**Curriculum Vitae**

1. **PERSONAL INFORMATION**

**Jamie Lee Foster, Ph.D., P.A.S.**

*Associate Professor, Forage Agronomy,*

*Phone: 361-358-6390 E-mail:* [*jlfoster@ag.tamu.edu*](mailto:jlfoster@ag.tamu.edu)

**II. EDUCATION**

Ph.D., Animal Science and Agronomy Minor, University of Florida, May 2008

M.S., Agronomy, Texas A&M University, August 2004

B.S., Animal Science, Tarleton State University, May 2002

**III. PROFESSIONAL EXPERIENCE**

Apr. 2009 to Present, Texas A&M University, Texas A&M AgriLife Research Beeville Station

Graduate Faculty, Texas A&M University-Corpus Christi

Adjunct Faculty, Texas A&M University-Kingsville

May 2008 to Apr. 2009, Postdoctoral Associate, University of Florida, North Florida Research and Education Center

**IV. TEACHING**

1. **Courses (Guest lecturer 14 times; Taught 1 Course)**
2. **Summary Table of Students**

|  |  |  |
| --- | --- | --- |
|  | **Current** | **Graduated** |
| **Chair, M.Sc.** | 0 | 3 |
| **Committee Member, M.Sc.** | 3 | 8 |
| **Chair, Ph.D.** | 1 | 3 |
| **Committee Member, Ph.D.** | 2 | 4 |
| **Undergraduate Student Interns** | 2 | 28 |
| **Job Shadow** | 0 | 3 |

**V. RESEARCH AND EXTENSION**

1. **Summary Table of Grants and Contracts Awarded**

|  |  |
| --- | --- |
| **Type** | **Dollars** |
|
| **External Competitive** | 57,103,215 |
| **Internal** | 2,219,603 |
| **Other** | 20,993 |

1. **Summary Table of Scientific and Professional Presentations Since Hire**

|  |  |
| --- | --- |
| **Type** | **Total** |
| International | 5 |
| National | 15 |
| Regional | 22 |
| State | 23 |
| Local | 34 |

