to Consider Spores (Jacobo Solis, Greta L. **Schuster**, Scott E. Henke and Alan M. Fedynich, Department of Agriculture, Agribusiness, and Environmental Sciences, Texas A&M University-Kingsville, Kingsville, TX, US, and others).
- **Chapter 16.** Feeding Corn to Wildlife— The Unintended Result: Collateral Aflatoxin Poisoning and What a Person Can Do (Scott E. Henke, Alan M. Fedynich, Carin Kistler-Williams, Deana Moore and Greta L. **Schuster**, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX, US, and others)

Anciso, J. and A. Gregory. 2010. **Texas GAPs and GHPs Food Safety Training Curriculum**, Texas AgrLife Extension, 11/10.

TEACHING EXPERIENCE

Texas A&M- Kingsville Courses Taught

General Plant Science & Lab-PLSS 1407: Fundamentals of growth, development, and cultivation of plants.

Integrated Pest Management - PLSS 4312: An interdisciplinary concentration of study in Entomology, Plant Pathology and Weed Science

Introduction to Plant Pathology-PLSS 4328: Basic understanding of plant pathology

Introduction to Entomology- PLSS 3318: An introduction to insect biology, with a guide to basic insect taxonomy and a survey of the insect orders.

Weed Control-PLSS 3334: Growth, economic importance, distribution, and control methods of weeds.

Fruit and Vegetable Production & Lab-PLSS 3344: Study of production principles for various crops

Field and Forage Crop Production-PLSS 3325; Production practices; environmental considerations in the production of field crops and forage crops

Crop Physiology-PLSS 3381: Function of plant organs, cell growth, and environmental influences.

Agriculture and Human Sciences as Professions AGRI?UNIV 1201: Designed to help the student define the role of Agriculture and Human Sciences in society.

GRADUATE STUDENTS

Chair Master of Science Thesis/Research Project Graduates at TAMUK

- **Adrianna Ochoa.** December 2011. Research Project: Assessment of Active Psyllid Populations in Correlation with Zebra Chip Severity and Incidence. **Graduated**
- **Lorenzo Segura.** December 2011. Research Project: Effect of Storage Methods on Stability of Ivermectin in Treated Corn. **Graduated**
- **Alinna Lopez.** May 2013. Thesis: Agronomic Factors for Forage Sorghum in South Texas. **Graduated**
- **Jennifer Trevino.** May 2013. Research Project: Assessment of Active Psyllid Populations in Commercial Potato Fields in South Texas. **Graduated**

