

Harouna A. Maiga, Ph.D.

CURRICULUM VITAE

IDENTIFYING INFORMATION

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Academic Rank

Professor of Animal Science
Agriculture and Natural Resources Department
University of Minnesota, Crookston Campus (UMC)

Education

Degree	Institution	Date Degree Granted
Ph.D.	South Dakota State University Brookings, SD Animal Sciences (Dairy Nutrition) (Dr. David Schingoethe, Advisor)	1994
M.S.	South Dakota State University Brookings, SD Economics (Ag Economics)	1994
M.S.	University of Maine, Orono, ME Animal Sciences	1986
B.S.	Polytechnic Rural Institute of Katibougou, Mali Animal Sciences	1979

Positions/Employment

Distinguished Professor Animal Sciences Agriculture and Natural Resources Department, UMC	7/1/2019 - Present
Department Head and Professor Agriculture and Natural Resources Department, UMC	6/2016- 6/30/2019
Interim Department Head and Professor Agriculture and Natural Resources Department, UMC	8/2015 - 6/2016
Professor Agriculture and Natural Resources Department, UMC	8/2012 – 8/2015
Associate Professor Agriculture and Natural Resources Department, UMC	1/2001- 8/2011
Associate Professor and Extension Educator Becker County, MN University of Minnesota Extension Service	8/1996 – Dec 2000
Nutritionist and Herd Health Management Joe. L. Pires & Co. Dairy (1,200 Cows), Brookings, SD	1996
Postdoctoral Research Associate in Animal Sciences South Dakota State University, Brookings, SD	1994-1996
Graduate Research Assistant South Dakota State University, Brookings, SD	1990-1994
Livestock Extension Specialist - Studies, Surveys, Implementation and Evaluation of Livestock Development Projects The Malian Livestock Production and Meat Office (OMBEVI), Bamako, Mali	1986-1998
Graduate Research Assistant in Animal Sciences University of Maine, Orono, ME	1984 - 1986
Livestock Extension Specialist - Studies, Surveys, Implementation and Evaluation of Livestock Development projects The Malian Livestock Production and Meat Office (OMBEVI), Bamako, Mali	1980-1983

Professional/Leadership Experience

Responsibilities as Department Head

- Lead the department in a manner consistent with the principles of shared governance and the negotiated agreement;
- Provide leadership in curriculum development; advocate for department faculty and research in the department;
- Promote and maintain a high-quality learning environment for diverse on-campus and online students;
- Determine annual department goals, objectives, and plans; prepare, prioritize, and monitor budget requests and expenditures;
- Recruit, hire, and mentor new faculty;
- Seek additional funding sources; espouse and practice principles of affirmative action and equal opportunity; keep current with new developments in their field;
- Maintain involvement with professional organizations; and help advance the outreach mission of the University.

Accomplishments as Department Head

- Brought respect and dignity to the department as a whole and professional behavior has been modeled that is free of intimidation, threats, and misuse of authority. A working environment where everyone is free to express their opinions in a professional manner has been created;
- Worked strategically with the animal science faculty and staff to restructure the animal operation. The model adopted was to maintain the adequate number of beef cattle (50), sheep (30), Goats (30), and horses (45) to conduct teaching and applied research. This was an immense project that promote and maintain sustainability of animal operations;
- Balanced the operating budget (\$660,000 of an overall budget of about \$1.7 million) of the Department of Agriculture and Natural Resources during my tenure. The operating budget deficit was \$150,000 when I took office.
- I restored the trust of the Institutional Animal Care and Use Committee (IACUC) in our animal operations staff to follow protocols and standards operating procedures. We had very successful animal inspections (standards of good care, use, and animal wellbeing were met at each inspection);
- Provided leadership to very successful academic program reviews (Agriculture Systems Management, Animal Science, Equine Science, Horticulture, Golf and Turf Management) with significant curriculum changes for improvement in student's achievement. The Equine Science added an emphasis on Equine Management with a new program My foremost mission in leading the Department is determining what will benefit our student's future and the reputation of the University of Minnesota;
- Hired Seven (7) program faculty and instructional staff: three tenure-track faculty (two in Animal Science, one in Ag Education), four P&A instructional staff (one in Ag Business, one in Agronomy, one in Aviation, one in Equine)
- Hired five (5) staff members - three Farm Animal Attendants and two Lab Services Coordinators