**VI. PUBLICATIONS AND PROFESSIONAL OUTPUT**

1. **Refereed/Peer-Reviewed Publications (Last Three Years; 41 Total)**
2. Norris, A., L.O. Tedeschi, J.L. Foster, J.P. Muir, K.D. Casey, and W. Pinchak. 2020. The effect of quebracho (*Schinopsis balansae*) condensed tannin extract fed to steers on seasonal fecal gas flux. J. Enivron. Qual. (In Press)
3. Smith, W.B., J. Banta, J.L. Foster, L. Redmon, T. Machado, L. Tedeschi, and M. Rouquette. 2020. : Evaluation of growth performance and carcass characteristics of beef stocker cattle grazing Tifton 85 bermudagrass supplemented with dried distillers’ grains with solubles then finished in feedlot. Appl. Anim. Sci. (In Press)
4. Norris, A., L.O. Tedeschi, J.L. Foster, J.P. Muir, W. Pinchak, and M. Fonseca. 2020. Inclusion of Quebracho tannin extract in a high-roughage cattle diet alters digestibility, nitrogen balance, and energy partitioning. J. Animal Sci. 93: doi.org/10.1093/jas/skaa047
5. Xu, Y., N. Porter, J.L. Foster, J.P. Muir, P. Schwab, B.L. Burson, and R.W. Jessup. 2020. Silica production across candidate lignocellulosic biorefinery feedstocks. Agronomy. 10:82. doi.org/10.3390/agronomy10010082
6. Norris, A., L.O. Tedeschi, J.L. Foster, J.P. Muir, W. Pinchak, and M. Fonseca. 2020. Influence of quebracho tannin extract fed at differing rates within a high-roughage diet on the apparent digestibility of dry matter and fiber, nitrogen balance, and fecal gas flux. Animal Feed Science & Technology. 260: doi.org/10.1016/j.anifeedsci.2019.114365
7. Foster, J.L., M.E. Thomas-Moen, K.C. McCuistion, L.A. Redmon, and R.W. Jessup. 2019. Potential of ensiling sorghum without grain pre-treated with enzymes or bacterial inoculants. Crop Sci. doi:10.2135/cropsci2019
8. Lewis, K.L., J.L. Foster, and F.M. Hons. 2019. Lipid-extracted algae as a soil amendment can increase soil salinization and reduce forage growth. Sustainability. 11:1-18. doi:10.3390/su11071946
9. Grichar, W.J., and J.L. Foster. 2019. Can nicosulfuron plus metsulfuron combinations effectively control or suppress King Ranch bluestem? Crop, Forage, and Turfgrass Mngmt. doi:10.2134/cftm2018.09.0069
10. Xu, Y., J.L. Foster, J.P. Muir, B.L. Burson, and R.W. Jessup. 2018. Succinic acid production across candidate lignocellulosic biorefinery feedstocks. Amer. J. Plant Sci. doi: 10.4236/ajps.2018.911155
11. Foster, J.L., M.E. Bean, C. Morgan, G. Morgan, R. Mohtar, J. Landivar, and M. Young. 2018. Comparison of two tillage practices in a semi-arid cotton-grain sorghum rotation. Agron. J. 110: 4: 1572-1579. doi:10.2134/agronj2017.12.0706
12. Lewis, K.L., J.L. Foster, F.M. Hons, and T. Boutton. 2017. Initial aggregate formation and soil carbon storage from lipid-extracted algae amendment. AIMS Environ. Sci. 4:743-762. doi:10.3934/environsci.2017.6.743
13. **13 Editor Reviewed Publications**
14. **Scientific Abstracts (Last Two Years; 125 Total)**
15. Bekewe, P.E., H.L. Neely, C.B. Neely, J.L. Foster, K.L. Lewis, T.W. Boutton, B. Gerrish, and A.J. Gyawali. 2020. Comparing soil health parameters in no-till and conventional tillage farms across three ecoregions in Texas. ASA-CSSA-SSSA 2020 International Meetings, Pheonix, AZ, Nov. 8-11. (Abstr.)
16. Dube, N., A. Chang, X. Shen, J. Landivar, and J.L. Foster. 2020. Unmanned aircraft system (UAS) based forage biomass prediction using an artificial neural network. ASA-CSSA-SSSA 2020 International Meetings, Pheonix, AZ, Nov. 8-11. (Abstr.)
17. Shen, X, J. Landivar, A. Chang, N. Dube, and J.L. Foster. 2020. Identifying botanical compostion and accuary assessment on high-resolution imagery of grassland mixtures. ASA-CSSA-SSSA 2020 International Meetings, Pheonix, AZ, Nov. 8-11. (Abstr.)
