

CURRICULUM VITAE

1. **NAME:** MOHAMED SALIM BADAMANA
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2. **NATIONALITY:** KENYAN

3. **EDUCATION:**
 - 3.1 Institute of Islamic Banking and Insurance- Completed a Post Graduate Diploma in Islamic Banking and Insurance- 2016
 - 3.2 Khartoum University – Sudan 1995 – 2001. Obtained second PhD in Islamic Philosophy.
 - 3.3 Reading University – UK – 1983 – 1987. Obtained Ph.D. in Animal Nutrition.
 - 3.4 Reading University – UK – 1982 – 1983. Obtained Master of Science in Animal Production.
 - 3.5 Mosul University – IRAQ – 1975 – 1980. Obtained Bachelor of Veterinary Medicine and Surgery (B.V.M&S).
 - 3.6 Egerton College – Kenya- 1968 – 1970. Obtained Diploma in Animal Husbandry with Credit.
 - 3.7 Khamis Secondary School 1964-1967
 - 3.8 Lamu Primary School 1960-1963
 - 3.9 Madrasah An-Najah Al-Islamiyah Lamu – Kenya – 1953- 1960
 - 3.10 Languages: Fluent in English, Arabic and Kiswahili.

4. **SHORT TRAININGS:**
 - 4.1 Certificate of participation on training course on Comparative Grant Systems Proposal Writing and GIS Mapping of Sorghum and Millet Domains in the ECA Central Africa Regional Sorghum & Millet Network CECARSAM of ASARECA at Nairobi , Safari Club Hotel from 30-5 to 4-6-2005.

- 4.2 A workshop on simulation of models in assessing year-round feeding strategies in mixed crop livestock systems, organised by CIP-SLP-ILRI held at ILRI, Nairobi from 20-2 to 4-3-2005.
- 4.3 Certificate of participation on “Scientific proposal writing, from 19-25/11/2006 at KCB Management Centre, Karen Nairobi facilitated by RAIN ASARECA & University of Nairobi.
- 4.4 Certificate of participation on Training of Chief Internal Examiners Workshop, held on 13 & 14/7/06 at KCCT, Mbagathi, Nairobi.
- 4.5 Senior University Management Seminar on Results Based Management held on 4 to 5/4/07 and 25/5/07.
- 4.6 ISO 9001: 2000 Training held at the University of Nairobi on 6/2/07.
- 4.7 Attended Laboratory Animal Science Course (FELASA-C) held on 7 to 22/5/07 at Chiromo Campus, University of Nairobi.
- 4.8 Certificate on Artificial Insemination practical course attended at Ahiti Kabete 25/1/71 to 20/2/71.
- 4.9 Certificate of participation on Training of Chief Internal Examiners Workshop, held on 13 & 14/7/06 at KCCT, Mbagathi, Nairobi.
- 4.10 Senior University Management Seminar on Results Based Management held on 4 to 5/4/07 and 25/5/07.
- 4.11 ISO 9001: 2000 Training held at the University of Nairobi on 6/2/07.
- 4.12 Attended Laboratory Animal Science Course (FELASA-C) held on 7 to 22/5/07 at Chiromo Campus, University of Nairobi.
- 5.13 Certificate on Artificial Insemination practical course attended at Ahiti Kabete 25/1/71 to 20/2/71.

5. EMPLOYMENT HISTORY

- 5.1 From 9/9/2004 -13/9/2013, I have been the Chairman, Department of Animal Production, University of Nairobi.
- 5.2 On 19/5/2006, I was promoted to Associate Professor in the Department of Animal Production, University of Nairobi.
- 5.3 From 21/2/1994 to 2001, I was the Director and Trustee of World Assembly of Muslim Youth (WAMY) East African Region (an International NGO).