- Under my leadership, three faculty were Tenured: One in Horticulture, one Gold & Turf, and one in Natural Resources programs;
- Helped the promotion of one tenured faculty to the rank of full professor in the Natural Resources program;
- Supported and promoted the Ag Aviation program and strengthen our working relationships with the University of North Dakota Aerospace Foundation (i.e., UMC Fund Raising with Alumni Development and Relations, UMC Video Promotion and Recruitment, UAS Curriculum Development, Facilities Improvement at Crookston Airport, PIAC Chair for the Aviation Program, Marketing/UAS Development with UMC/UNDAF, Aviation Curriculum Development, Promotion and Management of increased Veterans Affairs (VA) opportunities at UMC;

Fundraising Activities

- Helped plan the remodeling of the Center for Collaborative Research (CCR lab) at UMC. Helped fundraise, promote, and support the matching fund for this project. Project funds of **2 million US dollars**;
- Helped plan the redesign of Dowell and Owen Lab for teaching and research. Also participated in the fundraising efforts for this project. Project funds of **1.8 million US dollars**;

Involvement with professional organizations; and help advance the outreach mission of the University.

- Promoted the Internationalization of the curriculum in the department by leading the Collaboration between the University of Minnesota Crookston and the University UniLaSalle, Rouen of France. International Agriculture Production, Processing, and marketing is the course lead by me and another faculty (Terrill Bradford Lindsey) in the department. I promoted and supported study abroad courses to Ireland and Brazil lead by faculty;
- Promoted and supported the Pre-Veterinary emphasis of the Animal Science and Equine Science program to remain strong and retain an international reputation for excellence, with graduates admitted to veterinary schools at an impressive rate of 50% of UMC applicants. UMC North American Colleges and Teacher of Agriculture (NACTA) teams, Horticulture teams, Agronomy-crop teams, and Natural Resources teams have done extremely well at regional and national competitions.

Current Membership in Professional Organizations

1. American Dairy Science Association, USA
2. North American Colleges and Teachers of Agriculture (NACTA), USA
3. Gamma Sigma Delta, USA
4. Lions Clubs International – Dawn to Dusk Lions Club of Crookston, MN, USA
5. Maliwatch (the Malian Diaspora for Science and Technology in USA) – Treasurer (2002 -2009); President (2010-2013, 2019- present) and Member of the Board of Directors (2010 – present)
6. Scientific Director of the Malian Symposium of Applied Sciences (MSAS) (2004 – present)
7. Editorial Board of NACTA Journal (2012 – present)
8. Editorial Board of the Journal – The Professional Animal Scientist, USA (2012 – present
9. Editorial Board of MSAS - Malian Symposium of Applied Sciences (MSAS) (2004 – present)
10. USA Representative of TOKTEN project of Mali -Transfer of Knowledge through Expatriates Nationals of Mali (2006 – present)

CULTURAL COMPETENCY

1. Languages: Fluent in English, French, Bambara (native), and Sonrai (native)
2. Lived and worked in Mali and USA
3. Led Study abroad with UMC students in France (4 times) – GnAg 3204 – International Agriculture Production, Processing and Marketing
4. Traveled to Senegal, Cote d’Ivoire, Ghana, Niger, Burkina Faso, France, Belgium, Italy, and USA (30 states).