- **Kendall Field**. May 2013. Thesis: Isolation of Cottonseed-Rotting Organisms from Stink Bug and Plant Bugs from South Texas. **Graduated**
- **Jacob Pekar**. May 2014. Thesis: Controlling Volunteer Cotton in Other Crops in the Lower Rio Grande Valley of Texas. **Graduated**
- **Jorge Lozano**. Dec. 2015. Research Project: Lethal Yellowing and Date Palm Lethal Decline in South Texas. **Graduated**
- **Niki Kaiser**. August 2015. Research Project: Effects of Microclimate Changes in Different Vegetation Types on Cattle Fever Tick Larval Survival. **Graduated**
- **Tyler Mays**. Dec. 2015. Thesis: Mycotoxin Management in Maize (*Zea mays* (L.)) Damaged by Lepidopteran Insects Pest. **Graduated**
- **Erika Ramos**. Dec. 2019. Thesis: Susceptibility of commercial cotton *Gossypium hirsutum* to bacterial blight *Xanthomonas campestris* pv. *malvacearum* (XCM) **Graduated**
- **Ty Runge**, May 2019. Project: Herbicide Efficacy on the Control of Silverleaf Nightshade. **Graduated**
- **Shivani Reddy Kathi**, May 2019. Thesis: Effects of Super Absorbent Polymer (SAP) on the Growth, Development, Water and Nitrogen Use Efficiency of Tomato and Determination of Optimal Dose of SAP. **Graduated**
- **Alvin Garcia**, Dec. 2020. Thesis: Evaluation of IMI Herbicide Resistance Sorghum **Graduated**
- **Srinadh Kodali**, Dec. 2020. Thesis: Field evaluation for bacterial blight resistance in cotton and timing of infection. **Graduated**
- **Morgan McCutchen**, August 2021. Thesis: The Analysis of Herbicidal Management for King Ranch and Kleberg Bluestems on the South Texas Rangelands. **Graduated**
- **Lorena Villanueva**, December 2021, Thesis: Efficacy of commercial acaricide with insect growth regulators against *Amblyomma americanum* (Acari: Ixodidae) and *Haemaphysalis longicornis* (Acari: Ixodidae) **Graduated**
- **Sowmy Gudipally**, May 2021 Thesis: Physiological response of Palmer amaranth grown under a limited water environment. (Major Advisor: Dr. Umphres – she left, I became major advisor)
- **Varshith Kommineni**, August 2022, Thesis: Response of Cotton Varieties to Potassium Fertilizer Application in South Texas. **Graduated**
- **Gabriella Garcia**, Dec. 2022. Thesis: Forage sorghum production qualities for IMI Herbicide Resistance Sorghum. **DID NOT COMPLETE**
- **Jared Meyer**, Thesis: May 2022: Thesis: Effect of Conservation Management on Grain Sorghum-Cotton Cropping Systems in a Semi-Arid Region **Graduated**
- **Varshith Kommineni**, August 2022. Thesis: Response of Cotton Varieties to Potassium Fertilizer Application in South Texas. **Graduated**
- **Horacio Rodriguez**, May 2023 Thesis: Hemp production in south Texas Open Fields (Co Advisor: Dr. Josh McGinty) **Graduated**
- **Lauren Goldsmith**, Thesis: 2025. Drone use on forage alfalfa production. **LEFT to go back home.** (Co Advisors: Mahendra Bhandari & Jamie Foster – AgriLife Corpus)
- **Amberly Zamora**, May 2025, Thesis: An investigation into the fertilizer potential of slaughterhouse cattle paunch on water holding capacity. **Changed major advisor**
- **Natalia Salinas**, Dec. 2026. Thesis: Evaluation of Native vs Non-Native Grasses of Forage Quality
- **Sam McCoy**, Dec. 2027. Thesis: Management of *R. rugosum* ssp. *Rugosum* (Bastard Cabbage).

Master of Science Thesis/Research Project Graduates at TAMUK (Committee Member)

- **Ray Hinojosa**, May 2010. Thesis: Aldicarb degradation in flood irrigated south Texas soils in relation to Asian citrus psyllid control. (Major Advisor – Dr. Nelson, Horticulture)
- **Tanmay Verma**, August 2010. Research Project: Feeding sweet potato leaves and vines to growing meat rabbits. (Major Advisor – Dr. Kim McCuiston, Animal Science)
- **Erin Cord**, May 2011. Thesis: Changes in arthropods abundance and diversity with invasive grasses. (Major Advisor – Dr. Andrea Litt, Wildlife)
- **Zack Lopez**, December 2012. Research Project: Grain and Forage Sorghum production in South Texas. (Major Advisor – Dr. Lukefahr, Animal Science)
- **Jeremy Edwardson**, December 2013. Thesis: Seedling competition studies of tanglehead and slender grama grasses. (Major Advisor – Dr. Sandra-Rideout, Wildlife)
- **Carter Couch**, December 2014. Thesis: Vegetation and arthropod response to grubbing and prescribed fire on the King Ranch. (Major Advisor – Dr. Ortega, Wildlife)
- **Hank Birdsall**, May 2015. Thesis: White-tailed Deer Management in the Cattle Fever Tick Quarantine Area. (Major Advisor – Dr. Hewitt, Wildlife)
- **Matt Garza**, May 2016. Research Project: Growth and carcass traits performance of rabbit fryers fed sweet potato forage. (Major Advisor – Dr. Lukefahr, Animal Science)
- **Charlie (Carlos) Martinez**, December 2016. Thesis: Study of soil moisture as influenced by cropping system on Victorian clay. (Major Advisor: Dr. David Ruppert)
- **Boone Bradlee**, Dec. 2016. Project: Mechanic aptitude and critical thinking of Agriculture Science majors. (Major Advisor: Dr. Williams)
- **Stephanie Rivera**, August 2016. Thesis: Atriplex as a Potential Feedstuff in Dairy and Beef Production in the Southwestern United States. (Major Advisor – Dr. Lukefahr, Animal Science)
- **Erica Petropoulos**, Dec. 2016. Research Project: (Major Advisor – Dr. Anouro)
- **Kassandra Gonzalez**, May. 2017. Thesis: Seedling regeneration, growth, and development on abandoned farmland (Major Advisor – Dr. Anouro)
- **Brandon Stoddard**, Dec. 2017. Thesis: Standing for forage effects of brush piles and exclosure, and seedbank effects of turbine construction on shallow calciustolls of the Western Edwards Plateau. (Major Advisor – Dr. Ruppert)
- **Landan Gulick**, Dec. 2017. Thesis: Intensive grazing management for improved soil health. (Major Advisor – Dr. Ruppert)
- **Joe Price**, Dec. 2017. Research Project: The effects of nutrient supplements on cantaloupe yields. (Major Advisor – Dr. Williams)
- **Ruby Saldana**. May 2018. Research Project: Development of Sustainable IPM for Citrus Barnacle Scale. (Major Advisor: M. Setamou).
- **Mounika Pudota**, May 2018. Thesis: Effect of processed organic extract on yield of Capsicum annum (Pepper). (Major Advisor – Dr. Anouro)
- **Vasha Chowdary Anche**, May 2018. Thesis: Timed effects of organic extracts and inorganic fertilizer on growth and development of Tagetes erecta (African marigold) (Major Advisor – Dr. Anouro)
- **Nnana Edmund**, May. 2019. Thesis: Effects of organic extract and inorganic fertilizers on crop primordial initiation and NPK content of soil leachate. (Major Advisor: Dr. Anoruo) Graduated
- **Rajitha Kavuri**, May 2019. Thesis: Optimization of Excision Events of Recombinase at Different Temperatures and Chemical Concentrations. (Major Advisor – Dr. Louzada) Graduated
- **Clarissa Guerreo**, December 2019. Thesis: Alternative method for assessing cattle temperament. (Major Advisor: Dr. Machado) Graduated
- **NagaRajitha Kavuri** (August 2019). Thesis: Optimization of recombinase mediated marker excision in citrus protoplasts. (Major Advisor: Dr. Louzada) Graduated
- **Cynthia Puente**, May 2020. Thesis: The Effect of Thermoherapy on Huanglongbing-affected citrus trees in Texas. (Major Advisor: Dr. Ancona)
- **Ganga Manoj Srirampuram**, May 2020 Thesis (Major Advisor: Dr. Anoruo)
- **Praveen Kumar Reddy Bandagonda**, May 2020 Thesis: (Major Advisor: Dr. Anoruo)