- 5.4 On 17/11/1998 I rejoined the University as a sineor lecturer, Department Of Animal Production, University of Nairobi
- 5.5 On the 6th June, 1991, I was promoted to a senior lecturer in the department of Animal Production, University of Nairobi.
- 5.6 On the 10th September 1987, I was promoted to a lecturer in the Department of Animal Productionn, University of Nairobi after completing my Ph.D.
- 14.7 On 16-12-1980, I started working as a tutorial fellow, at the Department of Animal Production, University of Nairobi. Then I was selected to do my MSc. and Ph.D. programme at Reading University, UK, 1982 – 1987.
- 5.8 April, 1973 to 1975, transferred to Central Artificial Insemination Station (CAIS) Kabete, Kenya to join A. I. Survey Team. Part of our job was to supervise and evaluate the existing artificial insemination schemes in the country and plan new schemes.
- 5.9 April, 1971 to 1973, was posted to Taita/Taveta District as a livestock Officer in Charge of Artificial Insemination and was assisting District Veterinary Officer in his duties.
- 5.10 On 7-12-1970, I started working as a District Livestock Officer, Kilifi, Kenya, under Veterinary Services Division, Ministry of Agriculture in charge of disease control , treatment and general animal husbandry.

6. PROFESSIONAL EXPERIENCE

- 6.1 As a chairman of the department I was also in charge of income generating from my department which has a poulrty unit and feed analysis Laboratories and a hutchary
- 6.2 On many ocassions I acted as dean Faculties of Vertrinary medicine and Agriculture and sometimes Principal of the College of Agriculture And Veterinary Sciences, especially in the college appointment comettee where most of the times I represented the principal

6.3 Courses I taught at various times;

Programme	Year	course
Bachelor of Vet. Medicine	2	Pasture Production, Conservation & Utilization
	2	Principles of Animal Nutrition
	2	Production of Ruminant
	2	Principles of Animal Production
	2	Farm Practice
BSc. Wildlife Management	2	Natural Histories of selected Species
	2	Wildlife Nutrition
	3	Wildlife Production
BSc. Agriculture	2	Principles of Animal Production
	2	Feeds and Feeding
	2	Ruminant & non-Ruminant Production
	4	Dairy Cattle Production
	4	Sheep and Goat Production
MSc. Animal Nutrition & Feed Resources	1	Ruminant Nutrition
MSc. Livestock Production Systems	1	Dairy Cattle Production Systems
	1	Sheep and goat Production Systems
MSc. Agriculture Research Management	1	Animal Production Systems & Health
MSc. In Veterinary Epidemiology and Economics (MVEE)	1	Livestock Production Systems

6.4 Some of the Graduate students I supervised in the Department of Animal Production

- 6.4.1 Mburu J.N. MSc. thesis on "Effects of cobalt deficiency on some rumen and thyroid functions" (graduated 1991)
- 6.4.2 Nyakalo MSc. thesis on "Effect of feeding poultry waste based diets on milk production from Galla goats" (graduated 1991)
- 6.4.3 Situma, A.G MSc. thesis on "Effects of sugar cane molasses on the quality of napier grass silage" (graduated 2006)
- 6.4.4 Mbutia Ph.D on Effects of inclusion of protein-rich forage on quality of Nappier grass silage" (graduated 2003)

