

CURRICULUM VITAE

University of Idaho

NAME: Gwinyai E. Chibisa

DATE: December 04, 2018

RANK OR TITLE: Assistant Professor

DEPARTMENT: Animal and Veterinary Science

OFFICE LOCATION AND CAMPUS ZIP: 212 Ag Science

OFFICE PHONE: 208-885-7074

FAX: 208-885-6420

EMAIL: gchibisa@uidaho.edu

WEB:

DATE OF FIRST EMPLOYMENT AT UI: August 03, 2015

DATE OF TENURE: Untenured

DATE OF PRESENT RANK OR TITLE: August 03, 2015

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Ph.D., Animal Science	University of Saskatchewan, Saskatoon, SK, Canada, 2013
M.Sc., Animal Science	University of Saskatchewan, Saskatoon, SK, Canada, 2008
B.Sc. (Hons), Agriculture	University of Zimbabwe, Harare, Zimbabwe, 2005

Certificates and Licenses:

EXPERIENCE:

Teaching, Extension and Research Appointments:

2013 – 2015	Natural Sciences and Engineering Research Council of Canada (NSERC) Post-doctoral Visiting Fellow, Lethbridge Research Centre, AB, Canada
2005 – 2013	Graduate Research Assistant, Department of Animal and Poultry Science, University of Saskatchewan, Saskatoon, SK, Canada
2003	Intern (Plant Breeding), Rattray-Arnold Research Station (Seed Co Limited), Harare, Zimbabwe

Academic Administrative Appointments:

Non-Academic Employment including Armed Forces:

2004	Intern (Dairy Processing), Dairibord Zimbabwe Limited, Mutare, Zimbabwe
------	---

Consulting:

TEACHING ACCOMPLISHMENTS:**Areas of Specialization:** Animal Nutrition and Metabolism**Courses Taught:**

Fall 2017 – Present	Co-Instructor for Macronutrient Metabolism (AVS 517; 3 credits), Department of Animal and Veterinary Science, University of Idaho, Moscow, ID, USA
Spring 2016 – Present	Co-Instructor and Coordinator for Beef Cattle Science (AVS 474; 3 credits), Department of Animal and Veterinary Science, University of Idaho, Moscow, ID, USA
Spring 2016 – Present	Guest-Instructor for Feeds and Ration Formulation (AVS 306; 4 credits), Department of Animal and Veterinary Science, University of Idaho, Moscow, ID, USA
Spring 2016 – Present	Guest-Instructor for Issues in Animal Agriculture (AVS 450; 1 credit), Department of Animal and Veterinary Science, University of Idaho, Moscow, ID, USA
Fall 2016 – Present	Guest-Instructor for Peoples of the World (ANTH 212; 3 credits), Department of Animal and Veterinary Science, University of Idaho, Moscow, ID, USA
Fall 2015 – Present	Co-Instructor for Animal Nutrition (AVS 305; 3 credits), Department of Animal and Veterinary Science, University of Idaho, Moscow, ID, USA
2008, 2009, 2012	Teaching and Laboratory Assistant for Animal and Poultry Nutrition (ANSC 315; 3 credits), Department of Animal and Poultry Science, University of Saskatchewan, Saskatoon, SK, Canada
2009, 2010, 2012	Laboratory Assistant for Agricultural Science II (AGRIC 112; 3 credits), Department of Animal and Poultry Science, University of Saskatchewan, Saskatoon, SK, Canada

Students Advised:***Current Graduate Students:***

1. James Vinyard (M.S. student; August 2016 – Present)
2. Allison Stevens (M.S. student; May 2017 – Present)

Graduate Student Committees:

1. Haley Peterson (M.S. student; February 2016 – December 2016)
2. Breann Sandberg (M.S. student; September 2016 – May 2017)
3. Willmore Carmen (Ph.D. student; April 2016 – Present)
4. Dana McCurdy (M.S. student; December 2016 – Present)
5. Maggie Reynolds (M.Sc. student; September 2016 – Present)
6. Hao-Che Hung (M.Sc. student; September 2016 – Present)
7. Gregory Chingala (Ph.D. student at Stellenbosch University, South Africa; November 2017 – Present)

Materials Developed:**Courses Developed:**

Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:**Honors and Awards:****SCHOLARSHIP ACCOMPLISHMENTS:****Publications, Exhibitions, Performances, Recitals:****Refereed/Adjudicated:****Peer Reviewed/Evaluated:**

