

CURRICULUM VITAE

Name: Brittany Leigh Paris
Title: Assistant Professor of Animal Science
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A. Education/Training

Doctor of Philosophy, Texas A&M University, College Station, TX

Animal Science, December 2024

Dissertation Title: *Bisphosphonate pharmacokinetics and comprehensive effects on bone growth and healing.*

Master of Science, Texas A&M University, College Station, TX

Animal Science, August 2020

Thesis Title: *Effects of aquatic conditioning on cartilage and bone metabolism in young horses.*

Bachelor of Science, Texas A&M University, College Station, TX

Animal Science- Science Option, Equine Science Certificate, May 2018

B. Employment/Experience

2024-Present Assistant Professor of Animal Science, Sam Houston State University

2024 Tom Slick Graduate Research Fellow, Texas A&M University

2018-2023 Graduate Research Assistant, Texas A&M University

2018-2023 Graduate Teaching Assistant, Texas A&M University

C. Professional Experience & Memberships

2018-Present Member, Equine Science Society

2018-Present Member, American Society of Animal Science

2021-2023 Graduate Student Representative, Board of Directors, Equine Science Society

2019-2020 Social Chair, Texas A&M Animal Science Graduate Student Association

2018-2020 Member, Texas A&M Animal Science Graduate Student Association

D. Refereed Publications (Silvers and Paris are the same author)

2025 Carter, M.M., J.L. Leatherwood, **B.L. Paris**, G.E. Moore, J.M. George, R.E. Martinez, K. Karges, J.R. Cox, C.E. Arnold, K.G. Glass, A.N. Bradbery, A. Rodiles, and T.A.

Wickersham. Influence of *Saccharomyces cerevisiae* CNCM I-1077 on the fecal pH, markers of gut permeability, fecal microbiota, and markers of systemic inflammation in sedentary horses fed a high-starch diet. *J. Anim. Sci.* skaf005. doi:10.1093/jas/skaf005

2023 Vergara-Hernandez, F.B., B.D. Nielsen, J.J. Kottwitz, C.L. Panek, C.I. Robison, **B.L. Paris**, T.H. Welsh, Jr., A.N. Bradbery, J.L. Leatherwood, and A.C. Colbath.

Pharmacokinetics and plasma protein binding of a single dose of clodronate disodium are similar for juvenile sheep and horses. *Am. J. Vet. Res.* 84(8) doi:10.2460/ajvr.23.03.0051

- 2023 Martinez, R.E., J.L. Leatherwood, A.N. Bradbery, **B.L. Paris**, C.J. Hammer, D. Kelley, F.W. Bazer, and G. Wu. Evaluation of dietary arginine supplementation to increase placental nutrient transporters in aged mares. *Transl. Anim. Sci.* 7(1):txad058. doi:10.1093/tas/txad058
- 2023 Leise, J.M., J.L. Leatherwood, **B.L. Paris**, K.W. Walter, J.M. George, R.E. Martinez, K.G. Glass, C.-P. Lo, T.P. Mays, and T.A. Wickersham. Evaluation of an oral supplemental cannabidiol product for acceptability and performance in mature horses. *Animals.* 13(2): 245. doi:10.3390/ani13020245
- 2022 Martinez, R.E., J.L. Leatherwood, A.N. Bradbery, **B.L. Silvers**, J. Fridley, C.E. Arnold, E.A. Posey, W. He, F.W. Bazer, and G. Wu. Equine enterocytes actively oxidize l-glutamine, but do not synthesize l-citrulline or l-arginine from l-glutamine or l-proline in vitro. *J. Anim. Sci.* 100(4):skac077 doi:10.1093/jas/skac077
- 2020 **Silvers, B.L.**, J.L. Leatherwood, C.E. Arnold, B.D. Nielsen, C.J. Huseman, B.J. Dominguez, K.G. Glass, M.L. Much, R.E. Martinez, and A.N. Bradbery. Effects of aquatic conditioning on cartilage and bone metabolism in young horses. *J. Anim. Sci.* 98(8):skaa239 doi:10.1093/jas/skaa239
- 2020 Much, M.L., J.L. Leatherwood, R.E. Martinez, **B.L. Silvers**, C.F. Basta, L.F. Gray, and A.N. Bradbery. Evaluation of an oral joint supplement on gait kinematics and biomarkers of cartilage metabolism and inflammation in mature riding horses. *Transl. Anim. Sci.* 4(3):txaa150 doi:10.1093/tas/txaa150

