

Sawyer C. Main, MS

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PROFESSIONAL SUMMARY

- 5+ years of experience in youth livestock education including program management and leadership of youth livestock educational programs, volunteer management, organizational and communication skills
- Liaison to external partner youth programs focused on food animals including the FFA and 4-H:
 - Assist in oversight state-level junior livestock shows and competitive events
 - Develop and provide animal science youth program resources to stakeholders
 - Provide training to support leading youth through competitive events
- Contribute to the development of a statewide network of volunteers committed to planning and delivering youth livestock events
- Manage financial resources related to youth programming focused on food animals

EDUCATION

University of Tennessee, Knoxville, TN
Master of Science; Animal Science
Focus on Youth Development and Equine Metabolomics

University of Tennessee, Knoxville, TN
Bachelor of Science; Agricultural Leadership, Education, and Communications
Focus on Agriculture Education
Minor: Food and Agricultural Business

PROFESSIONAL EXPERIENCE

University of Tennessee Institute of Agriculture, Knoxville, TN
Extension Assistant II; Animal Science, 2024-Present *2017-Present*
Extension Assistant I; Animal Science, 2021-2024
Graduate Teaching Assistant; Animal Science, 2020-2023
Student Ambassador, 2017-2020

West Greene High School, Mosheim, TN *2020*
Student Teacher; Agriculture

Tennessee 4-H Youth Development, Knoxville, TN *2019-2020*
Student Assistant

EXTENSION EXPERIENCE

Within the role of Extension Assistant, provide support to 9 Animal Science Extension Specialists and aid in planning, managing, and executing programming across youth and adult audiences. Coordinated the delivery and implementation of the following Extension events, representing over 3,850 youth, 1,600 adult, and 250 agent contacts:

- State 4-H Swine Show, 2022-2026
- Veterinary Health and Nutrition CE Conference, 2021-2026
- Tennessee Beef Agribition Judging Contest, 2022-2025
- Block and Bridle Roundup Judging Contest, 2022-2025
- State Horse Bowl & Hippology Contest, 2021-2026
- State Livestock Quiz Bowl Contest, 2022-2026
- Eastern National 4-H Horse Roundup, 2021-2025
- State 4-H Sheep Expo, 2021-2025
- State 4-H Dairy Show, 2021-2025
- State Dairy Judging Contest, 2021-2025

- State 4-H Goat Show, 2022-2025
- Southern Regional 4-H Horse Championships, 2021-2025
- Tennessee 4-H Roundup, 2021-2025
- State 4-H Beef Expo, 2021-2025
- State 4-H Horse Show, 2021-2025
- Tennessee 4-H Academic Conference, 2021-2025
- 4-H Livestock All-Star Banquet, 2021-2025
- Joint Animal Science In-Service Training, 2021-2025

EXTENSION AND OUTREACH PROJECTS

Equine Carcass Composting and Skeleton Recovery Project

Provide support for this unique project that serves several missions within the UT equine program. We utilize donated equine carcasses to generate a composting demonstration site for county Extension agent training and public educational events. Then, we disrupt the composting process to recover the skeleton, and through novel processing developed through this collaborative effort, we can degrease, disinfect, and preserve the skeleton for future educational use. As of January 2023, we have fully recovered 2 skeletons and have another mid-way through the composting process. This work is the result of collaborative efforts of R. Williamson (National Park Service), K. Thomson and E. Plunk (UTIA Middle Tennessee Research and Education Center), A. Jansen (UTK Anthropology), and S. Hawkins (UTIA Biosystems Engineering).

UTHorse Website

Help manage and edit the UTHorse website in response to requests from both County Extension Agents and the public for a central location of science-based, research-driven equine management information. Populate this website by collecting, summarizing, organizing and uploading relevant UT Extension publications, UTIA references, and external resources. Currently 192 publications are now freely available to visitors of this website, accessible at <http://uthorse.com/> or <https://uthorse.tennessee.edu>. Since assuming this role in 2021, the UTHorse site has reached over 200,000 individuals, throughout the United States and internationally.