- R. L. Dong, **G. E. Chibisa**, and K. A. Beauchemin. 2018. Estimating optimal observational sampling frequency of behaviors for cattle fed high and low forage diets. *J. Anim. Sci.* (In press).
- Jancewicz, L. J., M. Swift, G. Penner, K. Beauchemin, K. Koenig, **G. E. Chibisa**, M. He, J. McKinnon, W. Yang, and T. McAllister. 2017. Development of NIRS calibrations to estimate fecal composition and nutrient digestibility in beef cattle. *Can. J. Anim. Sci.* 97(1):51-64.
- Chibisa, G. E.**, K. A. Beauchemin, and Penner, G. B. 2016. Relative contribution of ruminal buffering systems to pH regulation in feedlot cattle fed either low- or high-forage diets. *Animal*. 10:1164-1172.
- Górka, P., E. Castillo-Lopez, F. Joy, **G. E. Chibisa**, J. J. McKinnon, and G.B. Penner. 2015. Effect of including high-lipid by-product pellets in substitution for barley grain and canola meal in finishing diets for beef cattle on rumen fermentation and nutrient digestibility. *J. Anim. Sci.* 93:4891-4902.
- Chibisa, G. E.**, P. Gorka, G. B. Penner, R. Berthiaume, and Mutsvangwa, T. 2015. Effects of partial replacement of dietary starch from barley or corn with lactose on ruminal function, short-chain fatty acid absorption, nitrogen utilization, and production performance of dairy cows. *J. Dairy Sci.* 98:2627 – 2640.
- Chibisa, G. E.**, and Mutsvangwa, T. 2013. Effects of feeding wheat or corn-wheat dried distillers grains with solubles in low or high crude protein diets on ruminal function, omasal nutrient flows, urea-N recycling, and performance in cows. *J. Dairy Sci.* 96: 6550 – 6563.
- Chibisa, G. E.**, D. A. Christensen and T. Mutsvangwa. 2013. Replacing canola meal as the major protein source with wheat dried distillers grains alters omasal fatty acid flow and milk fat composition in dairy cows. *Can. J. Anim. Sci.* 93: 137 – 147.
- Chibisa, G. E.**, D. A. Christensen and T. Mutsvangwa. 2012. Effects of replacing canola meal as the major protein source with wheat dried distillers grains with solubles on ruminal function, microbial protein synthesis, omasal flow, and milk production in cows. *J. Dairy Sci.* 94 (8): 3913 – 3927.
- Chibisa, G. E.**, G. N. Gozho, and T. Mutsvangwa. 2009. Effects of peripartum propylene glycol supplementation on microbial protein production in transition dairy cows. *Can. J. Anim. Sci.* 89 (3): 419 – 423.
- Chibisa, G. E.**, G. N. Gozho, A. G. Van Kessel, A. A. Olkowski, and T. Mutsvangwa. 2008. Effects of peripartum propylene glycol supplementation on nitrogen metabolism, body composition, and gene expression for the major protein degradation pathways in skeletal muscle in dairy cows. *J. Dairy Sci.* 91 (9): 3512 – 3527.