- 6.4.5 Nyaga Maragara MSc. thesis on; "use of indigenous fodder shrubs and trees for dry season feeding" (graduated 2009)
- 6.4.6 Ombura James MSc. thesis on; "An Assessment of the efficiency of the dairy bull dam selection methodology in Kenya" (graduated 2008)
- 6.4.7 Njiru A. N MSc. thesis on " Evaluation of dual purpose sorghum varieties for animal feed in semi-arid areas of Kenya" (graduated 2009)
- 6.4.8 Mwanyumba P.M MSc. thesis on "Descriptive analysis of the dairy- crop mixed farming system in Wundanyi Division of Taita District, Kenya. (graduated 2010)
- 6.4.9 Macharia D. Ph.D Thesis on "Computer based techniques for efficient milk production by optimizing mate allocation on strategies in Kenyan Dairy cattle population. (graduated 2011)
- 6.4.10 Kibegwa F.M MSc. Thesis on “mitochondrial DNA variation and maternal lineage of indigenous goats in Narok and Isiolo counties of Kenya” (Graduated 2014)
- 6.4.11 Lekerpes, S. MSc. Thesis on “Genetic Polymorphism of B-Lacto globulin in Kenyan Small East African (*capra hircus*) Breed using PCR-RFLP and sequencing” (Graduated 2015)
- 6.4.12 Korir, I. MSc. Thesis on “Evaluation of sorghum ,Perl millet and grain legumes as feed for Broiler Chicken” (Not Yet Graduated)
- 6.4.13 Okitoi, Indovicus Oriama Ph.D. Thesis on " Studies on developing feeding strategies for Improved performance of local chickens in small scale farms in western Kenya" (Not Yet Graduated)
- 6.4.14 Rashid Kaka Ph. D. Thesis on " Genetic diversity and population abundance of the wild fishery of Malindi- Ungwana Bay in Kenya: Implications for aquaculture and conservation." (Not Yet Graduated)
- 6.4.15 Kiragu, J.,W. Ph.D thesis on;" Effects of including sweet potato vines, Lucern and concentrate in the ration of dairy calves on growth and rumen development"(Not Yet Graduated)
- 6.4.16 Leonard, M., M. Ph.D Thesis on “Effect of feed resources seasonality on livestock production in the coastal lowlands of Kenya” (Graduated)

- 6.4.17 Benard, K., K. Ph.D Thesis on “Effects of selected supplements on beef cattle productivity and rumen microbiology in Makueni County” (Not yet Graduated)
- 6.4.18 Ezekiel M.Beja PhD Thesis on ;Effect of Addition of Amylase and Xylase in Cassava Diet on Growth and Rumen Development of Calves.
- 6.4.19 George Okello MSc thesis on: Integration on indigenous knowledge with the farmers’ preferred phenotypes and breeding practices on *Capra hircas* populations in Kajiado and Makueni counties (Graduated 2016).
- 6.4.20 George Okello PhD thesis on: Taxonomic status and genetic diversity of *Christmas Fulu Haplochromis* (*Xystichromis*) Phytophagus in East Africa.
- 6.5 I have been the chief internal examiner for my department for the whole period of my chairmanship from 9/9/1994-13/9/2013 and an internal examiner for other departments within and outside the college
- 6.6 I have been an external examiner for a number of universities including Egerton University and also was the external examiner for the Department of Animal Science and Management in Chepkoilel university collage – a constituent college of Moi University.
- 6.7 I have been preparing strategic plans for my department and participated in preparing strategic plans for the Faculties of Agriculture and Veterinary Medicine and that of the college of Agriculture and Veterinary sciences.
- 6.8 I have been representing the Department, Faculties and College in various student disciplinary comettees
- 6.9 I have been attendinding to ISO-9001 inspection team queries for my Department, Faculties and College, defending the conformity of various college units to ISO standards
- 6.10 I have helped in reviewing Animal Science papers for various Journals, and was appointed as a member of ADHOC (grants Proposal Review Support Committee (GPRESK) for Kenya Agricultural Productivity Project (KAPP).
- 6.11 I have submitted reserch proposals for funding some of which were accepted and funded by Kenya Agricultural Production Project(KAPP) and The National Council of Science and Technology (NCST).
- 6.12 Departmental Representative of Board of Post Graduate studies in the Faculty of Agriculture from 2000 to 2006.

