



Dr. Justine Nambi-Kasozi
Senior Lecturer / Animal Scientist

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and Environmental Sciences (CAES)/ School of Agricultural Sciences (SAS)/
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About/Introductory statement

Justine Nambi-Kasozi holds a B.Sc in Agriculture (1997) and an M.Sc in Animal Science (2001) from Makerere University, Uganda. She obtained a PhD in Animal Science on a sandwich programme between Makerere University and the Swedish University of Agricultural Sciences in 2009. Justine teaches Dairy Production/Science, Applied Animal Nutrition and Ruminology at undergraduate and graduate levels. She has undertaken a number of general certificate courses to mention but a few; “Geographical Information Systems”, “Teacher in Higher Education: Role and Pedagogy”, “Experimental Data Analysis”, “Advanced Gender Research Methodology”, “Principles of Analytical Methods in Nutrition and Biology”, “Research Methods”, “Integrated Small-holder Dairy Farming Systems in Peri-urban Areas” and “Computer skills in MSTAT, SAS, and SPSS for Windows”. Her research interests are in the field of Ruminant Nutrition and Dairy Science/Production especially in utilisation of

non-conventional feedstuffs for ruminant animals, animal nutrition, dry season feeding strategies, feed formulation and mixing, forage conservation techniques and in the development of feed data bases and feed evaluation techniques. Justine has twenty-six years of teaching, research and other working experience in Animal Agriculture. She has carried out research on various animal feed resources, proper animal nutrition and management of both small and large ruminants both on-station and on-farm. She has published widely in internationally reputable peer reviewed scientific journals in the field of Animal Agriculture and her work has been widely cited by a number of researchers. She has presented her work at several local and international conferences and some of her work has received international recognition.

Qualifications

- PhD (Animal Nutrition), Makerere University, 2008
- M. Sc in Animal Sc, Makerere University, 1999
- B. Sc (Hons) in Agriculture, Makerere University, 1996

Other Activities

- External Examiner, Uganda Christian University. Mukono.
- Member, Developing a National Feed Security System; National Task Force, Ministry of Agriculture, Animal Industry and Fisheries; Funded by FAO.
- Member, Developing an Animal Feed Balance Sheet; National Task Force, Ministry of Agriculture, Animal Industry and Fisheries; Funded by FAO.
- Core Team Member; Developing an inventory of GHG emissions from cattle in Uganda, Ministry of Agriculture, Animal Industry and Fisheries project funded by the New Zealand government.

- Co-Principal Investigator; Developing equations for predicting feed intake by pastoral/agro-pastoral livestock: tackling uncertainty in the Uganda national enteric methane inventory. RUFORUM funded project.
- Member, Association of Uganda Professional Agriculturalists (ASUPA).
- Member, School Academic Board, School of Agricultural Sciences.
- Partner, Life Ministry Uganda.

Teaching

- B. Sc Agriculture
- B. Sc. Food Science and Technology
- B. Sc. Land Use Management
- B. Sc. Horticulture
- BARI
- Master of Science in Animal Science

Research

- ✓ Developing equations for predicting feed intake by pastoral/agro-pastoral livestock: tackling uncertainty in the Uganda national enteric methane inventory. Funded by Regional Universities Forum for Capacity Building in Agriculture (RUFORUM).
- ✓ Developing dry season feeding technologies for different cattle production systems in Uganda. Funded by the Ugandan Government through the Makerere University Research and Innovation Fund.
- ✓ Feed for livestock in urban and peri-urban areas. The research was funded by the Government of Sweden (through the Ministry of Foreign Affairs).

Research below was funded by the Swedish International Development Agency (SIDA)

- ✓ Effects of diets with varying levels of banana peelings on cattle manure composition.
- ✓ Effect of feeding the optimum level of banana peelings with other crop wastes on performance of lactating Friesian cows.

