UNIVERSITY OF EMBU

STAFF WEBSITE PROFILE

Name: Salome Atieno Migose

Title/Qualification: PhD.

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Short Biography

Dr. Migose is an alumnus of Wageningen University of the Netherlands where she attained her PhD in Livestock Production Systems, since 2020. Dr Migose did her MSc. in Animal Science (Animal Breeding option) and BSc in Animal Sciences at Egerton University, Njoro, Kenya.

In 2012, she was a beneficiary of the fellowship from the Netherlands Organization for International Cooperation in Higher Education (NUFFIC) under a collaborative project between Egerton University and Wageningen University titled "Competent graduates for enhanced competitiveness in the dairy value chain" under the Netherlands Initiative for Capacity Development in Higher Education (NICHE-KEN-127).

Her PhD study focused on understanding smallholder farming systems to improve dairy development in Kenya. Results of her work were presented at the 66th Annual meeting of European Federation of Animal Production (EAAP) in 2015, at Tropentag in 2015 and at the Wageningen Institute of Animal Sciences (WIAS) Science day in 2019. Two manuscripts related to the chapters of her PhD thesis are published and two manuscripts are submitted to peer-reviewed scientific journals.

Dr Migose has gained much experience in training, research and extension in livestock production over the last 15 years. Prior to joining the University of Embu where he has been for the past 8 years, Dr Migose was involved in livestock extension while working at Livestock Recording Centre (LRC) of the Ministry of Agriculture Livestock and Fisheries, in projects such as east African agricultural productivity project (EAAPP), a collaborative project between the ministry and KARI (now KALRO) particularly in developing the productivity of dairy cattle through registration, recording and genetic evaluation. Dr Migose continues to network with Ministry of Agriculture, KALRO, ACTS, Performeter, and Sasini, among others. She is supervising one PhD and three Msc students in various projects among them identifying resilient livestock breeds and feed technologies for climate smart production systems for the Kenyan highlands and ASALs, under the KCSAP scholarship among others. She also provides mentorship to undergraduate students. She is involved in community outreach and extension activities with like-minded partners such as CARITAS. Besides, she is the chair of the livestock management sub-committee of the University farm, an Online and Distance Education and eLearning (ODeL) champion, and a member of the University Income generating projects (IGA) committee.

Research Interests

Livestock Production Systems, Animal breeding, animal feeds and feeding, livestock value chains, and matching breeding and feeding practices with production systems, climate change, sustainable food systems.

Publications in Journals

1. Mutunga,TK., Musalia, LM., Gichimu, B., & **Migose, S. A.** (**2023**). DAIRY GOAT PRODUCTION IN KENYA: A REVIEW. *African Journal of Food, Agriculture, Nutrition & Development, 23*(7).
2. Njue, P. N., Isaboke, H. N., & **Migose, S. A. (2023)**. Contribution of dairy goat farming to household dietary diversity among smallholder farmers in the Central Highlands of Kenya. *Journal*

of Agriculture and Rural Development in the Tropics and Subtropics, 124(1), 1–11. https://doi.org/10.17170/kobra-202302217524

3. **Migose, S.A**., van der Linden, A., Bebe, B.O., de Boer, I.J.M., Oosting, S.J., **2020**. Accuracy of estimates of milk production per lactation from limited test-day and recall data collected at smallholder dairy farms. *Livestock Science* 232, 103911. https://doi.org/10.1016/j.livsci.2019.103911
4. **Migose, S.A.**, Bebe, B.O., de Boer, I.J.M., Oosting, S.J., **2018**. Influence of distance to urban markets on smallholder dairy farming systems in Kenya. *Tropical Animal Health and Production* 50, 1417- 1426.
5. Ilatsia, E., **Migose, S.**, Muhuyi, W., and Kahi, A., **2011**. Sahiwal cattle in semi-arid Kenya: genetic aspects of growth and survival traits and their relationship to milk production and fertility, *Tropical Animal Health and Production*, 43, 1575
6. Ilatsia, E. D., **S. A. Migose**, T. M. Magothe, T. K. Muasya, A. K. Kahi. **2007**. Genetic parameters and annual trends for 305-Day milk yield of Bostaurus dairy cattle breeds in Kenya. *International Journal of Cow Science*. 3: 20-23.