HONORS AND AWARDS FOR RESEARCH/CREATIVE WORK, TEACHING, PUBLIC ENGAGEMENT, AND SERVICE

1. The National Society of Leadership and Success Excellence in Teaching Award, 2014.
2. Faculty of the Month of September 2014 for Achievement of Excellence in Teaching – Crookston Student Association of the University of Minnesota Crookston.

3. NACTA (North America Colleges and Teachers of Agriculture) Certificate of Honorable Mention for NACTA Journal Article “Using Interactive Flash Games to Enhance Students ‘Learning in Animal Sciences’”. NACTA Journal 57 (3) 60-66, 2013. June 2014.
4. The 2010 Award for Global Engagement and Distinguished Professor (Awarded March 2011) – University of Minnesota System wide.
5. NACTA (North America Colleges and Teachers of Agriculture) Fellow Teacher Award, June 2008, Logan, Utah.
6. University of Minnesota, Crookston – Outstanding Service-Learning Faculty, 2008
7. University of Minnesota, Crookston – Distinguished Teacher Award, 2006
8. University of Minnesota –Ag-Arama Appreciation Award, 2002
9. University of Minnesota Extension Service Multi-Cluster Team Award – University of Minnesota Beef Education Series/Nutrition Home Study Course Award, 1998.
10. Minnesota Forage & Grassland Council Outstanding Contribution Award - 2001
11. African American Institute Graduate Fellowship Awards, 1983 & 1990

RESEARCH, SCHOLARSHIP, AND CREATIVE WORK

Grants and Contracts

Received at the University of Minnesota:

1. Principal Investigator – Harouna Maiga
 Co-investigators: Konimba Bengaly, University of Segou, Mali, Hamidou Nantoumé, IER (Agricultural Research Institute), Mali
 Project Title: Promotion of Cassava (*Manihot esculenta*) Foliage Utilization in Small Ruminants’ diet to increase Productivity and Women’s income in the District of Ségou, Mali – 2015-2019
 Direct cost: **\$20,000.00 (\$10,000.00 from UMC Vice Chancellor Office and \$10,000.00 from IER, Mali)**
2. Principal Investigator – Harouna Maiga
 Co-investigators: Marc Bauer (NDSU, Fargo, ND), JW. Schroder (NDSU, Fargo, ND)
 External Agency -Minn-Dak Growers Ltd, Grand Forks, ND
 Title: Study of S-methyl Cysteine Sulfoxide in mustard bran fed to lactating Holstein dairy cows. Study to be completed in **2012-2013**
 Direct cost: **\$43,869.00 US of which \$38,119.00 from Minn-Dak Growers and remaining from UMC)**

3. Principal Investigator – Harouna Maiga
External Agency -Minn-Dak Growers Ltd, Grand Forks, ND
Title: Mustard bran feeding to lactating Holstein dairy cows. Study is completed and results published in the journal of Dairy Science. **2007-2009**
Direct cost: **\$35,500US (Minn-Dak Growers)**

4. Principal Investigator – Harouna Maiga
External Agency -Minn-Dak Growers Ltd, Grand Forks, ND
Title: Mustard bran feeding to lactating Holstein dairy cows. Study is completed and results published in the journal of Dairy Science. **2006-2007**
Direct cost: **\$9,500US (Minn-Dak Growers)**

5. **Co-Investigators:** Harouna Maiga., D. L. Crawford, B. Dingmann, M. Grave, S. Lim-Thompson, K. W. Meyers, and K. Thompson. 2009.
External Agency: Bush Grant for the Scholarship of Teaching and Learning
Title: Cooperative Learning: Students’ Perceptions of their Learning in Formal Cooperative Learning Groups. **2007-2008**. Abstract presented at the NACTA meeting 2009.
Direct cost: \$3,000 US (Bush Grant)

6. Principal Investigator: Harouna Maiga
Agency: Travel Grant from the Office of International Programs, University of Minnesota, Twin Cities
Title: Attending the Malian Symposium of Applied Sciences, August 1-7, 2010, Bamako, Mali. 2010
Direct cost: \$1,500

