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### Qualifications

PhD – Makerere University  
MSc. Animal Science – Makerere University  
BSc. Agriculture (Hons) – Makerere University

### Biography

Dr. Constantine Bakyusa Katongole is Senior Lecturer in the Department of Agricultural Production (Makerere University, Kampala). He holds a PhD in Animal Science). As a researcher, Constantine is particularly interested in livestock feeding systems, nutrient metabolism in animals, measurement and prediction of emissions from animals, smallholder urban livestock, and small ruminant systems.

### Teaching

Animal nutrition  
Animal feeds and feeding  
Zoology and animal physiology  
Non-ruminant nutrition  
Municipal and farm organic waste management

### Publications

1. Mugambe, R.K., Nuwematsiko, R., Ssekamatte, T., Nkurunziza, A., Wagaba, B., Isunju, J.B., Wafula, S.T., Nabaasa, H., **Katongole, C.B.**, Atuyambe, L.M. and Buregyeya, E. 2022. Drivers of solid waste segregation and recycling in Kampala slums, Uganda: A qualitative exploration using the behaviour centred design model. International Journal of Environmental Research and Public Health. 19: 10947. DOI: <https://doi.org/10.3390/ijerph191710947>

2. Nasaka, J., Nizeyi, J.B., Okello, S. and **Katongole, C.B.** 2022. Sun-drying as an effective strategy to reduce total oxalate and phytate contents of plant leaves commonly used in quail feeding in Uganda. *Tropical Agriculture*. 99(2): 166-176.
3. **Katongole, C.B.** and Yan, T. 2022. The effects of dietary crude protein level on ammonia emissions from slurry from lactating Holstein-Friesian cows as measured in open-circuit respiration chambers. *Animals*. 12: 1243. DOI: <https://doi.org/10.3390/ani12101243>
4. **Katongole, C.B.**, Lumu, R. and Lindberg, J.E. 2021. Comparative chemical composition and rumen degradation of common reed and elephant grass in urban/peri-urban dairying systems in Uganda. *Agroecology and Sustainable Food Systems*. 45(6): 892-906. DOI: <https://doi.org/10.1080/21683565.2021.1896618>
5. **Katongole, C.B.** and Yan, T. 2020. Effect of varying dietary crude protein level on feed intake, nutrient digestibility, milk production, and nitrogen use efficiency by lactating Holstein-Friesian cows. *Animals*. 10(12): 2439. <https://doi.org/10.3390/ani10122439>.
6. Nampanzira, D.K., **Katongole, C.B.** and Asizua, D. 2020. Effect of soaking of *Ficus natalensis* Hochst. leaves in different solutions on intake, digestibility and nitrogen balance in goats. *Agroforestry Systems*. 94: 607–613. DOI: <https://doi.org/10.1007/s10457-019-00432-1>
7. Nampanzira, D.K., **Katongole, C.B.**, Muwanka, V.B. and Tabuti, J.R.S. 2019. Are livestock keepers in and around forests key stakeholders in forest management? Experiences from Mabira central forest reserve, Uganda. In: Bamutaze Y., Kyamanywa S., Singh B., Nabanoga G., Lal R. (eds) *Agriculture and Ecosystem Resilience in Sub Saharan Africa. Climate Change Management*. Springer, Cham. pp 343-355. DOI [https://doi.org/10.1007/978-3-030-12974-3\\_16](https://doi.org/10.1007/978-3-030-12974-3_16)
8. Nasaka, J., Nizeyi, J.B., Okello, S. and **Katongole, C.B.** 2018. Nutritional quality of quail feeds used in urban and peri-urban areas of Uganda: Chemical and energy composition. *Poultry Science Journal*. 6(1): 63-70. DOI doi: 10.22069/psj.2018.14150.1294