- **Ravi Teja Kumar Reddy Neelipally**, May 2020 Thesis: (Major Advisor: Dr. Anoruo)
- **Sindhu Bojadla**, May 2020. Thesis: (Major Advisor: Dr. Anoruo)
- **Alvin Petty**, May 2020, Project: (Major Advisor: Dr. Williams)
- **Tirumala Danda**, May 2021 Thesis: Molecular Biology/Diagnostics (Major Advisor: Dr. M. Kunta)
- **Pramod Gudipally**, May 2021. Thesis: Molecular Biology/Diagnostics (Major Advisor: Dr. M. Kunta)
- **Sonia Munoz**, Dec. 2021, Project: (Major Advisor: Dr. Setamou)
- **Cecilia Segura**, Aug. 2021, Thesis: (Major Advisor: Dr. Setamou)
- **Yovanna Soto**, Aug. 2021, Thesis: (Major Advisor: Dr. Setamou)
- **Miriam Calderon**, May 2021, Thesis: (Major Advisor: Dr. Ancona)
- **Gina Merzbacher**, Dec. 2022. Thesis: Texas Gulf Coast Shrimp Project- Consumer Preferences Update. (Major Advisor: Dr. Hanagriff)
- **Kristen Rike**, Dec. 2022. Thesis: Guide to Starting a CVA-1 Program in Texas Public High Schools. (Major Advisor: Dr. Steven Chumbley)
- **Sabrina Garza**, Dec. 2022, Thesis: Isolation, Identification, and Monitoring of Fungal Plant Pathogens in Irrigation Water from the Rio Grande River (Major Advisor: Dr. Ancona)
- **Rahul Boppani**, May 2023, Project: Intercropping between peanut (*Arachis hypogaea*) and pepper (Anaheim pepper) to determine the growth and development of pepper. (Advisor: Dr. Seth Abugho)
- **Oliva Segura**, May, 2022, Course Only: (Major Advisor: Dr. Eliezer)
- **Jennifer Belcher**, May, 2022, Course Only: (Major Advisor: Dr. Kunta)
- **Klarissa Cantu**, May, 2022, Course Only: (Major Advisor: Dr. Hanagriff)
- **Harsha Vardhan Manda**, May 2023, Thesis:
- **Sindhu Priya Palla**, May 2023 Thesis:
- **Venkatramana Kotte**, May 2023, Thesis: (Advisor: Dr. Ancona)
- **Satya Venkata Gopinaresh Vurranki**, 2024 Course only: Major advisor: Dr. Dattamudi
- **Erik Zamora**, August 2025, Thesis: Effect of tillage practices and cover crop mixtures on soil physiochemical properties in a long term research field. (Major advisor: Dr. Dattamudi)
- **Nagendra Pratap Singh**, August 2025, Thesis: Integrative Transcriptome and Small RNA Sequencing Reveal miRNA-Mediated Regulatory Mechanisms in the Wheat Stem Sawfly. (Advisor: Dr. Mendu)