Equine Programs at The University of Tennessee Facebook Page

Aid in page management and content generation for our social media presence, identified as a critical method of disseminating programmatic efforts and alerting the general public of current events. Educational, event promotion, and program awareness posts have reached over 1,000,000 individuals since 2020.

TEACHING EXPERIENCE

University of Tennessee

YOUTH EXTENSION OUTREACH AND TEACHING

Major Programmatic Focus Areas:

4-H Academic Conference: Contributing instructor for the equine project youth ranging from 6-8th grades.

4-H Livestock Expos: Provide logistical support for all Tennessee 4-H Livestock Expos (Beef, Sheep, Goat, Swine, Dairy, and Horse) and assist in facilitating/judging educational contests (Sales Talk, Poster Contest, Photography Contest, and Job Interview) at each expo.

Youth Extension and Outreach Teaching Experience:

1. **Main, S.C.** *Careers in Animal Science*. 4-H Academic Conference. Knoxville, TN. 75 direct contacts. 13 June 2024.
2. **Main, S.C., Fancher, M.** *Careers in Animal Science*. 4-H Academic Conference. Knoxville, TN. 75 direct contacts. 15 June 2023.
3. Ivey, J.L.Z., **Main, S.C.** *Interview Strategies*. 4-H Roundup. Martin, TN. 8 direct contacts. 18 July 2022.
4. Ivey, J.L.Z., Strickland L.G., Watson, O. **Main, S.C.** *Horseshoeing Basics*. 4-H Academic Conference. Knoxville, TN. 20 direct contacts. 15 June 2022.

5. Ivey, J.L.Z., Strickland L.G., Watson, O. **Main, S.C.** *Leg Wrapping and Bandaging*. 4-H Academic Conference. Knoxville, TN. 20 direct contacts. 14 June 2022.
6. Ivey, J.L.Z., Strickland L.G., Watson, O. **Main, S.C.** *Equine Internal Parasites*. 4-H Academic Conference. Knoxville, TN. 20 direct contacts. 14 June 2022.
7. Self, A., **Main, S.C.**, Ivey, J.L.Z. *Estimating Body Weight and Assessing Body Condition*. State 4-H Horse Championships. Shelbyville, TN. 120 direct contacts. 15 June 2021.
8. Rostad, D.R., **Main, S.C.**, Parr, M., Ivey, J.L.Z. *Leg Wrapping*. 4-H Academic Conference. Knoxville, TN. 15 direct contacts. 7 June 2021.
9. **Main, S.C.**, Rostad, D.R., Parr, M., Ivey, J.L.Z. *Fecal Egg Count Test*. 4-H Academic Conference. Knoxville, TN. 15 direct contacts. 7 June 2021.
10. Rostad, D.R., **Main, S.C.**, Parr, M., Ivey, J.L.Z. *Coat Color Genetics*. 4-H Academic Conference. Knoxville, TN. 15 direct contacts. 7 June 2021.
11. Parr, M., Rostad, D.R., **Main, S.C.**, Ivey, J.L.Z. *Equine Gastrointestinal Tract*. 4-H Academic Conference. Knoxville, TN. 15 direct contacts. 7 June 2021.
12. **Main, S.C.**, Hester, J., Ivey, J.L.Z. *Breaking the Virtual Ice*. American Youth Horse Council Annual Symposium. Zoom. 105 direct contacts. 4 March 2021.

ADULT EXTENSION OUTREACH AND TEACHING

Major Programmatic Focus Areas:

Tennessee Master Horse Program (TMHP): Provide logistical support and manage online educational tools for this fee-based certification program offered throughout Tennessee. The TMHP is designed to provide unbiased, science-based information to equine owners, business operators and enthusiasts covering a variety of health and management topics. Since its inception, the program has certified over 1,000 individuals, with over 700 completing the program in the last 6 years (2021-2026).