Abstracts

- Chibisa, G. E.,** J. R. Vinyard, and A. H. Laarman. 2017. Effects of meloxicam administration on nitrogen metabolism and growth performance in transported Jersey calves. *J. Dairy Sci.* 100:273.
- J. R. Vinyard, J. B. Hall, J. E. Sprinkle and **G. E. Chibisa.** 2017. Effects of feeding *Eragrostis tef* hay harvested at different stages of maturity on nutrient intake, ruminal fermentation, and nitrogen utilization in beef cattle. *J. Anim. Sci.* 95:137. doi:10.2527/asasann.2017.276
- McCurdy, D. E., C. J. Watts, **G. E. Chibisa,** T. Prather, A. H. Laarman. 2017. Feed processing affects palatability of venterata-infested grass hay. *Anim. Sci.* 95:146. doi:10.2527/asasann.2017.295
- McCurdy, D. E., C. J. Watts, **G. E. Chibisa,** T. Prather, A. H. Laarman. 2017. Feed processing affects palatability of venterata-infested grass hay. Official Proceedings of the 52nd Pacific Northwest Animal Nutrition Conference. Page 70.
- C. A. Myers, G. Shewmaker, R. Findlay, R. Roemer, J. Sagers, J. Hogge, and **G. E. Chibisa.** 2017. The Nutritive Value of Alfalfa Varieties Grown at Two Different Elevations in Idaho, Idaho Conference on Undergraduate Research, http://scholarworks.boisestate.edu/icur/2017/Poster_Session/129/
- Chibisa, G. E.,** and K. A. Beauchemin. 2016. Use of short season hybrids may enable greater use of corn silage in Western Canadian feedlot diets without decreasing animal performance. *J. Anim. Sci.* 94 (E-Suppl. 5):687 (abstract)
- Chibisa, G. E.,** G. B. Penner, and K. A. Beauchemin. 2014. Saliva production and short-chain fatty acid absorption in beef cattle fed a low- or high-forage diet. *J. Dairy Sci.* 97(E-Suppl. 1):769 (abstract).
- Koenig, K. M., **G. E. Chibisa,** G. B. Penner, and K. A. Beauchemin. 2014. Effect of forage intake to minimize the risk of subacute ruminal acidosis on performance of feedlot finishing cattle. *J. Dairy Sci.* 97(E-Suppl. 1):769 (abstract).
- Walpole, M. E., **G. E. Chibisa,** and T. Mutsvangwa. 2014. Effect of inclusion of canola meal or wheat dried distillers grains with solubles on ruminal fermentation, omasal nutrient flow, and production performance in lactating Holstein dairy cows fed two levels of forage. *J. Dairy Sci.* 97(E-Suppl. 1):788 (abstract).
- Chibisa, G. E.,** G. B. Penner, P. Gorka, R. Berthiaume, and T. Mutsvangwa. 2012. Effects of partial replacement of dietary starch from barley or corn with lactose on the performance of dairy cows. *J. Dairy Sci.* 95(Suppl. 2):176 (abstract).
- Chibisa, G. E.,** D. A. Christensen, and T. Mutsvangwa. 2010. Effect of replacing canola meal with wheat-based dried distillers grains with solubles on ruminal fermentation, microbial nitrogen supply and milk production in dairy cows. *J. Dairy Sci.* 93(E-Suppl. 1):576 (abstract).
- Chibisa, G. E.,** T. Mutsvangwa, A. G. Van Kessel, A. A. Olkowski, and G. N. Gozho. 2008. Effect of propylene glycol administration on protein catabolism in transition dairy cows. *Can. J. Anim. Sci.* 88(1):144 (abstract).
- Chibisa, G. E.,** G.B. Penner, G.N. Gozho, and T. Mutsvangwa. 2007. Urinary creatinine concentration during the periparturient period and the effect of correcting urinary creatinine concentration for DM content on the ability to predict urinary output. *J. Dairy Sci.* 90(Suppl. 1): 565(abstract).

Conference proceedings

Chibisa, G. E., 2017. Enhancing the efficiency of nutrient utilization in cattle. Official Proceedings of the 52nd Pacific Northwest Animal Nutrition Conference. Page 62 - 69.

McCurdy, D. E., C. J. Watts, **G. E. Chibisa**, T. Prather, A. H. Laarman. 2017. Feed processing affects palatability of venterata-infested grass hay. Official Proceedings of the 52nd Pacific Northwest Animal Nutrition Conference. Page 70.

Chibisa, G. E., G. B. Penner, P. Gorka, T. Mutsvangwa, and R. Berthiaume. 2013. Effects of feeding dry- or steam-rolled barley or corn in diets containing lactose on the performance of dairy cows. 2013 Canadian Society of Animal Science (CSAS)-Canadian Meat Science Association (CMSA) Joint Meeting. June 18th – 20th. Banff, AB.

Gorka, P., F. Joy, **G. E. Chibisa**, and G. B. Penner. 2013. Replacement of dietary starch with strategically blended byproduct pellets for beef cattle. 2013. Canadian Society of Animal Science (CSAS)-Canadian Meat Science Association (CMSA) Joint Meeting. June 18th – 20th. Banff, AB.

Chibisa, G. E., D. A. Christensen and T. Mutsvangwa. 2010. Effects of inclusion of wheat-based dried distillers grains with solubles in dairy rations on omasal fatty acid flow and milk fatty acid composition. Western Nutrition Conference, Sept 21st – 23rd. Saskatoon, SK.

Chibisa, G. E., Mutsvangwa, T., Van Kessel, A.G., Olkowski, A.A., and Gozho, G.N. 2007. Effect of propylene glycol administration on protein catabolism in transition dairy cows. Canadian Nutrition Congress, June 18th – 21st. Winnipeg, MB.