7. Co-Investigators: Harouna Maiga, Terrill Bradford, and Chuck Lariviere
Agency: Travel Grant from the Office of International Programs, University of Minnesota, Twin Cities
Title: Study Abroad Exploratory Trip, France June 24 - 30, 2009
Direct cost: \$2,500

Received at the University of Minnesota – Student Grants

Student Name, Principal Investigator

Co-Investigators – Danielle Harris (student), Melanie Meyer (student), and Harouna Maiga (Principal Investigator).
University of Minnesota, Crookston Student Research Grant
Title: Evaluation of rumen fermentation of Canola meal pellets in lactating dairy cows. Study is completed and results published in the journal of the Professional Animal Scientist. **2007-2008**
Direct cost: **\$4,000US.**

Publications

Refereed Journal Articles

1. **Maiga, H. A.**, and M. L. Bauer. 2013. Using Interactive Flash Games to Enhance Students' Learning in Animal Sciences. *NACTA Jour.* 57 (3): 60-66
2. **Maiga, H. A.**, M. L. Bauer, C. R. Dahlen, M. Badaruddin and E. J. Scholljegerdes. 2011. Mustard bran in lactating dairy cows' diet. *J. Dairy Sci.* 94:3054-3062.
3. **Maiga, H. A.**, D. M. Harris, M. E. Meyer, C. R. Dahlen, and M. L. Bauer. 2011. Effect of Pelleted high-oil canola meal from on-farm biodiesel production on rumen fermentation in lactating Holstein dairy cows. *Prof. Anim. Sci.* 27:29-34.
4. **Maiga, H. A.**, and L. E. Westrom. 2006. Integration of Service-Learning in Animal Science Curriculum. *NACTA Jour.* 50 (3): 57-64.
(* Principal Author)
5. Casper, D. P., **H. A. Maiga**, M. J. Brouk, and D. J. Schingoethe. 1999. Synchronization of carbohydrate and protein sources on fermentation and passage rates in dairy cows. *J. Dairy Sci.* 82:1779.
6. Nichols, J. R., D. J. Schingoethe, **H. A. Maiga**, M. J. Brouk, and M.S. Piepenbrink. 1998. Evaluation of Corn Distillers Grains and Ruminally Protected Lysine and Methionine for Lactating Dairy Cows. *J. Dairy Sci.* 81:482-491.
7. Henson, J. E., D. J. Schingoethe, and **H. A. Maiga**. 1997. Lactational evaluation of protein supplements of varying ruminal degradability. *J. Dairy Sci.* 80:385-392.
8. **Maiga, H. A.**, and D. J. Schingoethe. 1997. Optimizing the utilization of animal fat and ruminal bypass proteins in diets of lactating dairy cows. *J. Dairy Sci.* 80:343-352.
9. **Maiga, H. A.**, D. J. Schingoethe, and J. E. Henson. 1996. Ruminal degradation, amino acid composition, and intestinal digestibility of residual components of five protein supplements. *J. Dairy Sci.* 79:1647-1653.
10. **Maiga, H. A.**, D. J. Schingoethe, and F. C. Ludens. 1995. Evaluation of diets containing supplemental fat with different sources of ruminally degradable carbohydrates for lactating cows. *J. Dairy Sci.* 78:1122-1130.
11. **Maiga, H. A.**, D. J. Schingoethe, F. C. Ludens, W. L. Tucker, and D. P. Casper. 1994. Response of calves to diets that varied in amounts of ruminally degradable carbohydrate and protein. *J. Dairy Sci.* 77:278-283.

12. Casper, D. P., D. P. Schingoethe, M. J. Brouk, and **H. A. Maiga**. 1994. Nonstructural carbohydrate and undegradable protein sources in the diet: Growth responses of dairy heifers. *J. Dairy Sci.* 77:2595 -2604.