Chair: Master of Science: Course Only:

- Stephanie Piece, 2019
- Matthew J Rodriguez, 2019
- Nikki Sandidge, 2021
- Chilukuri Ravi Krisha - 2023
- Ravi Krishna 2023
- Richard Hernandez - 2023
- Praveen Kumar Marapelly - 2023
- Akhil Chowary C. Talluri - 2024
- Rohith Kumar Reddy Kalluri - 2024
- Sunandakumar Andalamala - 2024
- Salmohan Reddy Yeruva - 2024
- Abdul Razak Khan Patan - 2024
- Leticia Robles - 2024
- Vivek Reddy Kotha - 2024
- Vamsikrishna Gopisetty - 2024
- Satya Venkata Gopinaresh Vurranki - May 2025
- Nageswara Rao Vadlamudi - May 2025
- Venkata Pavan Kumar Rayala- May 2025
- Harikrishna Burala - May 2025
- Srikanth Korra- May 2025

- Katie Clark- May 2025
- Randi Schauer- May 2025

Ph.D. Dissertation Project Graduates at TAMUK and Texas A&M University (Committee Member)

- **Chase Currie. Ph.D. Candidate.** May 2013. Dissertation: White-tailed deer visitation rates and spatial use of medicated bait sites in southern Texas.
- **Catherine Simpson. Ph.D. Candidate.** December 2013. TAMU Dissertation: Impact of Salinity Stress on Grafted Vegetable and Citrus Crops.
- **Amanda Lewis. Ph.D. Candidate.** TAMU Co-Advisor - Dissertation: Plant Uptake of Azadirachtin Nanopesticides. **Graduated May 2025**

Graduate Council Representative, TAMUK

- **Oscar Garcia**, PhD Dissertation. 2012. Factors Influencing the Academic Success of Children of a Hispanic World War II Veteran. College of Education.
- **Anastasia Krainyk**, PhD Dissertation. May 2016. Developing a decision support tool for mottled duck conservation along the Western Gulf Coast. (Major Advisor: Dr. Bart Ballard, Wildlife)
- **Kory Gann**, PhD Dissertation. 2018. Foraging Ecology and Population Parameters of Unmanaged White-tailed Deer in Southern Texas. (Major Advisor: Dr. David Hewitt, Wildlife) NEVER COMPLETED
- **Anthony Falk**. PhD Dissertation 2020. Texas Native Seeds with CKWRI; Converting Bermuda grass to native warm-season grasses in the Backland Prairie and Coastal Prairies Ecoregions of Texas.
- **Jason Lombardi**, PhD Dissertation 2020. Habitat Factors Affecting Ocelot Occupancy and Conservation in the Lower Rio Grande Valley (Mike Tewes, Wildlife)
- **Georgina Eccles**, GCR PhD Dissertation, 2025. Non-Breeding Ecology of Northern Pintail (*Anas Acuta*) and Links to Reproduction Performance (Major Advisor: Bart Ballard, Wildlife) 2025 - DID NOT PASS and DID NOT GRADUATE.
- **Ashlee Hesbrook**, EdD Dissertation, 2025, Examining the Correlation Between Summit K1 Programs Usage and TELPAS Composite Scores Among Emergent Bilingual Title I Middle School Students in South Texas. (Major Advisor: Linda Challoo, Education)
- **Loida Gonzalez**, EdD Dissertation, Dec. 2025. Bridging the Transfer Gap: Perceptions from Community College Professionals on Students who Intend to Transfer but do not within the State of Texas. (Advisor: Dr. Linda Challoo, Educational Leadership)
- **Nida Zamilpa**, EdD Dissertation, 2026, Adapting to Innovation: 5th Grade Science Teachers' Mindsets amidst Instructional Change. (Advisor: Dr. Linda Challoo, Educational Leadership)
- **Herlinda Gonzalez**, EdD Dissertation, 2026 Artificial Intelligence in Special Education: Middle School Social Studies Teachers' Perspectives on Enhancing Learning for Students with Learning Disabilities. (Advisor: Dr. Linda Challoo, Educational Leadership)
- **Dart Martin**, PhD Dissertation, 2027, Movement and Spatial Ecology of Pronghorn in the Southern Shortgrass Prairie (Major Advisor: Mike Cherry, Wildlife)
- **Kristyn Stewart-Murphy**, PhD Dissertation, 2027, A Social-Ecological Evaluation of the Quail Decline in Texas (Major Advisor: Fidel Hernandez, Wildlife)