18. Cardenas, S., A. Bhandari, A. Umphres, J.L. Foster, J. Landivar, and N. Dube. 2020. Response of high yielding cotton (Gossypium hirsutum L.) varieties to potassium fertilizer application in dryland south Texas. ASA-CSSA-SSSA 2020 International Meetings, Pheonix, AZ, Nov. 8-11. (Abstr.)
19. Jacobb, P., A.J. Gyawali, A.P. Smith, H. Neely, J.L. Foster, and P. Bekewe. 2020. Developing spatial sampling strategies for monitoring microbial exoenzyme activity for soil health. ASA-CSSA-SSSA 2020 International Meetings, Pheonix, AZ, Nov. 8-11. (Abstr.)
20. Foster, J.L., P.E. Bekewe, H.L. Neely, C.B. Neely, L.E. Tomlin, and K.L. Lewis. 2020. Wheat double cropping systems to improve soil health. Soil and Water Conservation International Annual Conference, Des Moines, IA, Jul. 26-29. (Abstr.)
21. Victoria, M., H.R. Leggette, J.L. Foster, H. Neely, C. Neely, K. Lewis, P. Bekewe, B.J. Gerrish, and J. Parrella. 2020. Minding the microbes: The adoption of soil health management techniques by Oklahoma wheat producers. Soil and Water Conservation International Annual Conference, Des Moines, IA, Jul. 26-29. (Abstr.)
22. Garcia, A., J.A. McGinty, J.L. Foster, G. Schuster, and A. Umphres. 2020. Weed management systems in imidazolinone tolerant grain sorghum in south Texas. Weed Science Society of American Annual Meeting. Maui, HI, Mar 2-5. (Abstr.)Bekewe, P.E., H.L. Neely, C.B. Neely, J.L. Foster, K.L. Lewis, B. Gerrish, L.E. Tomlin, and T.W. Boutton. 2020. Building soil health and food security in wheat-based cropping systems in Texas. Soil Survey and Land Resource Workshop, College Station, TX, Feb. 6-7. (Abstr.)
23. Victoria, M., H.R. Leggette, J.L. Foster, H. Neely, C. Neely, K. Lewis, P. Bekewe, B.J. Gerrish, and J. Parrella. 2020. Measuring adoption of soil health practices of wheat producers in Texas. National Agricultural Communication Symposium, Louisville, KY, Feb. 2-3. (Abstr.)
24. Garcia, A., J.L. Foster, G. Schuster, A. Umphres, and J.A. McGinty. 2020. Weed management systems in imidazolinone tolerant sorghum (Sorghum bicolor) in south Texas. Subtropical Agriculture and Environments Society, Weslaco, TX, Feb. 7. (Abstr.)
25. Bekewe, P.E., H.L. Neely, C.B. Neely, L.E. Tomlin, J.L. Foster, K.L. Lewis, T.W. Boutton, and B. Gerrish. 2019. Towards improving soil health in wheat cropping systems in Texas. Texas Plant Protection Conference, College Station, TX, Dec. 10-11. (Abstr.)
26. Garcia, A., J.L. Foster, A. Umphres, G. Schuster, and J.A. McGinty. 2019. Weed management systems in imidazolinone tolerant sorghum (Sorghum bicolor) in south Texas. Texas Plant Protection Conference, College Station, TX, Dec. 10-11. (Abstr.)
27. Clayton, M., J.L. Foster, A. Chang, M. Starek, X. Shen, N. Dube, and D. Gonzalez. 2019. Using drones to support management decisions on rangelands and pastures. Texas Plant Protection Conference, College Station, TX, Dec. 10-11. (Abstr.)
28. Bekewe, P.E., H.L. Neely, C.B. Neely, L. Tomlin, J.L. Foster, K.L. Lewis, and T.W. Boutton. 2019. Can double cropping provide similar soil health benefits as cover crops? ASA-CSSA-SSSA 2019 International Meetings, San Antonio, TX, Nov. 10-13. (Abstr.)
29. Bekewe, P.E., H.L. Neely, C.B. Neely, L. Tomlin, J.L. Foster, K.L. Lewis, and T.W. Boutton. 2019. The impact of reduced tillage and double cropping on soil moisture dynamics. ASA-CSSA-SSSA 2019 International Meetings, San Antonio, TX, Nov. 10-13. (Abstr.)
30. Flynn, K., P.W. Tracy, D. Liptzin, G.M. Bean, S. Cappellazzi, M. Cope, K.L. Hoegenauer, E. Rieke, C. Norris, C.W. Honeycutt, C.L.S. Morgan, and NAPSHM Collaborators. 2019. Slakes smartphone application to quantify aggregate stability: Performance across a range of soil types and managements. ASA-CSSA-SSSA 2019 International Meetings, San Antonio, TX, Nov. 10-13. (Abstr.)