Horse Management Field Days: Assist with instruction delivery and provide support for this hands-on educational event held on an annual basis within each region of Tennessee. The field day events allow face-to-face educational interaction with county Extension agents, stakeholders, and the general public to disseminate timely, applicable, research-driven topics to equine owners. Since 2021, the event has been held in person and reaches over 200 people each year.

Veterinary Nutrition and Health Continuing Education Conference: Provide logistical support for this 20-hour continuing education credit course designed to provide an open exchange between veterinarians, veterinary students, veterinary technicians, County Extension Agents, and Tennessee Department of Agriculture professionals on nutrition and health topics.

Adult Extension and Outreach Teaching Experience:

1. **Main, S.C.**, Ivey, J.L.Z. *Responsible Horse Ownership*. Tennessee Master Horse Program. Zoom. 222 direct contacts. 16 February 2025.
2. **Main, S.C.**, Ivey, J.L.Z. *Responsible Horse Ownership*. Southeast Tennessee Horse Workshop. 35 direct contacts. Soddy Daisy, TN. 15 November 2024.
3. **Main, S.C.**, Ivey, J.L.Z. *Composting and Skeleton Recovery*. Central Region Horse Management Field Day. 150 direct contacts. Spring Hill, TN. 13 February 2024.
4. **Main, S.C.**, Ivey, J.L.Z. *Composting and Skeleton Recovery*. Western Region Horse Management Field Day. 50 direct contacts. Lexington, TN. 12 February 2024.

5. **Main, S.C., Ivey, J.L.Z.** *Composting and Skeleton Recovery*. Eastern Region Horse Management Field Day. 150 direct contacts. Knoxville, TN. 6 February 2024.
6. **Main, S.C., Ivey, J.L.Z.** *6 Tips for Improving Your Horse's Nutrition*. Van Buren County Horse Meeting. 31 direct contacts. 27 February 2023.
7. **Main, S.C.** *Careers in Animal Science*. Northeast State Community College Agriculture Department. 15 direct contacts. Blountville, TN. 13 September 2022.
8. Ivey, J.L.Z., **Main, S.C.** *Composting Large Animal Mortalities and Skeleton Recovery*. USDA Animal Health Exchange Program. 20 direct contacts. Spring Hill, TN. 25 August 2022.
9. Ivey, J.L.Z., **Main, S.C.,** Watson, O., Berger, A., Spooner, H. *Under the Skin: Equine Leg Dissection and Heart/Lung Anatomy*. American Youth Horse Council Annual Symposium. Murfreesboro, TN. 87 direct contacts. Murfreesboro, TN. 19 March 2022.

IN-SERVICE TEACHING

Major Programmatic Areas:

Joint Animal Science In-Service Training: Provide logistical support for this training for UT/TSU Extension County Agents covering multiple livestock species and management recommendations on an annual basis to each region of Tennessee. Coordinate the efforts of the Animal Science Extension Team (10 people total) including 7 faculty level specialists, 2 MS level specialists, and an Extension Assistant.

In-Service Teaching Experience:

1. **Main, S.C.,** Fisher, A. *Educational Contests at Youth Livestock Expos*. Joint Animal Science In-Service Training. Spring Hill, TN. 55 direct contacts. 3 December 2024.
2. Fisher, A., **Main, S.C.** *Mock Livestock Show*. Joint Animal Science In-Service Training. Spring Hill, TN. 57 direct contacts. 7 December 2023.
3. **Main, S.C.** *Ins and Outs of Sales Talk Contests*. Joint Animal Science In-Service Training. Spring Hill, TN. 57 direct contacts. 7 December 2023.
4. **Main, S.C.** *Horse Breeds*. Joint Animal Science In-Service Training. Spring Hill, TN. 60 direct contacts. 7 December 2022.
5. Berger, A., **Main, S.C.** *Equine Tack and Equipment*. Joint Animal Science In-Service Training. Spring Hill, TN. 60 direct contacts. 6 December 2022.
6. Strickland, L., **Main, S.C.** *Equine Health*. Joint Animal Science In-Service Training. Spring Hill, TN. 60 direct contacts. 6 December 2022.