Refereed/Adjudicated (currently scheduled or submitted):**Peer Reviewed/Evaluated (currently scheduled or submitted):**

G. E. Chibisa, J. R. Vinyard, and A. H. Laarman. 2018. Effects of meloxicam administration on protein metabolism and growth performance in transported Jersey calves. *J. Dairy Sci.* (under review)

Vinyard, J. R., J. B. Hall, J. E. Sprinkle, and **G. E. Chibisa**. 2018. Effects of maturity at harvest on the nutritive value of *Eragrostis tef* (Moxie) when fed to beef cattle. *J. Anim. Sci.* (under review)

Chibisa, G. E., and K. A. Beauchemin. 2018. Effects of feeding corn silage from short-season hybrids and extending the backgrounding period on production performance and carcass traits of beef cattle. *J. Anim. Sci.* (under review)

Presentations and Other Creative Activities:

Invited speaker at the 52nd Pacific Northwest Animal Nutrition Conference. January 18th – 19th, 2017. Richland, Washington.

Invited speaker at the Institute of Animal Nutrition and Functional Plant Compounds, University of Veterinary Medicine, Vienna. Austria. August 2nd, 2017.

Professional Meeting Papers, Workshops, Showings, Recitals:

Patents:**Grants and Contracts Awarded:**

Stress and cellular protein metabolism in production animals. PI: Gwinyai E. Chibisa. UI Office of Research & Economic Development, FY2017: \$11,934

Impact of "Excell" on rumen fermentation and health" Co-PI: Gwinyai E. Chibisa and A. H. Laarman. Pacer Technologies Inc. FY2017: \$17,044

Revitalizing calf research through upgrading housing facilities" Co-PI: Gwinyai E. Chibisa and A. H. Laarman. UI Office of Research and Economic Development. FY2017: \$7,811

Effect of feeding grape pomace in finishing cattle diets on the fatty acid composition of beef. PI: Gwinyai E. Chibisa. Mary A. Turner AVS Livestock Research Endowment. FY2017: \$4,761

The effects of transport-related stress in young calves on body protein metabolism. Undergraduate Student PI: Cheyanne Meyers, Co-PI: Gwinyai E. Chibisa, UI Office of Undergraduate Research, Spring 2018: \$1,000

The nutritive value of teff grass as cattle feed. Undergraduate Student PI: Glory Santillanes, Co-PI: Gwinyai E. Chibisa, UI Office of Undergraduate Research, Spring 2018: \$975

The Effect of feeding grape pomace in finishing cattle diets on the fatty acid composition of beef. Undergraduate Student PI: Frances Arend, Co-PI: Gwinyai E. Chibisa, UI Office of Undergraduate Research, Spring 2018: \$925

The promise of grape pomace as a possible alternative feed source. Undergraduate Student PI: Bridgette Rogers, Co-PI: Gwinyai E. Chibisa, UI Office of Undergraduate Research, Spring 2018: \$975)

Ruminal escape and intestinal digestibility of ruminally protected amino acid supplements and high by-pass protein feedstuffs commonly used in dairy cattle diets. PI: Gwinyai E. Chibisa, Collaborators: Pedram Rezamand and Anne H. Laarman, H.J. Baker & Bro., Inc., FY2017: \$64,670

Investigating palatability of invasive grass species *Ventenata (Ventenata dubia)* in Idaho range livestock. PI: Anne H. Laarman, Collaborators: Gwinyai E. Chibisa, Timothy Prather and Beverly Shirts, UI Rangeland Center, FY2016: \$8,545

The nutritive value of alfalfa varieties grown at two different elevations in Idaho. Undergraduate Student PI: Cheyanne Meyers, Co-PI: Gwinyai E. Chibisa, UI Office of Undergraduate Research, Spring 2016: \$999

Honors and Awards:

2012 Miriam Green Ellis Scholarship Fund. College of Agriculture and Bioresources. University of Saskatchewan, Saskatoon, SK, Canada

2010, 2012 University of Saskatchewan Student Travel Award. University of Saskatchewan, Saskatoon, SK, Canada

2010 – 2011 Rene Vandeveld Postgraduate Scholarship. College of Agriculture and Bioresources. University of Saskatchewan, Saskatoon, SK, Canada

- 2010 Canadian Society of Animal Science (CSAS) Student Travel Fellowship
- 2010 Land O'Lakes Purina Feed LLC Scholarship. Distillers Grains Technology Council (DGTC)
- 2008 – 2009 University of Saskatchewan Graduate Teaching Fellowship, Department of Animal and Poultry Science. University of Saskatchewan, Saskatoon, SK, Canada
- 2008 Dairy Farmers of Saskatchewan Scholarship. Department of Animal and Poultry Science. University of Saskatchewan, Saskatoon, SK, Canada
- 2005 – 2007 University of Saskatchewan Devolved Scholarship, College of Graduate Studies and Research. University of Saskatchewan, Saskatoon, SK, Canada
- 2005 Zimbabwe Academy of Sciences Life Sciences Award, Harare, Zimbabwe
- 2003, 2004 University of Zimbabwe Book Prize, University of Zimbabwe, Harare, Zimbabwe

