

Amy Abrams

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Berry College
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Education

South Dakota State University, Brookings, SD

Graduated 2019

- Ph.D. Animal Science: Animal Breeding and Genetics
- Advisor: Dr. Michael Gonda
- Dissertation: Integration of Molecular Techniques for the Investigation of Bovine Respiratory Disease

University of Wyoming, Laramie, WY

Graduated 2016

- M.S. Animal Science: Animal Breeding and Genetics
- Advisor: Dr. Kristi Cammack
- Thesis: Altered rumen microbial populations in response to high sulfate water in lambs

California State University, Chico, CA

Graduated 2012

- B.S. Animal Science
- Minor in Agriculture Business

Professional Experience

Assistant Professor: 2019 – Present

Berry College, Mount Berry, GA

- Teaching courses and their corresponding labs in the Department of Animal Science, including Introduction to Animal Science, Orientation to Animal Science, Anatomy and Physiology, and Dairy Systems and Management. Research focuses on the area of rumen physiology.

Graduate Research Assistant: 2016 – 2019

Animal Breeding & Genetics Laboratory, South Dakota State University, Brookings

- Scholarship of teaching and learning (SOTL): Implementing a classroom assessment technique to improve student engagement, communication, and performance in an introductory animal science laboratory course
- Developing genetic markers for susceptibility to Bovine Respiratory Disease Complex in collaboration with researchers at the USDA-ARS-Meat Animal Research Center (MARC)
- Evaluating microbial communities associated with bovine respiratory disease prior to weaning in collaboration with USDA-ARS-MARC
- Evaluating accuracy of DNA pool construction based on white blood cell counts in collaboration with USDA-ARS-MARC

Graduate Research Assistant: 2015 - 2016

Animal Breeding & Genetics Laboratory, University of Wyoming, Laramie

- Determining effects of dietary sulfur on lamb performance and the rumen microbiome

- Altering feed efficiency in growing lambs through rumen fluid inoculation at birth

Laboratory Technician: 2013 - 2014

Denele Analytical, Inc., Woodland, CA

Teaching Experience

Berry College

Classes Taught:

- ANS 120: Introduction to Animal Science
- ANS 120L: Introduction to Animal Science Lab
- ANS 201: Orientation to Animal Science
- ANS 326L: Anatomy and Physiology Lab
- ANS 423: Dairy System and Management
- ANS 423L: Dairy System and Management Lab

South Dakota State University

Graduate Teaching Assistant:

- AS 101: Introduction to Animal Science Lab
- AS 474: Cow/Calf Management
- Guest lecture AS 332: Livestock Breeding and Genetics
- Guest lecture AS 101: Introduction to Animal Science

University of Wyoming

Graduate Teaching Assistant:

- ANSC 4130: Management of Reproduction
- LIFE 1002: Discovering Science

Publications

Abstracts

- **Abrams, A.N.**, K.M. Zeamer, R.A. Nold, and M.G. Gonda. 2018. Do classroom assessment techniques improve student learning in an introductory animal science laboratory course? American Society of Animal Science National Meeting. Austin, Texas. July 8-11, 2019.
- **Abrams, A.N.**, J.K. Keele, T.G. McDanel, C.G. Chitko-McKown, M.G. Gonda, and L.A. Kuehn. 2019. Evaluating accuracy of DNA pool construction based on white blood cell counts versus two common DNA quantification methods. International Plant and Animal Genome Meeting XXVII. San Diego, California. January 12-17, 2019.
- **Abrams, A.N.**, R.A. Nold, and M.G. Gonda. 2018. Implementing a classroom assessment technique to improve student engagement, communication, and performance in an introductory animal science laboratory course. American Society of Animal Science National Meeting. Vancouver, Canada. July 8-12, 2018.