- 6.13 I have been the coordinator of seminar presentation in the Department of Animal Production from 1999 to 2005.
- 6.14 Departmental Representative of the Library Committee for the Faculty of Veterinary Medicine.
- 6.15 Departmental Representative in the Faculty Committee on Memorandum of Understanding between IPR Institute of Primate Research and Faculty of Veterinary Medicine and other research institutes.
- 6.16 Coordinator and convenor for the development of four MScs programmes in the Department of Animal Production namely MSc. in Animal Nutrition and feed science, MSc. in Animal Genetics and Breeding; MSc. in livestock Production systems and MSc. in Poultry Science.
- 6.17 Coordinator for Principles of Animal Production course taught to Vet, Agriculture, Range, Agribusiness Management and Food Science and Technology Students from 2000 to 2005.
- 6.18 Acted as a Chairman for the Department of Animal Production a number of times from 1989 to the time I was appointed Chairman of the department (i.e. 9/9/04).
- 6.19 From 1st December, 1989 to December, 1990, I was the secretary for Animal Production Society of Kenya (APSK).
- 6.20 I have been a member of British Society of Animal Production from 1984 to 1991.
- 6.21 I am a member of Kenya Veterinary Association and Animal Production Society of Kenya.
- 6.22 From 2007, have become a member of Kenya National Academy of Sciences.
- 6.23 I was chosen by the Commission on Higher Education to evaluate the suitability of a new MSc. Agricultural Programme and a BSc. in Islamic Programme from Institutions of higher learning.

7. SCIENTIFIC WORKSHOPS ATTENDED AND PAPERS PRESENTED AT NATIONAL AND INTERNATIONAL CONFERENCES

- 7.1 **Badamana M.S.& J.W. Wakhungu** (2006): Stratified goat production in the Kenyan rangelands. A paper presented at the FVM 5th Biannual Scientific Conference held at Kabete, Kenya, 6-8/9/2006.

- 7.2 Kilonzo, J.M. and **M.S. Badamana** (2006). Seasonal diet quality of grant's gazelles (*Gazellagranti Brooke*) in South-Eastern rangelands, Kenya. A paper presented at the FVM 5th Biannual Scientific Conference held at Kabete, Kenya, 6-8/9/2006.
- 7.3 Ombura J, R.O. Mosi, B.O. Inyangala and **M.S. Badamana**. An assessment of the efficiency of the dairy bull dam selection methodology in Kenya (2006). A paper presented at the FVM 5th Biannual Scientific Conference held at Kabete, Kenya, 6-8/9/2006.
- 7.4 From 7 to 9-6-2004, attended 5th Bi-annual Eastern Africa Goat Development Network Conference, KEMU, Kenya Methodist University, Meru. Sponsored by Farm Africa.
- 7.5 Wakhungu J.W. Olukoye G.A. and **M.S. Badamana** (2004). Productivity of indigenous and exotic cattle on Kenyan ranches. A paper presented at the Faculty of Veterinary Medicine Bi-annual Scientific conference at Kabete, Kenya, 3-5th Nov 2004.
- 7.6 From 10 to 14-9, 2003. I attended a retreat workshop and presented Strategic Planning for the Department of Animal Production for the year 2003 to 2007, as a part of the strategic plan for the faculty of Vet-Medicine at Abadere Country Club, Nyeri.
- 7.7 **Badamana M.S**, J.W. Wakhungu (2002). The role of dairy goats in small scale farming areas in Kenya. A paper presented at the faculty of veterinary medicine. Biannual scientific conference at Kabete, Kenya, 7-9/8/2002.
- 7.8 **Badamana .M.S**, J.W. Wakhungu (2002). The development of dairy cattle industry in the medium potential Agro-climatic zones of Kenya. A paper presented at the faculty of veterinary medicine. Biannual scientific conference at Kabete, Kenya, 7-9/8/2002.
- 7.9 **Badamana M.S** and J.W. Wakhungu (2002). The dairy potential in Rangelands of Kenya: (i) Indigenous cattle and sheep. A paper presented at the scientific conference of Kenya Veterinary Association, held at Kakamega, Kenya 24-26/4/2002.
- 7.10 **Badamana M.S** and J.W. Wakhungu (2002). The dairy potential in Rangelands of Kenya: (ii) Indigenous camels and goats. A paper presented at the scientific