SERVICE:**Major Committee Assignments:**

College of Agriculture and Life Sciences Faculty Promotion & Tenure Committee (3-year term), September 2016 – present

Department of Animal and Veterinary Sciences Curriculum Committee, June 2016 – June 2017

Professional and Scholarly Organizations:

Member, American Society of Animal Science (ASAS), 2016 – present.

Member, American Registry of Professional Animal Science (ARPAS), 2016 – present.

Member, Canadian Society of Animal Science (CSAS), 2006 – present.

Member, American Dairy Science Association (ADSA), 2006 – present.

Member, International Association of Students in Agricultural and Related Sciences (IAAS), 2002 – 2005.

Ad-hoc Reviewer (Journals & Grants)

Journals: Animal, Canadian Journal of Animal Science, Frontier Microbiology, Journal of Animal Science, Journal of Dairy Science, Journal of the Science of Food and Agriculture, Poultry Science, South African Journal of Animal Science

Grants: Alberta Livestock and Meat Agency, National Research Foundation of South Africa, The Ohio State University SEEDS program (Ohio Agricultural Research and Development Center (OARDC))

Outreach Service:**Community Service:****Honors and Awards:****PROFESSIONAL DEVELOPMENT:****Teaching:**

- 2017 UI Center for Excellence in Teaching and Learning Teaching Workshops on “Enhancing Student Success with High-Impact Practices” (September 11th), “Leading Effective Discussions” (September 28th), “Classroom and Learning Assessment Techniques” (October 16th) and “Teaching Large Classes” (November 3rd)
- 2016 UI Teaching Workshop on “Flipped Classroom: Strategies to Overcome Resistance and Increase Student Engagement” (October 18th), and “Student Engagement Strategies” (November 9th)
- 2016 UI 13th Annual Advising Symposium (September 16th)
- 2016 UI New Faculty Breakfast Meeting on “Advising and Mentoring” (April 7th)
- 2009 – 2010 Philosophy and Practice of University Teaching, The Gwenna Moss Centre for Teaching Effectiveness, University of Saskatchewan – an 8-month course on the philosophy and best practices of teaching, instructing and communicating.
- 2007, 2008 Orientation to University Teaching and Learning, The Gwenna Moss Centre for Teaching Effectiveness, University of Saskatchewan (2007, 2008) – a series of workshops aimed at providing basic training on teaching practices.

Scholarship:

- 2017 American Society of Animal Science (ASAS) and Canadian Society of Animal Science (CSAS) joint meeting (July 8th – 12th)
- 2017 American Dairy Science Association (ADSA) meeting (June 25th – 28th)
- 2017 Idaho Beef Council Meeting (May 18th)
- 2017 UI CALS SAS (PROC GLM, MIXED, GLIMMIX) workshop (March 28th)
- 2017 Idaho Wheat Council Meeting (February 27th)
- 2017 Northern Pulse Growers and US Dryland Pea and Lentil Council Meeting (February 14th)
- 2017 Pacific Northwest Animal Nutrition Conference (January 18th – 19th)
- 2016 North Idaho Forage and Grazing School (November 2nd)
- 2016 ASAS-ADSA-CSAS-WSASAS Joint Annual Meeting (July 19th – 23rd)
- 2016 Idaho Beef Council Meeting (June 9th)

- 2016 US Grain Council and Agriculture Agri-Food Canada Meeting (March 16th)
- 2016 Pacific Northwest Animal Nutrition Conference (January 18th – 19th)
- 2015 Washington State University “Writing Winning Grant” Seminar (October 15th)

Outreach:

Administration/Management:

- 2012 Foundations of Project Management I and II; The Art, Science, and Practice of Positive Networking, Mitacs Canada Step Program – a series of workshops geared towards providing business-ready skills for researchers.
- 2011 Thinking Critically – Professional Skills for Global Citizens, The Gwenna Moss Centre for Teaching Effectiveness, University of Saskatchewan – a 2-month course designed to help develop creative and critical thinking skills.
- 2010 The Presidents’ Leadership Program, Johnson Shoyama Graduate School of Public Policy, University of Saskatchewan – a 6-week program focused on community engagement and public policy, and providing opportunities for development of leadership skills.