- **Abrams, A.N.**, R.A. Nold, and M.G. Gonda. 2018. Use of formative assessment methods to improve student perception and performance in an introductory animal science laboratory course. Midwest Section American Society of Animal Science. Omaha, Nebraska. March 11-15, 2018.
- **Abrams, A. N.**, K. J. Austin, M. J. Ellison, H. C. Cunningham, G. Conant, W. R. Lamberson, T. Taxis, and K. M. Cammack. 2016. Effect of high sulfate water on rumen microbial populations in lambs. International Plant and Animal Genome Meeting XXIV. San Diego, California. January 9-13, 2016. P0607.
- Powell, S., **A. N. Abrams**, K. J. Austin, M. J. Ellison, H. C. Cunningham, G. Conant, W. R. Lamberson, T. M. Taxis, E. A. Van Kirk, D. C. Rule, and K. M. Cammack. 2016. High sulfate water affects volatile fatty acid profiles in lambs. International Plant and Animal Genome Meeting XXIV. San Diego, California. January 9-13, 2016. P0608.
- **Abrams, A. N.**, K. J. Austin, M. J. Ellison, H. C. Cunningham, G. Conant, W. R. Lamberson, T. Taxis, and K. M. Cammack. 2015. High sulfate water affects rumen microbial populations in lambs. High Plains Nutrition and Management Roundtable, Lingle, Wyoming. September 10, 2015.

Proceedings Papers

- **Abrams, A.N.**, C. J. Clarkson, K. J. Austin, M. J. Ellison, H. C. Cunningham, G. C. Conant, W. R. Lamberson, T. M. Taxis, and K. M. Cammack. 2016. Altered rumen microbial populations in response to high sulfate water in lambs. (Proc. West. Sect. Amer. Soc. Anim. Sci.) Salt Lake City, Utah. July 2016.
- Clarkson, C. J., **A. N. Abrams**, K. J. Austin, M. J. Ellison, H. C. Cunningham, G. C. Conant, W. R. Lamberson, T. M. Taxis, and K. M. Cammack. Effect of high sulfate water on rumen microbial populations in lambs. (Proc. West. Sect. Amer. Soc. Anim. Sci.) Ruidoso, NM. June 2015.

Other Publications

- **Abrams, A.N.**, K.J. Austin, and K.M. Cammack. 2016. Rumen Microbes Associated with Response to High-Sulfate Drinking Water in Lambs. WAES 2016 Field Days Bulletin.

Conferences, Presentations, and Workshops

Oral Presentation at 2019 American Society of Animal Science (ASAS) – Canadian Society of Animal Science National Meeting

Austin, Texas
July 8-11, 2018

Poster presentation at 2019 Plant and Animal Genome Meeting XXVII

San Diego, California
January 12-16, 2019

Oral Presentation at 2018 American Society of Animal Science (ASAS) – Canadian Society of Animal Science National Meeting

Vancouver, Canada
July 8-12, 2018

Poster Presentation at 2018 Midwest Section ASAS Meeting

Omaha, Nebraska

March 11-15, 2018

Attended Iowa State University Animal Breeding and Genetics Short Course

Introduction to Graphical Models with Applications to Quantitative Genetics and Genomics

Ames, Iowa

June 19-23, 2017

Attended King Ranch Institute Lectureship

Application of Advanced Genetic Technology in Beef Cattle

Rapid City, South Dakota

May 11-12, 2017

Attended 2017 Midwest Section ASAS Meeting

Omaha, Nebraska

March 12-16, 2017

Oral Presentation at 2016 ASAS Joint Annual Meeting

Salt Lake City, Utah

July 19- 23, 2016

Attended 2016 Rocky Mountain Reproductive Sciences Symposium

Loveland, Colorado

April 22, 2016

Poster presentation at 2016 Plant and Animal Genome Meeting XXIV

San Diego, California

January 9-13, 2016

Poster presentation at the 2015 High Plains Nutrition & Management Roundtable

Lingle, Wyoming

September 10, 2015

Poster presentation at the 2015 Western Section ASAS Meeting

Ruidoso, New Mexico

June 23-26, 2015

Attended 2014 Applied Reproductive Strategies in Beef Cattle Conference

Stillwater, Oklahoma

October 8-9, 2014

Professional Affiliations

American Society of Animal Science

Accomplishments and Awards

- Graduate Teaching Certificate of Highest Excellence, South Dakota State University (2019)
- South Dakota State University Barry H. Dunn Outstanding Animal Science Graduate Student Award (2018)
- Graduate Teaching Certificate of Excellence, South Dakota State University (2018)
- American Society of Animal Science Wester Section Young Scholar Award Recipient (2016)
- Gamma Sigma Delta Honor Society University of Wyoming Chapter Outstanding Animal and Veterinary Science Mater's Student (2016)

Institutional Service

2020-2021

- Student Life Council
- House Advisor for Year of Service Project
- College of Math and Natural Sciences Research Committee

2019-2020

- Discover Berry
- Department of Animal Science Scholarship Committee
- Station Coordinator for Southern Section of the American Society of Animal Science Academic Quadrathlon