- ✓ Nutritional evaluation of banana peelings from the various banana varieties in the different regions of Uganda.
- ✓ Effects of feeding different levels of banana peelings and elephant grass each supplemented with cotton seed cake, maize bran and *Gliricidia sepium* on rumen environment, degradability and digesta kinetics of feeds.
- ✓ Effect of feeding varying levels of banana peelings supplemented with maize bran, cotton seed cake and *Gliricidia sepium* on the performance of lactating dairy cows.
- ✓ Effect of supplementing elephant grass, sweet potato vines, banana peels and maize leaves with legume tree foliage on the performance of lactating dairy goats.
- ✓ Effect of supplementing sweet potato based diets with different protein sources on weaner pig performance at Makerere University Agricultural Research Institute (MUARIK).

Community based work

- Committee Member, Kira Parish Mothers' Union Association.
- Treasurer, St. Mark's Church Najjera Mothers' Union Association.
- Chairperson, St. Mark's Church Najjera Mothers' Union Association (Served three terms).
- Vice Chairperson, Kira Parish Mothers' Union Association (Served one term).
- Member, St. Mark's Church Najjera Executive Committee (Served two terms).

Awards or special recognitions received

- **November 2008:** Presented a paper titled “Effects of banana peelings based diets on rumen environment, degradability and digesta kinetics of commonly used feeds in smallholder dairy production systems” in poster form at the 10th World Conference of Animal Production. The conference was held at the Cape Town International Convention Centre, Cape Town, South Africa. **Poster nominated among best posters.**
- **July 2005.** Won an International award for best poster at the XX International Grassland Congress which was held at the University College of Dublin, Ireland. The poster was titled “Nutritional evaluation of banana peelings from the various banana varieties in the different regions of Uganda.
- **June 1999:** Best presenter during a training course on integrated small holder dairy farming systems in peri-urban areas with special emphasis on utilization of forages and fodder trees. The training was held at Embu, Kenya.

Publications

1. **Nambi-Kasozi, J.**, Katongole, C. B, Bareeba, F. B., Sabiiti, E. N. (2021). 1. Utilisation and determinants of use of banana crop residues for animal feed or soil amendment on dairy cattle farms in Uganda's Western Banana-Coffee-Cattle farming system. *Tropical Agriculture* (Under review).
2. Birungi, R., Birungi, F. K, Matsiko, F., **Nambi-Kasozi, J.**, Dawit, G. M. and Woldegebrial, Z. (2020). Socio-psychological factors influencing upgrading intentions in smallholder pig value-chains: A study based on application of Theory of Planned Behaviour. *African Journal of Rural Development*. 5(4): 16-23.
3. Galla N. A., Nampija Z.; Lutwama V.; Mayanja S.; Grant F.; Kyalo G.; Kiggundu M.; Zziwa E.; **Nambi-Kasozi, J.** (2020). Effects of inclusion levels of sweet potato vine silage on feed intake, milk production and profitability of lactating crossbred dairy cows. *Open Journal of Animal Sciences*. 10: 608-617
4. **Nambi-Kasozi, J.**, Sabiiti, E. N, Bareeba, F. B., Sporndly, E. and Kabi, F. (2016). Effects of inclusion levels of banana (*Musa spp.*) peelings on feed degradability and rumen environment of cattle fed basal elephant grass. *Trop. Anim. Health Prod.* 48: 693-698.
5. Kasule, L., Katongole, C. B., **Nambi-Kasozi, J.**, Lumu, R., Bareeba, F. B., Presto, M., Ivarsson, E. and Lindberg J. E. (2014). Low nutritive quality of own-mixed chicken rations in Kampala City, Uganda. *Agron. Sustain. Dev.* 34(4):921-926.
6. **Nambi-Kasozi, J.**, Sabiiti, E. N, Bareeba, F. B and Sporndly, E. (2014). Effect of feeding varying levels of banana peelings supplemented with maize bran, cotton seed cake and *Gliricidia sepium* on the performance of lactating dairy cows. *Afr. J. Agric. Res.* 9(8):720-727.
7. Lumu, R., Katongole, C. B, **Nambi-Kasozi, J.**, Bareeba, F., Presto, M., Ivarsson, E. and Lindberg, J. E. (2013). Indigenous knowledge on the nutritional quality of urban and peri-urban livestock feed resources in Kampala, Uganda. *Trop. Anim. Health Prod.* 45(7):1571-1578.