Proceedings of Conferences

1. Konimba BENGALY, **Harouna MAIGA**, Marc BAUER, Mustapha YUSUF Sounkalo TRAORE, Simon KOITA, Awa S. DOUMBIA, Seydou SIDIBE , Amadou DIOP, 2020. Chemical composition and nitrogen value of protein supplements for dairy cows in Ségou région (Composition chimique et valeur azotée des sources de protéines utilisées dans la région de Ségou pour la production laitière des vaches). MSAS 2020 (paper #123).
2. Westrom, L. E., **H. A. Maiga**, and S. Westrom. 2010. Developing an Agricultural Education Program in Malian Public High Schools Workshop. Proc. Sixth Edition of the Malian Symposium on Applied Sciences (MSAS 2010), pages 277-282. August 1-7, 2010, Bamako, Mali. http://msas.maliwatch.org/msas2010/Proceedings_MSAS2010.pdf
3. **Maiga, H. A.**, M, Nicole Larson, Andrea Hoff, Dan Lim, and Kelly C. Nelson. 2008. (**Invited paper**). Interactive farm animal breeds games CD: A Technology Enhanced Teaching and Learning tool. Proc. Fifth Edition of the Malian Symposium on Applied Sciences (MSAS 2010), pages 37- 49. August 3-8, 2008, Bamako, Mali. http://msas.maliwatch.org/msas2008/msas2008_pp037-049.pdf in the proceedings at: <http://msas.maliwatch.org/msas2008/proceedings.html>
4. **Maiga, H. A.** 2006. (**Invited paper**). Les obstacles à l'évaluation de rations alimentaires efficaces pour les bovins au Mali. Proc. Fourth Edition of the Malian Symposium on Applied Sciences (MSAS 2006), pages 89-94. July 30 – August 3, Bamako, Mali. http://www.msas.maliwatch.org/msas-2006/msas2006_pp089-094.pdf in the proceedings at: <http://www.msas.maliwatch.org/msas-2006/proceedings.html#session04>
5. **Maiga, H. A.** 2004. Evaluation of diets containing animal and/or vegetal lipids with different sources of carbohydrates for lactating dairy cows. *A Synthetic Review*¹. Proc. Third Edition of the Malian Symposium on Applied Sciences (MSAS 2004); page 279-287. August 2-5, Bamako, Mali. http://msas.maliwatch.org/msas2004/proceedings/msas2004_pp279-287.pdf <http://msas.maliwatch.org/msas2004/proceedings/proceedings.html>

Presentations, Posters, and Exhibits

Abstracts (published in electronic or paper format that are archived or searchable)

1. **Maiga, H.**, T. Bradford, and Lariviere, C. 2011. Integration of Study Abroad in Animal Science Curriculum. Abstract, page 3. Second Annual – Internationalizing the Curriculum and campus Conference, March 25, 2011. Global Programs and Strategy Alliance (GPS Alliance, University of Minnesota, Minneapolis, MN.