- Authorship listed under NAPSHM Collaborators (North American Project to Evaluate Soil Health Measurements)

1. Garcia, A., J.A. McGinty, J.L. Foster, and G. Schuster. 2019. Weed management systems in imidazolinone tolerant sorghum (Sorghum bicolor) in south Texas. ASA-CSSA-SSSA 2019 International Meetings, San Antonio, TX, Nov. 10-13. (Abstr.)
2. Hoegenauer, K.L., G.M. Bean, S. Cappellazzi, M. Cope, D. Liptzin, C. Norris, E. Reike, P.W. Tracy, K. Flynn, C.W. Honeycutt, J.A. Howe, C.L.S. Morgan, and NAPSHM Collaborators. 2019. Comparing aggregate stability analyses to evaluate soil health across North America. ASA-CSSA-SSSA 2019 International Meetings, San Antonio, TX, Nov. 10-13. (Abstr.)
3. Morgan, C.L.S., P.W. Tracy, G.M. Bean, M. Cope, S. Cappellazzi, K.L. Hoegenauer, D. Liptzin, C. Norris, E. Rieke, NAPSHM Collaborators, and C.W. Honeycutt. 2019. Measurements to assess soil health indicators and link them to soil ecosystem services. ASA-CSSA-SSSA 2019 International Meetings, San Antonio, TX, Nov. 10-13. (Abstr.)
4. Pintar, J., P. Smith, H.L. Neely, C.B. Neely, J.L. Foster, K.L. Lewis, P.E. Bekewe, A.J. Gyawali, and J. Desrochers. 2019. Developing spatical sampling strategies for monitoring mirobial activity for soil health. ASA-CSSA-SSSA 2019 International Meetings, San Antonio, TX, Nov. 10-13. (Abstr.)
5. Stufflebeam, A., H.L. Neely, P.E. Bekewe, K.L. Lewis, J.L. Foster, and C.B. Neely. 2019. Comparing the impact of short-term soil health practices on aggregate stability across Texas. ASA-CSSA-SSSA 2019 International Meetings, Baltimore, MD, Nov. 10-13. (Abstr.)
6. Bekewe, P.E., H.L. Neely, C.B. Neely, J.L. Foster, K.L. Lewis, B. Gerrish, and T.W. Boutton. 2019. The impact of double cropping and tillage systems on cropping systems productivity in three ecoregions in Texas. Small Grains Workers Meeting, College Station, TX, Aug. 28. (Abstr.)
7. Norris, A.B., L.O. Tedeschi, J.L. Foster, J.P. Muir, and B.E. Pinchak. 2019. Effects of feeding different levels of Quebracho (Schinopsis balansae) in a high-roughage total mixed ration on seasonal manure gas emissions. American Society of Animal Science-Canadian Society of Animal Science Annual Meeting, Austin, TX, Jul. 8-11. (Abstr.)
8. Norris, A.B., L.O. Tedeschi, J.L. Foster, J.P. Muir, and B.E. Pinchak. 2019. Influence of Quebracho (Schinopsis balansae) tannin extract fed at differing rates in a high-roughage diet on energy partitioning in beef steers. American Society of Animal Science-Canadian Society of Animal Science Annual Meeting, Austin, TX, Jul. 8-11. (Abstr.)
9. Bekewe, P.E., H.L. Neely, C.B. Neely, J.L. Foster, K.L. Lewis, and T.W. Boutton. 2019. The impact of double cropping and tillage systems on soil health in wheat cropping systems in three ecoregions in Texas. Soil Survey and Land Resource Workshop, College Station, TX, Feb. 7 – 8. (Abstr.)
10. Young, M., J.L. Foster, J. McGinty, S. Klose, and A. Maeda. 2019. No-till farming practices offer cost savings and more profit to cotton and grain sorghum producers. Southern Agricultural Economics Association Annual Meeting, Birmingham, AL, Feb. 2-5. (Abstr.)
11. Bekewe, P.E., H.L. Neely, C.B. Neely, L.E. Tomlin, J.L. Foster, and K.L. Lewis. 2019. Towards improving soil health in wheat cropping systems in Texas. Soil Science Society of America Meetings, San Diego, CA, Jan. 6-9. (Abstr.)
12. **Book Chapter**
13. Jennings, J., and **J.L. Foster**. 2020. Legume Structure and Morphology. In: D. Redfearn, et al., editors, Forages: The Science of Grassland Agriculture. Vol. II, 7th ed., Wiley-Blackwell, Hoboken, NJ.

**VII. HONORS AND AWARDS**

Texas A&M AgriLife Research, AgriLife Advanced Leadership Program Cohort IV Participant. 2016-2018.

Matthew Bean, M.S. Student, 2nd Place Oral Presentation Contest, 53rd Annual Soil Survey and Land Resource Workshop. 2016.

Katie Rothlisberger-Lewis, Ph.D. Student, 3rd Place Graduate Student Poster Competition in Soils, Agronomy Society of America 2014 Southern Branch Meeting

Katie Rothlisberger-Lewis, Ph.D. Student, 3rd Place Graduate Student Poster Competition Agronomy Society of America Soil Carbon and Greenhouse Gas Emissions Community, ASA-CSSA-SSSA 2013 International Meetings

Reagan Noland, M.S. Student, 1st Place Graduate Student Poster Competition in Crops, Agronomy Society of America 2013 Southern Branch Meeting

Corpus Christi 40 Under 40. 2011.

First Place, Robert F. Barnes Graduate Student Competition, International Crop Science Society of America Meetings, 2006