Manuscripts currently submitted for publication: n = 2

Manuscripts undergoing internal review prior to submission: n = 3

E. Refereed Abstracts

- Paris, B.L.**, J.L. Leatherwood, T.H. Welsh, Jr., K.G. Glass, C.E. Arnold, M.B. Conrad, J.M. George, R.E. Martinez, A.C. Colbath, B.D. Nielsen, and A.N. Bradbery. 2024. PSVI-12 Clodronate does not impact bone optical density or lameness in juvenile, exercised Quarter Horses. *J. Anim. Sci.* 102 (Suppl. 3):539-540. (Abstr.) doi:10/1093/jas/skae234.605
- Conrad, M.B., J.L. Leatherwood, K.G. Glass, C.E. Arnold, **B.L. Paris**, J.M. George, R.E. Martinez, T.P. Mays, and A.N. Bradbery. 2024. PSV-4 Clodronate re-release in response to controlled exercise and bone stressors in juvenile horses. *J. Anim. Sci.* 102 (Suppl. 3):522-523. (Abstr.) doi:10/1093/jas/skae234.588
- Gualandri, C.R., J.L. Leatherwood, **B.L. Paris**, G.E. Moore, L.R. Pavel, C.E. Arnold, K.G. Glass, P.K. Linne, M.M. Carter, J.M. George, R.E. Martinez, T.A. Wickersham, and A.N. Bradbery. PSIII-11 – Long-term effects of intra-articular lipopolysaccharide on markers of inflammation and cartilage metabolism in young Quarter Horses. *J. Anim. Sci.* 102 (Suppl. 3):497-498. (Abstr.) doi:10/1093/jas/skae234.563
- Pavel, L.R., J.L. Leatherwood, C.R. Gualandri, **B.L. Paris**, C.E. Arnold, K.G. Glass, M.M. Carter, J.M. George, P.K. Linne, R.E. Martinez, G.E. Moore, H. Spooner, and A.N. Bradbery. 2024. PSI-18 – Intra-articular triamcinolone acetonide administration does not affect microbial culture or synovial fluid volume in young, exercising Quarter Horses. *J. Anim. Sci.* 102 (Suppl. 3):483-484. (Abstr.) doi:10/1093/jas/skae234.549

- Paris, B.L.**, J.L. Leatherwood, T.H. Welsh, Jr., C.E. Arnold, K.G. Glass, M.B. Conrad, J.M. George, R.E. Martinez, P.L. Linne, T.P. Mays, A.C. Colbath, B.D. Nielsen, and A.N. Bradbery. 2023. PSVI-8 Bisphosphonate pharmacokinetics in juvenile horses. *J. Anim. Sci.* 101(Suppl. 3):407-408. (Abstr.) doi:10.1093/jas/skad281.484
- George, J.M., J.L. Leatherwood, C.E. Arnold, K.G. Glass, **B.L. Paris**, M.B. Conrad, R.E. Martinez, F.B. Vergara-Hernandez, B.D. Nielsen, A.C. Colbath, T.H. Welsh, Jr., and A.N. Bradbery. 2023. PSIII-8 Extra-label bisphosphonate effects on intra-articular inflammation in juvenile horses challenged with intra-articular lipopolysaccharide. *J. Anim. Sci.* 101(Suppl. 3):379-380. (Abstr.) doi:10.1093/jas/skad281.450
- Paris, B.L.**, J.L. Leatherwood, C.E. Arnold, K.G. Glass, M.B. Conrad, J.M. George, R.E. Martinez, F.B. Vergara-Hernandez, A.C. Colbath, B.D. Nielsen, T.H. Welsh, Jr., and A.N. Bradbery. 2023. 10 Extra-label bisphosphonate effects on bone turnover biomarkers in juvenile, exercising horses. *J. Equine Vet. Sci.* 124:104312. (Abstr.) doi:10.1016/j.jevs.2023.104312
- Blythe, M.K., R.E. Martinez, M.J. Anderson, G.E. Moore, **B.L. Paris**, T.A. Gilcrest, J.M. George, M.M. Carter, K.G. Glass, A.N. Bradbery, J.L. Leatherwood, F.V. Alvarez, M.M. Beverly, S.F. Kelley, and S.A. Norton. 2023. 34 A comparison between computer vision application and body-mounted inertial sensor system for equine gait analysis and lameness quantification. *J. Equine Vet. Sci.* 124:104336. (Abstr.) doi:10.1016/j.jevs.2023.104336
- Blythe, M.K., R.E. Martinez, M.J. Anderson, G.E. Moore, **B.L. Paris**, T.A. Gilcrest, J.M. George, M.M. Carter, A.B. Fontenot, K.G. Glass, A.N. Bradbery, J.L. Leatherwood, M.M. Beverly, S.F. Kelley, and S.A. Norton. 2023. 71 Lameness responses to a single exercise bout following dietary supplementation of *Saccharomyces cerevisiae* fermentation product in young horses. *J. Equine Vet. Sci.* 124:104373. (Abstr.) doi:10.1016/j.jevs.2023.104373
- Carter, M.M., J.L. Leatherwood, **B.L. Paris**, G.E. Moore, J.M. George, T.A. Gilcrest, R.E. Martinez, E. Apper, K.K. Karges, J.R. Cox, C.E. Arnold, A.N. Bradbery, and T.A. Wickersham. 2023. 52 Influence of dietary *Saccharomyces cerevisiae* CNCM I-1077 on the intestinal environment, gut permeability, and markers of systemic inflammation in horses fed a high starch diet. *J. Equine Vet. Sci.* 124:104354. (Abstr.) doi:10.1016/j.jevs.2023.104354
- Conrad, M.B., J.L. Leatherwood, **B.L. Paris**, J.M. George, R.E. Martinez, F.B. Vergara Hernandez, B.D. Nielsen, A.C. Colbath, C.E. Arnold, K.G. Glass, T. Welsh, Jr., and A.N. Bradbery. 2023. 2 Effects of extra-label bisphosphonate use on growth parameters and endocrine markers of bone health in juvenile horses. *J. Equine Vet. Sci.* 124:104304. (Abstr.) doi:10.1016/j.jevs.2023.104304
- Fontenot, A.B., J.L. Leatherwood, **B.L. Paris**, G.E. Moore, M.M. Carter, J.M. George, T.A. Gilcrest, A.N. Bradbery, J.R. Cox, S.A. Norton, and T.A. Wickersham. 2023. 83 Effect of *Saccharomyces cerevisiae* fermentation product on intake and digestion in young horses undergoing exercise training. *J. Equine Vet. Sci.* 124:104385. (Abstr.) doi:10.1016/j.jevs.2023.104385

