

Elizabeth Ann Staiger, MSc, PhD
Elizabeth.Staiger@

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Elizabeth.Staiger@tamuk 61) 593-3699 (o)

2011 Cornell University Center for Vertebrate Genomics Seed Grant. Awarded \$7,000.

Submitted

2020 *Implications of Genetics and Management of the Pregnant Mare on Foal Immunoglobulin G Levels.* American Quarter Horse Foundation, Young Investigator Award. Co-Principle Investigator.

2020 *The Influence of Gene Expression Associated with Changes in 3D Gait Biomechanics of Performance Horses Over Time.* American Quarter Horse Foundation, Young Investigator Award. Co-Principle Investigator.

2020 *Deep Learning-based Image Analysis for Automatic Scoring of Claw Shape and Leg Conformation for Genomic Mapping*, Alabama State Beef Checkoff Grant. Principle Investigator.

2020 *Three-Dimensional Equine Gait Analysis using Computer Vision and Deep Learning for Genomic Mapping.* Morris Animal Foundation. Principle Investigator.

2017 *Landscape Genomics: A New Tool to Characterize the Diversity of Climate Adaptation in African Goats for Sustainable Production.* Cornell University Atkinson Postdoctoral Fellowship in Sustainability. Principle Investigator.

2017 *Unraveling Genetic Pathways for Locomotion.* National Science Foundation. Co-Investigator.

2017 *Technology and Physiology: The Keys to Unlocking the Genetics of Canine Athletic Performance.* Morris Animal Foundation. Co-Principle Investigator.

2017 *A Strong Mind: Identifying the Genetic Mechanisms Underlying Working Dog Behavior for Improved Well-being.* AKC Acorn Research Grant. Co-Principle Investigator.

2017 *Technology and Physiology: The Keys to Unlocking the Genetics of Canine Athletic Performance.* Waltham Foundation Research Grant. Co-Investigator.

2017 *The*

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M.C. Gaspar, F. Araújo, **E.A. Staiger**, K. Martin, M. Vierra, G. Foster, E. Lundquist, S.A. Brooks, L. Patterson Rosa, C. Lafayette. 2021. Las disciplinas deportivas en los caballos de razas de trabajo están asociadas con el alelo A en locus DMRT3. Revista Brasileira de Medicina. doi:

L. Patterson Rosa,

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M.P. Smythe*, S. Dewberry, V. Gupta, N. Niknejad, **E.A. Staiger**, Y. Bao, K. Allen and S.A. Brooks.
Quantifying locomotor phenotypes in the horse with artificial intelligence. Oral and poster presentation at
the Plant and Animal Genome XXIX

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and poster presentation at Plant and Animal Genome XXIV Conference, San Diego, CA. January 9-13, 2016.

L.N. Jacobs*, **E.A. Staiger**

H.J. Lynaugh*, E. Hefner, D. Miller, M. Al-Jabri, J. Gless, R. Singh, M. Bateson, **E.A. Staiger**, S.A. Brooks, E. Buckles, D. Antczak. Targeted SNP testing of horses bearing sarcoid tumors. Poster presentation at Plant and Animal Genome XXIII Conference, San Diego, CA. January 10-14, 2015.

E.A. Staiger*, J.D. Albright, S.A. Brooks. Genome-wide association of temperament variation in Tennessee Walking Horses. Oral and poster presentation at Plant and Animal Genome XXIII Conference,

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E. A. Staiger*. The effect of Rsa1 polymorphism in beta-lactoglobulin gene on milk production in East Friesian sheep. Oral presentation at the 5th Annual Graduate Research in the Biological Sciences Symposium, Stillwater, OK. September 18-19, 2008.

Extension

Ann Staiger. Polymorphic Gait in the Horse: Unlocking the Genetics. Invited speaker at the Alabama Farmers Federation Equine Commodity Organization Meeting, Montgomery, AL. February 5, 2020.

E.A. Staiger and L. Patterson-Rosa. Four-beat gaits in the horse: Unlocking the genetics. Invited speaker at the First UF International Collaborative Mini-Symposium, Gainesville, FL. May 14-16, 2019.