Presentation of Papers at Academic and Professional Conferences

1. **Migose, S.A.**, de Boer, I. J. M., Bebe, B. O., & Oosting, S. J. **2019**. A positive deviant approach to understanding key factors of smallholder dairy development in Kenya. In WIAS Science Day 2019: Trade-Offs in Science, (pp. 23-23). Wageningen University & Research.
2. **Migose, S. A.**, Bebe, B. O., Oosting, S. J., & de Boer, I. J. M. **2015**. Sustainable dairy development in the Kenyan highlands: Effect of market quality on smallholder farming systems. In Tropentag 2015.

3. **Migose, S. A.**, Bebe, B. O., & Oosting, S. J. **2015**. Sustainable dairy intensification in Kenya: Typologies of production systems and breeding practices. In Book of Abstracts 66th Annual Meeting of the European Federation of Animal Science (Vol. 21, pp. 342-342).
4. **Migose S. A.**, E. D. Ilatsia, C. B. Wasike, W. B. Muhuyi and A. K. Kahi. **2007**. Sex specific parameter estimates for growth traits in Bosindicus cattle. In: proceedings of Animal Production Society of Kenya Annual Scientific Conference, 15th to 16th March 2007, Mtwapa, Kenya.
5. Githinji, M. G., T. K. Muasya, E. D. Ilatsia, A. W. Murage, **S. A. Migose. 2007**. Pig production characteristics and constraints. A case study among smallholder farmers in four districts of Kenya. In: Proceeding of the Animal Production Society of Kenya Annual Scientific Conference, 15th to 16th March 2007, Mtwapa, Kenya.
6. **Migose S. A.**, E. D. Ilatsia, C. B. Wasike, W. B. Muhuyi and A. K. Kahi. **2006**. Maternal (co)variance components for growth traits in Sahiwal cattle. In: Proceedings of 10th biennial KARI scientific conference, 13th – 17th November 2006.
7. **Migose S. A.**, T. M. Magothe, T. K. Muasya, E. D. Ilatsia and A. K. Kahi. **2006**. Milk production and reproductive performance of Bostaurus dairy breeds in Kenya. Proceedings of the Tanzania Society of Animal Production annual Scientific conference, 24th – 26th October, 2006, Moshi, Tanzania.
8. Ilatsia E. D., **S. A. Migose**, W. B. Muhuyi and A. K. Kahi. **2006**. Genetic and environmental trends for milk production and growth traits of the Sahiwal cattle in Kenya. In: Proceedings of the Tanzania Society of Animal Production annual Scientific conference, 24th – 26th October, 2006, Moshi, Tanzania.
9. **Migose S. A.**, E. D. Ilatsia, W. B. Muhuyi and A. K. Kahi. **2006**. Direct and maternal (co)variance components and genetic parameters for growth traits in the Sahiwal cattle in Kenya. 8th World Congress on Genetics Applied to Livestock production, 13th – 18th August 2006, Belo Horizonte Brazil.

10. **Migose S. A.**, E. D. Ilatsia, W. B. Muhuyi and A. K. Kahi. **2006**. Growth performance of the Sahiwal cattle in semi-arid Kenya. In: proceedings of APSK 2006 annual symposium, 8th – 10th March, 2006, Isiolo, Kenya.
11. Magothe, T. M., E. D. Ilatsia, C. B. Wasike, **S. A. Migose** and A. K. Kahi. 2006. Genetic evaluation of milk production of Bostaurus dairy breeds in Kenya. In: Proceedings of 10th biennial KARI scientific conference, 13th – 17th November 2006.

Books/Book Chapters Published

1. **Migose S. A. 2020**. Addressing variation in smallholder farming systems to improve dairy development in Kenya. (PhD. Thesis. Wageningen University & Research, Wageningen Netherlands)
2. **Migose S. A. 2013**. Genetic Evaluation of Growth of Sahiwal Cattle in SemiArid Kenya. Lamberd Publishers. 9783659480447. http://www.bookdepository.com
3. **Migose S. A. 2011**. Genetic Evaluation of Growth of the Sahiwal Cattle in semi-arid Kenya.MSc. Thesis. Egerton University, Njoro.