2. Westrom, L.E., **H. A. Maiga**, and T. A. Bradford. 2011. Agricultural International Experiences: Borderless Classrooms. Abstract #163, page 34. NACTA Jour. Vol. 55, Supplement 1. University of Alberta, Edmonton, Canada.
3. **Maiga, H. A.**, M. L. Bauer, C. Dahlen, and M. Badaruddin. 2009. Lactational response of lactating dairy cows fed a diet containing mustard bran. Abstract #277. p. 87. Abstracts. Amer. Soc. Anim. Sci./Amer. Dairy Sci. Assoc. Midwest Branch, Mar 16-18, 2009. Des Moines, IA.
4. **Maiga, H. A.**, L. E. Westrom, T.A. Bradford, and A.H. Knudsvig. 2007. The Scholarship of Teaching in Agriculture: Student Outreach Project for Applied Sciences and Technology. NACTA Jour. 51 (2): 84 (Abstr.). University of Illinois, Urbana, IL.
5. Maiga, H. A., C. Dahlen, P. Nester, M. L. Bauer, and M. Badaruddin. 2007. Evaluation of a diet containing mustard bran for lactating dairy cows. Abstracts. p. 97. Amer. Soc. Anim. Sci./Amer. Dairy Sci. Assoc. Midwest Branch, Mar 19-21, 2007. Des Moines, IA.
6. Maiga, H. A, and L. E. Westrom. 2005. Integration of Service-Learning in Animal Science Curriculum at the University of Minnesota, Crookston. Page 25. NACTA Jour. Vol. 49 (2):73 (abstr.). The 51st Annual Conference of the North American Colleges and Teachers of Agriculture. June 15-17, 2005. The Ohio State University – ATI, Wooster, OH
7. R. Nichols, D. J. Schingoethe, **H. A. Maiga**, M. J. Brouk, and M. S. Piepenbrink. 1998. Evaluation of Corn Distillers Grains and Ruminally Protected Lysine and Methionine for Lactating Dairy Cows J. Dairy Sci. 81: 482.
8. Judy Ellison Henson, David J. Schingoethe, and **Harouna A. Maiga**. 1997. Lactational Evaluation of Protein Supplements of Varying Ruminant Degradabilities. J. Dairy Sci. 80: 385.
9. **Harouna A. Maiga** and David. J. Schingoethe. 1997. Optimizing the Utilization of Animal Fat and Ruminant Bypass Proteins in the Diets of Lactating Dairy Cows. J. Dairy Sci. 80: 343.
10. **Harouna A. Maiga**, David J. Schingoethe, and Judy Ellison Henson. 1996. Ruminant Degradation, Amino Acid Composition, and Intestinal Digestibility of the Residual Components of Five Protein Supplements. J. Dairy Sci.79: 1647.
11. **H. A. Maiga**, D. J. Schingoethe, and F. C. Ludens. 1995. Evaluation of Diets Containing Supplemental Fat with Different Sources of Carbohydrates for Lactating Dairy Cows. J. Dairy Sci. 78: 1122.
12. David P. Casper, David J. Schingoethe, Michael J. Brouk, and **Harouna A. Maiga**. 1994. Nonstructural Carbohydrate and Undegradable Protein Sources in the Diet: Growth Responses of Dairy Heifers. J. Dairy Sci. 77: 259.

13. **Harouna A. Maiga**, David J. Schingoethe, Fenton C. Ludens, William L. Tucker, and David P. Casper. 1994. Response of Calves to Diets That Varied in Amounts of Ruminally Degradable Carbohydrate and Protein. *J. Dairy Sci.* 77: 278.

Posters or Exhibitions

1. **Maiga H.**, D. L. Crawford, B. Dingmann, M. Grave, S. Lim-Thompson, K. W. Meyers, and K. Thompson. 2009. Assessment of student team member effectiveness in collaborative Learning. Abstract #338, page 35. NACTA 2009 Abstracts and Awards. Oklahoma State University, Stillwater, OK
2. Harris†, D. M., M. E. Meyer†, **H. A. Maiga**, and C. Dahlen. 2009. Evaluation of diet containing pelleted high oil canola meal for lactating dairy cows. Abstract #283. page 89. Abstracts. Amer. Soc. Anim. Sci./Amer. Dairy Sci. Assoc. Midwest Branch, Mar 16-18, 2009. Des Moines, IA.
(†Students)
3. Terrill Bradford, Lyle Westrom, and **Harouna Maiga**. 2008. Factors that contribute to student achievement in an Introductory Animal Science Course. *NACTA Jour.* 52 (2): 89 (Abstr.). Utah State University, Logan, UT.