UNIVERSITY/PROFESSIONAL SERVICE ASSIGNMENTS:

University

Faculty Senate - 2024-2026 (now Faculty Advisory Committee)

Faculty Executive Committee - 2025-2026

Institutional Biosafety Committee - 2016 - present

Faculty Reinvestment Awards Committee - 2024-2025

Chancellor's Academy of Teachers Educators - Nomination Committee - 2015 - present

Honorary Degrees Committee - 2024-2026

Double-Dipping Policy Committee - Academic Affairs - 2025-2026
TAMUK Farm Advisory Committee - 2021- 2024
TAMUK Presidential Search Committee - 2022
President Leadership Academy -
Environmental Management Advisory Committee - 2017-2018
University Library Committee - 2016-2017
Center for Teaching Effectiveness (CTE) Advisory Board - 2015-2017
Graduate Council - 2015-2017
Council of Chairs - 2015-2024
Admissions Committee - 2015-2016
Texas A&M AgriLife Conference - Co-Coordinator for Student Research Poster Competition at TAMU 2009; member since 2006
TAMUK Council for Undergraduate Research Proposal Panel Review Committee - 2012-2018

Participated in MOVE-IN Day for the University - worked 6 hrs
Participated in Campus Care Centers - during the rain - 08/27 and 08/28
4DX Training Oct. 16
Participated in the First 100 celebration for Admissions - 2024

Professional

Certified Crop Adviser Board, Texas CCA Board Member; Trainer and site for examinations;
2024 - present - Chair for Texas Board; ICCA Member (International Certified Crop Advisory Board - 2025
Coordinated with the International Soil Health team from the International Soil Science Society to host a TAMUK Soils Health Tour on campus (50 soil scientists from across the USA attended the tour)
State FFA LDE Superintendent for Spanish Creed at Sam Houston, Huntsville (invited) - 2024 & 2025
Editorial Board, Agronomy Section, Subtropical Ag & Environments Journal
South Texas Bobwhite Brigade Committee Member and Presenter - 2010 - present
Texas Ag. Industries Association - 2008 - present
Hosted Entomology FFA CDE Invitational - 2022
Chagas Disease Working Group
USDA/CSREES S-1030: Multi-Flies Impacting Livestock, Poultry, and Food Safety
IPM Symposium Program Committee - 2009

Student Recruitment

Area X FFA District Contest- Judge for Entomology for Area contest - 2009-2021
Javelina Preview Days - participate in ALL activities
Hoggie Days - participate in ALL activities
New Student and Transfer Thursdays - as requested
South Texas Bobwhite Brigade camp - 2 days - insect presentation and field activity
State FFA Convention booth and Volunteer as a Judge at State Texas FFA Agriscience Fair at
State Conference
Greenhouse tour for Laredo high school students requested by Admissions office
Assisted in 4H District convention on campus
Assisted 2 high school students from Riveria high with research and poster presentation; presented at State FFA Convention
Hosted Bi-District FFA LDE Contest on Campus - ~300 high school students and advisors on campus
Hosted Mesquite FFA District Convention

Active club sponsor -

Advisor for Horticulture club

Professional Society Service/ Appointments

American Society of Agronomy - member - 2023- present

Co-hosted SAAS Student Tour – Southern Association of Agricultural Scientists, Feb. 1, 2025, at 2025 SAAS Conference, Irving, Tx

Coordinated with the International Soil Health team from the International Soil Science Society to host **a TAMUK Soils Health Tour on campus (50 soil scientists from across the USA attended the tour)** – 2024

Certified Crop Advisory Board Member for Texas 2010- present; chair 2023- present

American Phytopathological Society

Teaching Committee - 2015-2017; Frank L. Howard Undergraduate Fellowship -Reviewed Scholarship applications from all over the US. The Frank L. Howard Undergraduate Research Fellowship was established to encourage the involvement of undergraduate students in plant pathology research and to encourage students to pursue advanced degrees and careers in plant pathology.