- George, J.M., J.L. Leatherwood, C.E. Arnold, K.G. Glass, **B.L. Paris**, M.B. Conrad, R.E. Martinez, F.B. Vergara-Hernandez, B.D. Nielsen, A.C. Colbath, T.H. Welsh, Jr., and A.N. Bradbery. 2023. 11 Extra-label bisphosphonate effects on cartilage turnover in juvenile horses challenged with intra-articular lipopolysaccharide. *J. Equine Vet. Sci.* 124:104313. (Abstr.) doi:10.1016/j.jevs.2023.10431
- Gilcrest, T.A., J.L. Leatherwood, **B.L. Paris**, J.M. George, R.E. Martinez, J. Hull, M. Hawkins, C.E. Arnold, A.N. Bradbery, T. Wickersham, and S. McCoski. 2023. 82 Responses to a combined exercise and transport stressor following dietary supplementation of anti endotoxin IgY in mature horses. *J. Equine Vet. Sci.* 124:104384. (Abstr.) doi:10.1016/j.jevs.2023.104384
- Moore, G.E., J.L. Leatherwood, K.G. Glass, C.E. Arnold, **B.L. Paris**, M.M. Carter, J.M. George, A.B. Fontenot, T.A. Gilcrest, M.K. Blythe, R.E. Martinez, S.A. Norton, T.A. Wickersham, and A.N. Bradbery. 2023. 54 Influence of dietary *Saccharomyces cerevisiae* fermentation product on cartilage metabolism in young exercising horses challenged with intra-articular lipopolysaccharide. *J. Equine Vet. Sci.* 124:104356 (Abstr.) doi:10.1016/j.jevs.2023.104356
- Leatherwood, J.L., J. Leise, **B.L. Paris**, J.M. George, R. Martinez, K.G. Glass, and T.A. Wickersham. 2023. 85 Evaluation of an oral supplemental cannabidiol product for acceptability in mature horses. *J. Anim. Sci.* 101(Suppl. 1):62-63. (Abstr.) doi:10.1093/jas/skad068.074
- Martinez, R.E., J.L. Leatherwood, A.N. Bradbery, **B.L. Silvers**, C.J. Hammer, D. Kelley, F.W. Bazer, and G. Wu. 2022. 219 Evaluation of dietary arginine supplementation to increase placental nutrient transporters of aged mares. *J. Anim. Sci.* 100(Suppl. 3):97-98. (Abstr.) doi: 10.1093/jas/skac247.190
- Silvers, B.L.**, J.L. Leatherwood, A.N. Bradbery, C.P. Guy, R.E. Martinez, M.L. Much, J. Keshri, S.C. Dass, S.H. White-Springer. 2021. Forced exercise on gut microbiota and cytokines in young horses. *J. Equine Vet. Sci.* 100:23. (Abstr.) doi: 10.1016/j.jevs.2021.103486
- Silvers, B.L.**, J.L. Leatherwood, B.D. Nielsen, C.E. Arnold, B. Dominguez, K.G. Glass, C.J. Huseman, M.L. Much, R.M. Martinez, and A.N. Bradbery. 2020. Effects of aquatic conditioning on cartilage and bone metabolism in young horses. *Proc. Am. Assoc. Equine Pract.* 66:332-333. (Abstr.)
- Silvers, B.L.**, J.L. Leatherwood, B.D. Nielsen, C.E. Arnold, B. Dominguez, K.G. Glass, C.J. Huseman, M.L. Much, R.M. Martinez, and A.N. Bradbery. 2020. Effects of aquatic conditioning in young horses. I. Markers of inflammation and cartilage metabolism. *J. Anim. Sci.* 98(Suppl. 4):86-87. (Abstr.) doi:10.1093/jas/skaa278.158
- Silvers, B.L.**, J.L. Leatherwood, B.D. Nielsen, C.E. Arnold, B. Dominguez, K.G. Glass, C.J. Huseman, M.L. Much, R.M. Martinez, and A.N. Bradbery. 2020. Effects of aquatic conditioning in young horses. II. Bone metabolism. *J. Anim. Sci.* 98(Suppl. 4):87-88. (Abstr.) doi:10.1093/jas/skaa278.159
- Much, M.L., J.L. Leatherwood, R.E. Martinez, **B.L. Silvers**, C. Basta, L. Gray, and A.N. Bradbery. 2020. Effect of an oral joint supplement on gait kinematics and biomarkers of cartilage metabolism and inflammation in mature riding horses. *J. Anim. Sci.* 98(Suppl. 4):85-86. doi: 10.1093/jas/skaa278.156