TEACHING AND CURRICULUM DEVELOPMENT

University of Minnesota Crookston

Courses, seminars, and instructional units taught

AnSc 2001 – Artificial Insemination in Cattle (1 credit), 2001- 2009
AnSc 2104 – Feeds & Feeding (4 credits), 2001- present
AnSc 3004 – Livestock Facilities and Environmental Systems (3 credits), 2001- present
AnSc 3104 – Applied Animal Nutrition (4 credits), 2001- present
AnSc 3204 – Dairy production (4 credits), 2001- Present
AnSc 3205 – Dairy Management Practicum (3 credits), 2001-2004
AnSc 3304 – Reproduction, AI & Lactation (4 credits), 2001 – 2003 and 2006-2008
AnSc 3804 – Independent Studies in Animal Sciences (1-3 credits), 2001- present
AnSc 4204 – Animal Systems Management (4 credits), 2001- 2014
GnAg 3203 – Ag Products and Processing (3 credits), 2001- present

GnAg 3204 – International Agriculture Production, Processing, and Marketing, 2010-Present
Agro 3130 – Forages (3 credits), 2001-2014

Curriculum Development

(Courses, seminars, laboratories, curriculum guides, assessment activities for student earning, service learning materials, rubrics, etc.)

1. AnSc 3004 – Livestock Facilities and Environmental Systems (3 credits). Completely redesigned this course to incorporate pollution and environmental issues
2. AnSc 4204 – Animal Systems Management (4 credits), 2001-2015. Each student is engaged in service learning project to address local farmers' needs
3. GnAg 3204 – International Agriculture Production, Processing, and Marketing, 2010. This is a newly developed course to provide study abroad experience to students. I worked with two UMC faculty (Terrill Bradford and Chuck Lariviere) to develop this course and we continue to refine it in order to make it a sustainable course

ADVISING AND MENTORING

Undergraduate Student Activities

Undergraduate research projects (UROPS, directed research, lab participation, etc.)

Student names

Danielle Harris, 2007-2008

Melanie Meyer, 2007-2008

Undergraduate advising: 30-40 students per year

Professional Student Activities

French International supervised internship

1. Joseph Duhamel, graduate student at ESITPA Agricultural School of Rouen, France (summer 2011). Co-Supervised summer 2011 internship at Northwest Research and Outreach Center (NWROC), Crookston, MN
2. Claire Thiebaut, graduate student at ESITPA Agricultural School of Rouen, France (summer 2011). Co-Supervised summer 2011 internship at West Central Research and Outreach Center (WCROC), Morris, MN

University of Minnesota, Crookston Student Clubs and Organizations

1. UMC Dairy Club Advisor:
 - Attended club meetings and other functions

2. NACTA Judging Conferences Advisor for UMC Teams
 - Livestock Management and Quiz Bowl Competitions
3. Ag Activities Day, UMC
 - Advisor/Coach for the Dairy Judging Competitions
4. Ag-Arama Students Competitions in Agricultural and Natural Resources
 - Advisor for the dairy competitions

SERVICE AND PUBLIC OUTREACH

Service to the Discipline/Profession/Interdisciplinary Area(s)

Editorships/Journal Reviewer Experience

1. Editorial Board of North American Colleges and Teachers of Agriculture (NACTA) (2012-present)
2. Editorial Board of MSAS (2004-present). Editor of the Proceedings of the Malian Symposium of Applied Sciences (MSAS, Bamako, Mali), Agricultural section (2004-Present)

Committee memberships

1. Midwest Section of American dairy Science/American Society of Animal Science Teaching Award Committee member (2010-present)

Organization of conferences, workshops, panels,

1. Malian Symposium of Applied Sciences (MSAS), Bamako, Mali – Key organizer of the symposium in 2002, 2004, 2006, 2008, and 2010, 2012, 2014, 2016, 2018. I also organized the mini-symposium on Agricultural issues during 2006, 2008, 2010, 2012, 2014, 2016, 2018.