- conference of Kenya Veterinary Association, held at Kakamega, Kenya 24-26/4/2002.
- 7.11 **Badamana M.S.**, J.W. Wakhungu, Okeyo .A.M, Shaabani .S. (2002). Drought monitoring systems checking the effect of livestock production in the northern region of Kenya: A case study of Isiolo and Wajir districts. A paper presented at the scientific conference of Kenya Veterinary Association, held at Kakamega, Kenya 24-26/4/2002.
- 7.12 Wakhungu J.W. **M.S. Badamana** and R.O. Mosi, (2002). Impact of Genetic Improvement in Dairy Production of the Kenyan Zebu cattle. A paper presented at the scientific conference of Kenya Veterinary Association, held at Kakamega, Kenya 24-26/4/2002.
- 7.13 **Badamana M.S.**, J. W. Wakhungu and R.O. Mosi, (2001). Feed budgeting of dairy cattle in the high potential areas of Kenya. A paper presented at a scientific conference of Animal Production Society of Kenya, held at Egerton University, 7-8/3/2001.
- 7.14 **Badamana M.S.**, Okeyo A. M. Mahboub M. and Shaban (2001). Drought monitoring systems, indicators, interventions and impacts on livestock production in the Kenya arid and semi-arid lands. A case for Baringo and Samburu districts. A paper presented at the scientific conference of Animal Production society of Kenya, held at Egerton University 7-8/3/2001.
- 7.15 Mburu, J.N., **M.S. Badamana** and J. M. Kamau, (1992). Rumen liquor, pH and volatile fatty acids concentrate in cobalt deficient small East African goats. A paper presented to the All African Conference on Animal Agriculture, Nov. 23 – 27, 1992, Nairobi, Kenya.
- 7.16 **Badamana M.S.** (1991) Dairy cattle industry in Kenya. A paper presented in a seminar on vitamin nutrition in livestock, sponsored by H. Oldman La Roche Limited held on 14th – 15th March 1991 at Silver Springs, Nairobi Kenya.
- 7.17 Nyakalo, S., **M.S. Badamana**, M.M. Wanyoike, 1991. Methods of measuring milk yield from Galla goats. In proceedings of the Nineth SR-CRSP scientific workshop held in Nairobi, Kenya. pp. 131-139.

- 7.18 Nyakalo, S., **M.S. Badamana**, M.M. Wanyoike, L. A. Mtenga and L.A Kategile (1990). The effect on growth rate of kids from Galla goat does supplemented with chicken manure containing diets. In: Proceedings of the 17th Scientific Conference of the Tanzania Society of Animal Production Conference held at A.I.C.C. 25 – 27 September 1990.
- 7.19 **Badamana M.S.** and B.A.J. Mwandoto, (1990). Smallholder goat production – Kenyan experience. In: Proceedings of the 17th Scientific Conference of the Tanzanian Animal Production Society in A.I.C.C. 25-27th September 1990.
- 7.20 **Badamana M.S.**, A.N. Said, M.M. Wanyoike and A. Abate (1990). Improving Ruminant Livestock Production in Sedentary smallholder farming systems in Kenya. Paper presented to Pan Commonwealth Veterinary Conference Animal Health and Production 2001 Harare, International Conference on Centre 10-14 September 1990.
- 7.21 Baptist, R. and **M.S. Badamana** (1990). Productivity assessment with many interacting components traits. In: Proceedings of the Eighth SR-CRSP Scientific Workshop, Nairobi Kenya 7-8/3/90 pp. 207-215.
- 7.22 Nyakalo, S., **M.S. Badamana**, M.M. Wanyoike (1990). The effect of increasing chicken manure levels in supplemental diets for lactating dairy goats on milk composition. In: Proceedings of the eighth SR-CRSP Scientific Workshop, Nairobi, Kenya 7 – 8/3/90 pp. 221-231.
- 7.23 **Badamana M.S.** (1990). The effect of level of protein in the concentrate on the performance of dairy goats. In: Proceedings of the Eighth SR-CRSP Scientific Workshop, Nairobi, Kenya 7-8/3/90 pp. 232-236.
- 7.24 Nyakalo, S., **M.S. Badamana** and M.M. Wanyoike, (1989). The effect of inclusion of poultry litter in a supplement on voluntary intake and digestibility in lactating Galla goats. Paper presented to APSK symposium held at the Wildlife and Fisheries training Institute, Naivasha Nov. 30th to December 1st 1989.
- 7.25 **Badamana M.S.** (1989). Feeding lactating dairy goats. Paper presented to Animal Production Society of Kenya (APSK) symposium held at the Wildlife and Fisheries Training Institute, Naivasha, Nov. 30th to December 1st 1989.