CLASSROOM INSTRUCTION EXPERIENCE

ANSC 485 Equine Management: Teaching assistant for all labs covering management strategies and practices as students aided equine operation owners in making new and improved management decisions.

ANSC 330 Comparative Animal Nutrition: Guest lecturer for one lab covering fundamentals of equine nutrition, ration formulation, and feeding management for the athletic, growing, geriatric, insulin resistant and starved horse.

ANSC 395 Careers in Animal Science: Guest lecturer for one lecture covering career opportunities in Extension and graduate school including ways to be marketable to potential employers, types of jobs available, seeking applicable graduate training, and an overview of Extension objectives.

PUBLICATIONS

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. **Main, S.C.**, Brown, L.P., Melvin, K.R., Campagna, S.R., Voy, B.H., Castro, H.F., Strickland, L.G., Hines, M.T., Jacobs, R.D., Gordon, M.E., Ivey, J.L.Z. *Metabolomic Profiles in Starved Light Breed Horses During the Refeeding Process*. *Animals*. 2022. doi: [10.330/ani12192527](https://doi.org/10.330/ani12192527)

EXTENSION PUBLICATIONS

1. **Main, S.C.**, Rostad, D.R., Ivey, J.L.Z. *Horse Judging Manual: Evaluating Conformation*. UT Extension Publication. In press. 2023.

PAPERS OR EXTENDED ABSTRACTS PUBLISHED IN CONFERENCE PROCEEDINGS

1. Parr, M., Shepherd, E., Hines, M., Strickland, L., Sun, X., **Main, S.**, Melvin, K., Jacobs, R., Gordon, M., Voy, B., Ivey, J.L.Z. *Metabolic Gene Expression Across Tissues Between Emaciated and Moderately Conditioned Horses*. Equine Science Society. *Journal of Equine Veterinary Science*. 2023. doi: <https://doi.org/10.1016/j.jevs.2023.104314>
2. **Main, S.**, Strickland, L., Rhinehart, J., Ivey, J.L.Z. *Using Youth Hippology Contest Results as a Needs Assessment for 4-H Horse Project Members*. Equine Science Society. *Journal of Equine Veterinary Science*. 2023. doi: <https://doi.org/10.1016/j.jevs.2023.104510>
3. **Main, S.**, Williamson, R., Plunk, E., Hawkins, S., Thompson, K., Strickland, L., Ivey, J.L.Z. *Interrupting the Composting Process for Equine Carcass Skeleton Recovery*. Equine Science Society. *Journal of Equine Veterinary Science*. 2023. doi: <https://doi.org/10.1016/j.jevs.2023.104401>
4. Mason, K., Fancher, M., Ivey, J.L.Z., Strickland, L., Rowan, T., Eckelkamp, E., Rhinehart, J., Shanks, J., Fisher, A., Tabler, T., Zoca, S., **Main, S.** *Academic Quadrathlon as an In-Service Training Tool*. Southern Section American Society of Animal Science. 2023. doi: <https://doi.org/10.1093/jas/skad068.011>
5. **Main, S.C.**, Brown, L.P., Melvin, K.R., Campagna, S.R., Voy, B.H., Castro, H.F., Strickland, L.G., Hines, M.T., Jacobs, R.D., Gordon, M.E., Ivey, J.L.Z. *Alterations in metabolism during the refeeding process in emaciated equines*. American Chemical Society. 2023.
6. **Main, S.C.**, Melvin, K.R., Self, A., Rostad, D.R., Ivey, J.L.Z. *Conversion to an Online Delivery Method for the Tennessee Master Horse Program*. Southern Section American Society of Animal Science. *Journal of Animal Science*. 2022. doi: [10.1093/jas/skac028.015](https://doi.org/10.1093/jas/skac028.015)
7. **Main, S.C.**, Kibler, M.L., Thompson, J.M., Schenider, L.G., Ivey, J.L.Z. *COVID-19 pandemic affects care access and financial stability for equine owners/leasers and facility operators*. Equine Science Society. *Journal of Equine Veterinary Science*. 2021. doi: [10.1016/j.jevs.2021.103581](https://doi.org/10.1016/j.jevs.2021.103581)
8. Rostad, D.R., Ashburn, M.B., **Main, S.C.**, Thompson, J.M., Kibler, M.L., Ivey, J.L.Z. *Physical, discipline, and breed factors influence sale price between stock-type and sport-type horses sold in online auctions*. Equine Science Society. *Journal of Equine Veterinary Science*. 2021. doi: [10.1016/j.jevs.2021.103582](https://doi.org/10.1016/j.jevs.2021.103582)
9. MB Ashburn, DR Rostad, **SC Main**, JM Thompson, ML Kibler, Ivey, J.L.Z. *Factors influencing sale and bid price of sport-trained horses and ponies sold at online auctions*. Equine Science Society. *Journal of Equine Veterinary Science*. 2021. doi: [10.1016/j.jevs.2021.103614](https://doi.org/10.1016/j.jevs.2021.103614)