8. Katongole, C. B., **Nambi-Kasozi, J.**, Lumu, R., Bareeba, F., Presto, M., Ivarsson, E. and Lindberg, J. E. (2012). Strategies for coping with feed scarcity among urban and peri-urban livestock farmers in Kampala, Uganda. *J. Agr. Rural Dev. Trop.* 113(2):165-174.
9. **Nambi-Kasozi, J.**, Bareeba, F. B., Sabiiti, E. N. and Sporndly, E., 2009. Effect of feeding different levels of banana peelings on the rumen environment, degradability and digesta kinetics of cattle fed a basal diet of elephant grass. In: Chilliard, Y., Glasser, F., Faulconnier, Y., Bocquier, F., Veissier, I. and Doreau, M. (eds.) *Ruminant physiology: digestion, metabolism, and effects of nutrition on reproduction and welfare*. Proceedings of the XIth International Symposium on Ruminant Physiology, Clermont-Ferrand, France, September 6th- 9th, 2009, p. 292-293. Wageningen Academic Publishers, The Netherlands.
10. **Nambi-Kasozi, J.**, Sabiiti, E. N., Bareeba, F. B., Sporndly, E. and Kabi, F. (2008). Effects of banana peelings based diets on rumen environment, degradability and digesta kinetics of commonly used feeds in smallholder dairy production systems. Proceedings of the World Conference of Animal Production conference from 23rd – 28th November held at the Cape Town Convention Centre, Cape Town, South Africa.
11. **Nambi-Kasozi, J.**, Sabiiti, E. N., Bareeba, F. B. and Sporndly, E. (2004). Nutritional evaluation of banana peelings from the various banana varieties in different regions of Uganda. XX International Grassland Congress, held at the University College Dublin in Dublin, Ireland from 26th June to 1st July. Eds: O'mara, F. P *et al.*, 2005. p. 282.
12. **Nambi-Kasozi, J., Sabiiti, E. N and Bareeba, F. B. (2004)**. Urban market crop wastes: Valuable animal feed resources in the crop/livestock production systems in Uganda. The 2nd Joint Congress of the Grassland Society of Southern Africa and the South African Society of Animal Science .The Paradigm of Efficiency and Sustainability. Book of

Abstracts. 28th June – 1 July, Goudini Spa, South Africa.

13. **Nambi-Kasozi, J.**, Sabiiti, E. N and Bareeba, F. B. (2004). Effect of feeding varying levels of banana peelings supplemented with maize bran, cotton seed cake and *Gliricidia sepium* on the performance of lactating dairy cows. Proceedings of the Regional Conference on Livestock Revolution: Challenges and opportunities for livestock industry in East Africa. 15th – 18th March 2004, held at Kenya Agricultural Research Institute, Nairobi – Kenya.
14. **Nambi, J.**, Mutetikka, D and Bareeba, F. B. (2001). Response of lactating dairy goats on diets of banana peels, maize leaves and sweet potato vines, supplemented with legume tree forage. Proceedings of The 28th Tanzania Society of Animal Production Scientific Conference held at TANESCO Conference Hall Morogoro between 6th -10th August 2001. Vol. 28.
15. **Nambi, J.**, Mutetikka, D. and Bareeba, F. B. (2001). Performance of lactating dairy goats fed diets of sweet potato vines, banana peels and maize leaves supplemented with legume tree foliage. MUARIK BULLETIN. 4: 43-48.