- 7.26 **Badamana M.S.** and K. Kiugu (1989). The problems associated with feeding experimental animals. Paper presented in the First East African Conference on Laboratory Animals held on 7-10th November, Nairobi, Kenya.
- 7.27 Abate, A., M.M. Wanyoike, **M.S. Badamana** and A.N. Abate (1989). Towards improving animal production in the Rangelands. In: proceedings of the 16th Grassland congress, Niece, France. Vol. 2pp. 1613 – 1614.
- 7.28 **Badamana M.S.** and M.M. Wanyoike (1989). The potential of non-commercial feeds in dairy animals. Paper presented at Kenya Vet. Association Annual Conference on 19-21/4/1989, at Kenya Trypanosomiasis Research Institute Muguga.
- 7.29 Nyakalo, S., **M.S. Badamana** and M.M. Wanyoike (1989). The effect of increasing chicken manure levels in supplemental diets for lactating Galla goats on milk production. In: Proceedings of the seventh SR-CRSP Scientific Workshop Nairobi, Kenya, 22-23 Feb 1989 pp. 186-199
- 7.30 **Badamana, M.S.** (1989). Comparison of forage intake and milk production of lactating Saanen goats offered grass hay, grass silage or a mixture of hay and silage. In: proceedings of the seventh SR-CRSP Scientific Workshop Nairobi, Kenya, 22-23 Feb. 1989 pp. 166-179.
- 7.31 **Badamana, M.S.** (1988). The principle and practice of feeding diary cattle during gestation. A paper presented to Kenya Vet. Association, Annual Scientific Conference held on 21-22 April 1988 at ILRAD – Kabete Kenya.
- 7.32 **Badamana, M.S,** J. D. Sutton and E. Owen (1987). The effect of increasing dietary crude protein in the concertrates on production by Saanen goats. In: Proceedings of the IV International Conference on goats, March 8-13 1987 held at Brazilia, p. 1382.
- 7.33 **Badamana, M.S.** and J.D. Sutton (1987). The effect of protein concentrated on hay intake, milk production and digestive processes by Saanen goats. Paper presented at the British Society of Animal Production (BSAP) winter meeting at Scarborough-U.K.. The abstract was published in the British Society J. Anim. Prod. Vol. 44:496.
- 7.34 **Badamana, M.S.** and J.D. Oldham, J.D. Sutton, and A. Mowlem. (1986). The effect of level of Protein in the concertrates on hay intake and milk production by

Saanen Goats. Paper presented at the British Society of Animal Production (BSAP) winter meeting held at Scarborough-UK.. The abstract was published in the J. Anim. Prod. 42: 451.

- 7.35 **Badamana, M.S.**, J. D. Oldham, A. Mowlem, and S Nash, (1985) Interactions between level of feeding and dietary crude protein content on digestibility in goats. A paper presented at the British Society of Animal Production (BSAP) winter meeting held at Scarborough – UK. The abstract was published in the J. Anim. Prod. 40: 571.
- 7.36 **Badamana, M. S.** and J. D. Oldham, (1984). Factors affecting ration digestibility in goats. A paper presented at the FAO seminar on goat feeding and nutrition, Grangenvenne, Switzerland. 16 – 18th October 1984.