K. Davis, E. Long, M. McCarthy, C. Stice, **A. Staiger**, M. Valentine.
the Expanding Your Horizons Conference, Ithaca, NY. April 12, 2014.

Ann Staiger. Gait in the Horse: Unlocking the Genetics. Invited speaker at Campolina Cavalo Nationals Competition, Belo Horizonte, MG, Brazil. September 1-8, 2013.

K. Davis, M. McCarthy, C. Stice, **A. Staiger**
4-H Career Explorations Conference, Ithaca, NY. June 25-26, 2013.

Ann Staiger
program, Ithaca, NY. May 4, 2013.

4H Animal Crackers

K. Davis, M. McCarthy, C. Stice, **A. Staiger**
Horizons Conference, Ithaca, NY. April 20, 2013.

Ann Staiger. Gait in the Horse: Unlocking the Genetics. Invited speaker at the 33rd National Mangalarga Marchador Competition, Belo Horizonte, MG, Brazil. July 20-29, 2012.

Ann Staiger. Genetic Studies of Gait: Why do horses pace? Invited speaker at the NY Regional

Graduate Students

Jessica Caro, MS in Animal Sciences, Auburn University, 2020-present (Major Advisor)

Nariman Niknejad, MS in Biosystems Engineering, 2021-present (Committee Member)

Vinika Gupta, MS in Computer Sciences, Auburn University, 2020-2021

Attended Cornell University Responsible Conduct of Research workshop *Center for Open Science Training*, November 28 - 29, 2018.

Attended Cornell University GET SET workshop *Integrating Technology into Your Classes*, October 29, 2018.

Attended Cornell University BRC Bioinformatics workshop series *RNA-Seq Data Analysis*, October 24 - November 7, 2018.

Attended Cornell University GET SET U-wide Teaching Conference, October 20, 2018.

Attended Cornell University OSP workshop *How to Write a Successful NSF Career Proposal*, May 18, 2018.

Attended Cornell University Faculty Development and Diversity workshop *How to Write a Successful NIH Grant*, April 16, 2018.

Attended Cornell University CITRL workshop series *Building Mentoring Skills for an Academic Career*, January 30 - March 27, 2018.

Professional Memberships and Service

American Society of Animal Science, 2007 - present

Equine Science Society, 2010 - present

International Society for Animal Genetics, 2011 - present

North American Colleges and Teachers of Agriculture, 2020 - present

Tennessee Walking Horse Breeders and Exhibitors Association, member 2000 - present

National Walking Horse Association, member 2001 - present

2021

Ad-hoc reviewer for scientific journals, 2012 - present

Journal of Heredity; Animal Genetics; Journal of Dairy Science; Journal of Animal Science; Journal of Equine Veterinary Science; Canadian Journal of Animal Science; Journal of Animal Breeding and Genetics; PLOS ONE; Equine Veterinary Journal, Animals

Guest editor, Animals (ISSN 2076-2615), 2022

Departmental Service

2020-2021 Curriculum Committee, Auburn University

2020-2021 Webpage/Social Media Committee, Auburn University

2020 Equipment Committee, Auburn University

2020-2021

2020-2021 Advisor for Block & Bride Club, Auburn University

2020 Equine Lecturer position search committee member, Auburn University

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2020 Instructional Technology Equipment committee member, Auburn University
2021 Graduate Program Committee, Auburn University
2021 Social Committee, Auburn University

University Service

2020-2021 College of Agriculture Instructional Advisory Committee, Auburn University

National Service

2019-2021 Auburn representative on the NSPR8 project

2019-2021 Auburn representative on the S1086 Enhancing sustainability of

Honors and Awards

Everingham Award, Cornell University, 2014 (Teaching award)

Equine Science Society Graduate Student Genetics competition 2011, 1st place

Animal Science Graduate Student Association, Treasurer, OSU & Cornell

Alpha Zeta, OSU (Professional Agriculture Fraternity)

Phi Eta Sigma, OSU (National Honor Society, College Freshmen)

Iota Kappa, OSU (National Honor Society, College Sophomore)

National Society of Collegiate Scholars

OSU Residence Hall Government, Treasurer and Philanthropy Committee Chair