ARTICLES PUBLISHED IN-HOUSE

1. **Main, S.C.**, Melvin, K.R., Self, A., Rostad, D.R., Ivey, J.L.Z. *Conversion to an Online Delivery Method for the Tennessee Master Horse Program*. Southern Section American Society of Animal Science. Journal of Animal Science. UT Extension Conference. 2022.

PROJECTS, GRANTS, COMMISSIONS, AND CONTRACTS

COMPLETED PROJECTS

1. Ivey, J.L.Z., Strickland, L., **Main, S.C.** *Horse Management Field Days (Eastern, Central, and Western Regions)*. **Provide logistical support and coordinate registration**. February 2023. Value: \$3,500.
2. Strickland, L., and Ivey, J.L.Z., **Main, S.C.** *Equine Nutrition Veterinary CE Conference*. **Served as a co-instructor and provided logistical support**. January 2023. Value: \$6,400.
3. Ivey, J.L.Z., **Main, S.C.**; *Tennessee Master Horse Program*. **Managed and maintained online educational tools (Google Classroom, Zoom)**. UT Extension fee-based program. 2022. Value: \$25,410.
4. Fisher, A.E., and Ivey, J.L.Z., **Main, S.C.**; *Tennessee State 4-H Horse Program*. **Created educational content**. UT Extension Fee-Based Program. Annual Program Year 2022. Value: \$39,602.
5. Ivey, J.L.Z., Strickland, L., **Main, S.C.**, White, B. (Western Region Only), Rickman, S. (Western Region Only). *Horse Management Field Days: Eastern, Central, and Western Region*. **Provide logistical support and coordinate registration**. UT Extension Fee-Based Program. 2022. Value: \$1,450.

PROJECTS FUNDED AND IN PROGRESS

1. Ivey, J.L.Z., **Main, S.C.** *Equine Nutrition Short Course*. **Manage and maintain online educational tools (Google Classroom, Zoom)**. UT Extension Fee-Based Program. September 2024. Value: \$43,725.
2. Ivey, J.L.Z., **Main, S.C.** *Tennessee Master Horse Program*. **Manage and maintain online educational tools (Google Classroom, Zoom)**. UT Extension Fee-Based Program. January 2023-Present. Value: \$27,995.
3. Fisher, A.E., Ivey, J.L.Z., **Main, S.C.**; *Tennessee State 4-H Horse Program*. **Create educational content**. UT Extension fee-based program. Annual Program Year 2023. Current Value: \$3,000.