8. PAPERS PUBLISHED IN THE REFEREED JOURNALS

- 8.1 G.O.Otieno, J.O.Junga, M.S.**Badamana**, J.O.Amimo, (2015). Indigenous knowledge in breeding and management of *Capra hircus* population in Kajiado and Makueni counties, Kenya. <http://creativecommons.org/licenses/by/4.0/>
- 8.2 F.Kibegwa, M., Githui, K.E., Junga, J.O., **Badamana**, M.S. & Nyamu, M.N. (2015). Mitochondrial DNA variation of indigenous goats in Narok and Isiolo counties of Kenya. *Journal of Animal Breeding and Genetics*, 1-10.
- 8.3 S.S.Lekerpes, J.O.Junga, M.S.**Badamana**, D.I.Rubenstein (2014). Genetic polymorphism of beta-lactoglobulin in Kenyan Small East African goat breed using PCR-RFLP and sequencing. *Scientific Journal of Animal Science* (2014) 3 (8) 233-239.
- 8.4 P.M Mwanyumba R. G Wahome, A. Mwang’mbi, E. Lenihan and **M.S. Badamana**, 2010. A dynamic study of smallholders mixed farms in Wundanyi location, Taita District, Kenya: Activities, performance and interactions, *Livestock Research for Rural Development*, 23:
- 8.5 P.M Mwanyumba R. G Wahome, A. Mwang’mbi, E. Lenihan and **M.S. Badamana**, 2010. An analysis of factors affecting smallholder mixed farming activities, performance and interactions in Wundanyi location, Taita District, Kenya, *Livestock Research for Rural Development*, 22.

- 8.6 P.M Mwanyumba, A. Mwang'mbe, E. Lenihan and **M.S. Badamana**, R. G Wahome and J.W Wakhungu, 2010.participatory analysis of the farming system and resources in Wundanyi location, Taita District, Kenya: A Livestock perspective. *Livestock Research for Rural Development*,22
- 8.7 Njubi D.M, J.W. Wakhungu and **M.S. Badamana** (2010). Predicting first lactation 305- day milk. Yield using artificial Network on the test day milk yields. *Trop. Anim. Health Prod.*42:639-644.
- 8.8 Njubi D.M, J.W. Wakhungu and **M.S. Badamana** (2009). Mating decision support system using computer neural network model in Kenyan Holstein-Friesian dairy cattle. ***Livestock Research for Rural Development*. 21(4).**
- 8.9 Njubi, D.M.; J.W. Wakhungu and **M.S. Badamana** (2009). Milk yield prediction in Kenyan Holstein-Friesian cattle using computer neural networks system. *Livestock Research for Rural Development*. 21(4).
- 8.10 Njubi D.M., Wakhungu J. and **Badamana M.S.** (2010) Application of computer based intelligence techniques for optimization of selection and mating strategies in the Kenyan dairy cattle population. *Livestock Research for Rural Development* 22 (2) 2010.
- 8.11 Njubi D.M., Wakhungu J. and **Badamana M.S.** (2009). Milk yield prediction in Kenyan Holstein-Friesian cattle using computer neural networks system. *Livestock Research for Rural Development*. 21 (4) 2009.
- 8.12 L. O. Okitoi, L. W. Kabuage, R. W. Muinga and **M. S. Badamana**. (2009). The performance response of scavenging chickens to nutrient intake from scavengeable resources and from supplementation with energy and protein. *Livestock Research for Rural Development* 21(10) 179, 2009 <http://www.lrrd.org/lrrd21/10/okit21179.htm>
- 8.13 Okitoi L O,Kabuage L W,Muinga R W and **Badamana B S** 2009. Intake of nutrients from scavengeable resources by scavenging chickens supplemented free choice with protein and energy. *Livestock Research for Rural Development*.21(12) 205. 2009. <http://www.lrrd.org/lrrd21/12/okit21205.htm>
- 8.14 Okitoi L O, Kabuage L W, Muinga R W and **Badamana B S** 2009. Diet composition and nutritional contribution of food scavenged by indigenous chickens in Western Kenya. *Livestock Research for Rural Development*.Vol 21, Article # 92