Service to the University/College/Department

University of Minnesota

University-wide service

1. University of Minnesota System wide – Global Spotlight Committee member (2009-2014)

Crookston Campus

1. Department Head and Professor (6/2016- 6/30/2019)
2. Program Improvement and Advisory Committee (PIAC) for Animal Science Program
3. UMC Curriculum Committee member (2011-2013 and present)
4. UMC Chancellor Search Committee member (2012)

5. UMC Admissions Committee member (2009- present)
6. UMC Parking Appeal Committee member (2011-present)
7. UMC Academic Quality Improvement Program (AQIP) Committee member (2009 – 2013)
8. UMC Director of Diversity Search Committee member (2011)
9. UMC Promotion and Tenure Committee member (2009- Present)
10. Chair – Faculty Assembly & Faculty Consultative Committee of University of Minnesota, Crookston Campus (2007-2008)
11. Vice Chair – Faculty Assembly & Faculty Consultative Committee) of University of Minnesota, Crookston Campus (2006-2007)
12. UMC Director of International Programs Search Committee (2007)
8. Chair – University of Minnesota, Crookston Student Awards Committee (2004-2005).
9. UMC - HLC (High Learning Commission, 2005) – Self-study for UMC re-accreditation. I represented the Agriculture Department of the University for Criterion 5 (Engagement & Service) of the self-study
10. UMC Faculty Awards Committee member (2003-2004)
11. UMC Committee on Access for Persons with Disabilities member (2003-2005)

Agriculture and Natural Resources Department, UMC

1. Chair for the Promotion and Tenure Committee for Chancellor Mary Holtz-Clause’s promotion and tenure in the Agriculture and Natural Resources Department (2017)
2. Chair for the Promotion and Tenure Committee of the Agriculture and Natural Resources Department (2009-10, 2010-11, 2015-present)
3. Chair for the Search Committee for Math, Science, and Technology Department Head (2017)
4. UMC Faculty hiring committees, i.e., Animal Sciences (2008-2009, 2012, 2015), Equine Science positions (2005, 2006, 2007), and Biology position (2004)
5. UMC Dairy Club Students Advisor (2001- Present)
6. NACTA Judging Conferences, Coach of UMC Livestock Management and Quiz Bowl Teams
7. Campus Preview for Prospective Students (2008-2011)
8. Ag Activities Day (2001- Present)
9. Ag-Arama programs for students Ag competitions on Campus

Public and Other Service

Community, state, national, or international service activities

1. Volunteer for Farmer to Farmer project in Segou and Sikasso regions of Mali in collaboration with Judy Moses and Bara Kassambara – June, July, and August 2015.
2. Consultant for the TOKTEN (Transfer of Knowledge through Expatriate Nationals). University of Ségou, Mali (June –July 2014 and Mars 2015, July 2016, July 2018, August 2019) – Taught Animal Productions in Sub-Saharan Countries and Dairy Production/Artificial Insemination.
3. Visiting Professor Zhejiang Economic & Trade Polytechnic, Hangzhou, Zhejiang, China, May-June 2013.
4. Northwest Minnesota Dairy Diagnostics Teams – Member of several farm teams with the role of Nutritionist (2001-2008)
5. President of Dawn to Dusk Lions Club of Crookston (2009). I was also treasurer for many years.
6. TOKTEN – Mali - Summer Teaching at the Polytechnic Rural Institute (School of Agriculture) in Mali (west Africa) – Taught Agriculture Production classes and Extension Service Programming at IPR, Katibougou, Mali(2002, 2002, 2006, and 2008).
7. Consultant for the Mali Government on Mali Higher Education Challenges and Programming. The Office of the Prime Minister. I attended the 2008 National Forum on Education: Challenges and Revamping the System.
8. Consultant for the Cabinet of Mali Ministry of Malian Living Abroad and African Integration. 2010. I attended the National Forum on the mobilization and Use of Malian Scientific and Intellectual Diaspora to help the country with its economic and social development.