Martinez, R.E., J.L. Leatherwood, A.N. Bradbery, M.L. Much, **B.L. Silvers**, E.A. Posey, G.I. Nawaratna, G. Wu. 2020. Equine enterocytes actively oxidize L-glutamine but do not synthesize L-citrulline and L-arginine from L-glutamine or L-proline in vitro. *J. Anim. Sci.* 98(Suppl. 4):90. (Abstr.) doi: 10.1093/jas/skaa278.165

F. Funded Research

- 2024 Welsh, T.H., C. Kerth, J.L. Leatherwood, A.N. Bradbery, and **B.L. Paris**. **Title:** Effects of Bisphosphonate Administration on Synovial Metabolome of Juvenile Horses Challenged with Intra-Articular Lipopolysaccharide. **Source:** Texas A&M AgriLife Research/Equine Institute **Amount:** \$25,000 **Role:** Collaborator
- 2023 **Paris, B.L.**, J.L. Leatherwood, T.H. Welsh, Jr., A.N. Bradbery, K.G. Glass, and C.E. Arnold. **Title:** Multi-dose Clodronate Use on Bone Histomorphology and Cellular Apoptosis in Juvenile Exercising Quarter Horses. **Source:** American Quarter Horse Foundation **Amount:** \$20,000 **Role:** PI
- 2019 **Silvers, B.L.**, J.L. Leatherwood, S.C. Dass, and S.H. White. **Title:** Effects of Forced Exercise on the Equine Microbiota in Young Horses. **Source:** Texas A&M University Department of Animal Science **Amount:** \$10,000 **Role:** PI

G. Teaching Experience

- Spring 2020, 2022, & 2023 Equine Production and Management, Department of Animal Sci.
Fall 2018 – Spring 2020 Lead Riding Instructor, Parsons Mounted Cavalry
Fall 2018 – Fall 2019 Equine Behavior and Training, Department of Animal Sci.

H. Guest Lectures

- January 2023 & 2024 Texas A&M Equine Reproduction Short Course – On Farm Test Kits
Fall '23 – Summer '24 Feeds and Feeding (Texas A&M) – Horse Nutrition and Feeding
Spring 2023 Experimental Design in Agriculture (Tarleton State) – Normality Tests and Normalizing Data

I. Service

- 2025 – Pres. Committee Member – Western National Roundup 4-H Horse Classic – Plan contest, develop contest materials, facilitate contest, and judge
- 2020-2024 Western National Roundup 4-H Horse Classic – Develop contest materials, judge and score keep
- 2024 Accelerate@SAM – Spoke with students regarding digestive physiology, education at SHSU, and the Equine Science program
- 2019-2020 Fort Worth Stock Show – Equine IQ and Prepared Speech contests – Developed contest materials, judged, and managed scoring spreadsheet
- 2019 San Antonio Stock Show Horse Skillathon – Managed scoring spreadsheet
- 2019 American Quarter Horse Association International Seminar – Coordinated logistics and facilitated seminar

J. Awards

- Outstanding Doctoral Student, Department of Animal Science, Texas A&M University, 2024
1st Place – PhD Poster Competition, American Society of Animal Science 2024 Annual Meeting
2nd Place- PhD Poster Competition, American Society of Animal Science 2023 Annual Meeting