- 8.15 Okitoi, L.O., L.W .Kabuage, R.W. Muinga, E.A. Mukisira & **Badamana M.S**
Nutrition and feeding strategies for indigenous chickens in extensive management systems: a review E. Afr. Agric. For J. (2008)74(2), 59-69
- 8.16 **Badamana, M.S.**, J. W. Wakhungu and R. O. Mosi (2004). Enhanced indexing of goats. Bull Anim. Hlth, Prod. Afr.(2004), 52,31-38
- 8.17 Wakhungu J. W. , Olukoye G.A. and **M.S. Badamana** (2005). Productivity of Indigenous and Exotic cattle on Kenyan ranches. The Kenya Veterinarian 30.
- 8.19 Mburu J. N., J. M. Z. Kamau and **M. S. Badamana** (1994). Thyroid hormones and metabolic rate during induction of vitamin B12 deficiency in goats. New Zealand Veterinary Journal, (1994), 42, 187 – 189.
- 8.20 Mburu, J. N., J. M. Kamau, **M.S. Badamana** and P. N. Mburu (1994). Use of serum vitamin B12 in Diagnosis of Cobalt Deficiency in small East African Goats. Bull Anim. Hlth. Prod. Afr. (1994), 42, 141, 146.
- 8.21 Mburu, J. N. **M. S. Badamana** and J. M. Z. Kamau (1994) Faecal and Urinal losses of nitrogen in cobalt deficient small East African goat. Indian Journal of Animal Sciences. 64(11): 1264-1267.
- 8.22 Mburu, J. N. J. M. Kamau and **M.S. Badamana** (1993). Changes in serum levels in vitamins B12, feed intake, live weight and Hematological parameters in Deficient Small East African Goats. Internat. J. Vit. Nutr. Res 63 (1993) : 135 – 139.
- 8.23 **Badamana M.S.** (1992). Some factors affecting diet digestibility in goats, Bulls, Anim. Prod. Afr. (1992), 40,267-274.
- 8.24 **Badamana M.S.**, (1992). Forage utilization by dairy goats. Bull Anim. Prod. Afri. (1992). 40: 259-266.
- 8.25 **Badamana M.S.** and J. D. Sutton, (1992). Hay intake Milk production and Rumen fermentation in British Saanen goats given concentrates varying widely in protein concentration. J. British Soc. Anim. Prod. 54: 395-403.
- 8.26 **Badamana M. S.**, J. D. Sutton, J. D. Oldman and A. Mowlem, (1990). The effect of amount of protein in the concentrates on hay intake and rate of passage, diet digestibility and milk production in British Saanen goats. J. Brit. Soc. Anim. Prod. 51: 333-342.

9. COMMUNITY SERVICES:

9.1 SHARIA BOARD MEMBER OF ISLAMIC FINANCE INSTITUTIONS AND OTHER ISLAMIC ORGANIZATIONS.

- 9.1.1 Chairman of Sharia Supervisory Board for Gulf African Bank, Kenya, from 2007 to-date.
- 9.1.2 Chairman of Takaful KenyaRe cooperation limited, Kenya from July 2012 to date
- 9.1.3 A member of Sharia Supervisory Board of East Africa Bank Djibouti, Place du 27 Juin, P.O. Box 2022, Djibouti, Republic of Djibouti from 2010 to-date.
- 9.1.4 A member of Sharia Supervisory Board of Amana Bank, Tanzania from 11th August 2011 to-date.
- 9.1.5 A member of Sharia Supervisory Board of The National Bank of Kenya starting from 2013 to-date.
- 9.1.6 A member of Jamia mosque committee in Nairobi and also a representative of Jamia Committee in the Majlis of Ulamaa (scholars) of the Jamia Mosque committee.

9.2 TEACHING ISLAMICS AND EXTERNAL EXAMINING AT PUBLIC UNIVERSITIES IN KENYA

- 9.2.1 Taught and examined students of University of Nairobi, College of External Education Kikuyu Campus at Dept. of Philosophy and religious studies, Quranic Arabic, Islamic law (sharia), Islam in East Africa, Modern Islamic movements and Islamic ethics in 2000 and 2001.
- 9.2.2 I acted as an external examiner for Kenyatta University for both MA and PhD. thesis in Islamics, Department of Philosophy and Religious Studies in 2003.

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