Integrated Plant Disease Management Committee - Chair 2016-2017; Vice Chair 2015-2016

LIST OF PROFESSIONAL MEETINGS WHERE SERVED AS HOST, PANELIST, DISCUSSANT, OR COMMENTATOR

- Judge for Poster competition at the Plant Protection Conference, College Station, Tx. 2019
- Chairman for Ryan Mott Memorial Scholarship at State FFA Degree Awards, June 5-6, Stephenville. 2018 & 2019.
- Moderator, International Horticulture Congress, Brisbane, Australia, August 10-15, 2014
- Moderator, 52nd Annual Caribbean Division of the American Phytopathological Society, Padre Island, April 16-17. 2012.
- Invited Panelist for USDA, ARS, Office of Scientific Quality Review, NP 104 Mosquito and Fly Panel Review, 2010.
- Moderator for Opening session - USDA ARS Workshop: Emergency Research on Cattle Fever Tick and Bovine Babesiosis - April 22-23, 2009 - McAllen, TX
- Co-Program Chair for the International IPM Symposium - March 2009, Portland. Oregon
- Chair of session & judge of graduate student presentations - 53rd Annual Meeting of the Entomological Society of America - (ESA) Ft. Lauderdale, Florida, December 15-18th, 2006.
- Hosted and moderated - Annual meeting of NIMSS, Project/Activity Number: S1005 - "Sources, Dispersal and Management of Stable Flies on Grazing Beef and Dairy Cattle (S274) and NIMSS, Project/Activity Number SDC322 - "Flies Impacting Livestock, Poultry, and Food Safety, Amarillo, TX. 2006
- Chair/Coordinator/Speaker for the 50th Livestock Workers Conference in 2006 in Amarillo, Tx., Two hundred scientists from U.S. and Australia participated in the 3 day conference.
- Hosted 4th Annual Vegetable Conference, WTAMU, Canyon, Session Moderator/Co-Host of Conference, January 23rd- 24th, 2006.
- SERA S-1005/S-1006 - Multi-state USDA/CSREES - commentator/discussant on research results and future projects. 2003-2007
- NIMSS, Project/Activity Number SDC322; Title: "Flies Impacting Livestock, Poultry, and Food Safety" - yearly meeting with email activity monthly
- NIMSS, Project/Activity Number: S1005; Title: "Sources, Dispersal and Management of Stable Flies on Grazing Beef and Dairy Cattle (S274)" - Ended in 2006 - yearly meeting with email activity monthly

DEPARTMENT CHAIRMAN ACADEMIC SERVICE & LEADERSHIP RELATED SKILLS: 2017-2024

1. Department management for students in the following programs: Total: 240 Undergrads + 62 Grads
2. Undergraduate Curriculum Chairman for Department: created and supervised changes in degree programs for Plant and Soil Sciences, Agriculture Science, and Agribusiness.
3. Graduate Curriculum Program Chair: Agriculture Science, Agribusiness, Plant and Soil Science, Environmental Science.
4. Institutional Effectiveness Plans (IEP) for Dept: Create and assess annual departmental program effectiveness
5. Strategic Planning for Dept and College of Ag: Annual assessment review and work on strategic planning for improving departmental and college short-term and long-range goals and imperatives.
6. Student Learning Outcomes (SLOs): Oversaw the established course SLOs within the Dept, and annually assessed goals and measurements as part of Departmental IEP reports.
7. Faculty evaluations: Annual assessment of faculty productivity for 8 faculty on-campus with high teaching appointments (0.75 teaching FTE /0.25 research) and 5 off-campus faculty with high research appointments (0.75 research FTE /0.25 teaching).
8. Oversight approval and recommendation of Department adjunct faculty status for external scientists.
9. Departmental budget management and faculty-related allocations from course enhancement fees.
10. Facilities manager for University greenhouses and department research facility at the university farm
11. Student recruitment and retention for the Department, working with College Dean and Academic Advisors.