9. **Katongole, C.B.**, Bakeeva, A., Passoth, V. and Lindberg, J.E. 2017. Effect of solid-state fermentation with *Arxula adenivorans* or *Hypocrea jecorina* (anamorph *Trichoderma reesei*) on hygienic quality and in-vitro digestibility of banana peels by mono-gastric animals. *Livestock Science*. 199: 14-21. DOI <https://doi.org/10.1016/j.livsci.2017.03.002>
10. Nasaka, J., Nizeyi, J.B., Okello, S. and **Katongole, C.B.** 2017. Characterization of feeding management practices of quails in urban areas of Uganda. *Journal of Animal and Veterinary Advances*. 16(8-12): 92-100.
11. Nampanzira, D.K., Kabasa, J.D., **Katongole, C.B.**, Okello, S. and Tabuti, J.R.S. 2017. Ameliorative effects of *Ficus* and *Harrisonia* diets on Small East African goat meat yield. *Small Ruminant Research*. 153: 189-193. DOI <https://doi.org/10.1016/j.smallrumres.2017.06.014>
12. **Katongole, C.B.**, Kabirizi, J.M., Nanyeenya, W.N., Kigongo, J. and Nviiri, G. 2016. Milk yield response of cows supplemented with sorghum stover and *Tithonia diversifolia* leaf hay diets during the dry season in northern Uganda. *Tropical Animal Health and Production*. 48(7): 1463-1469. DOI: <https://doi.org/10.1007/s11250-016-1119-1>
13. Sabiiti, E.N. and **Katongole, C.B.** 2016. Role of peri-urban areas in the food system of Kampala, Uganda. In: Basant Maheshwani, Vijay P. Singh and Bhadrani Thoradeniya (Eds.), *Balanced Urban Development: Options and Strategies for Liveable Cities*. *Water Science and Technology Library* 72: 387 - 392, Springer International Publishing. DOI: [https://doi.org/10.1007/978-3-319-28112-4\\_23](https://doi.org/10.1007/978-3-319-28112-4_23)
14. Nampanzira, D.K., Kabasa, J.D., **Katongole, C.B.**, Okello, S. and Tabuti, J.R.S. 2016. Natural gastro properties of *Ficus natalensis*, *Rhuss natalensis* and *Harrisonia abyssinica* in native East African goats. *Livestock Science*. 187: 31-34. DOI: <http://dx.doi.org/10.1016/j.livsci.2016.02.001>
15. Kasule, L., **Katongole, C.**, Nambi-Kasozi, J., Lumu, R., Bareeba, F., Presto, M., Ivarsson, E. and Lindberg, J.E. 2014. Low nutritive quality of own-mixed chicken rations in Kampala City, Uganda. *Agronomy for Sustainable Development*. 34: 921-926.

DOI: <https://doi.org/10.1007/s13593-013-0205-2>

16. Sabiiti, E.N. and **Katongole, C.B.** 2014. Urban Agriculture: A Response to the food supply crisis in Kampala city. In: Basant Maheshwani, Ramesh Purohit, Hector Malano, Vijay P. Singh and Priyanie Amerasinghe (Eds.), *The Security of Water, Food, Energy and Liveability of Cities*. Water Science and Technology Libriray 71: 233 - 242, Springer Netherlands. DOI: [https://doi.org/10.1007/978-94-017-8878-6\\_17](https://doi.org/10.1007/978-94-017-8878-6_17)

17. Wredle, E., **Katongole, C.** and Magnusson, B. 2014. Prospects for small ruminant production in cities - more than the poor man's cow. In: Ulf Magnusson and Kristin Follis Bergman (Eds), *Urban and Peri-urban Agriculture for Food Security in Low-income Countries – Challenges and Knowledge Gaps*. SLU Global. pp 56 – 59. ISBN: 978-91-576-9229-0 (print), 978-91-576-9230-6 (electronic)

18. Sabiiti, E. N., **Katongole, C. B.**, Katuromunda, S., Sengendo, H., Basalirwa, C. P., Atukunda, G. and Nambuubi, S. K. 2014. Building Urban Resilience. Assessing Urban and Peri-urban Agriculture in Kampala, Uganda. In: Padgham, J. and Jabbour, J. (Eds.). *United Nations Environment Programme (UNEP)*, Nairobi, Kenya. [www.start.org/upa/kampala.pdf](http://www.start.org/upa/kampala.pdf)

19. 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. *Tropical Animal Health and Production*. 45: 1571 - 1578. DOI: <https://doi.org/10.1007/s11250-013-0401-8>

20. **Katongole, C.B.**, Mpairwe, D., Bareeba, F.B., Mukasa-Mugerwa, E. and Ebong, C. 2013. Predicting body weight from heart girth, height at withers and body condition score in *Bos indicus* cattle bulls of Uganda. *Livestock Research for Rural Development*. 25(3). <http://www.lrrd.org/lrrd25/3/kato25046.htm>

21. Lukuyu, B., Baker, D., Baltenweck, I., Poole, J., Kabi, F., **Katongole, C.**, Nadiope, G., Byarugaba, A., Kugonza, J. and Wabwire, R. 2013. *The Concentrate Feeds Supply chain in Uganda: Emerging trends and implications on quality and access to smallholder farmers and chain efficiency*. Nairobi, Kenya: East Africa Dairy Development Project (EADD). <https://cgspace.cgiar.org/handle/10568/34469>

22. **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. *Journal of Agriculture and Rural Development in the Tropics and Subtropics*. 113(2): 165-174.
23. **Katongole, C.B.**, Sabiiti, E., Bareeba, F. and Ledin, I. 2011. Utilization of market crop wastes as animal feed in urban and peri-urban livestock production in Uganda. *Journal of Sustainable Agriculture*. 35(03): 329 - 342.
24. Lumu, R. and **Katongole, C.** 2011. Comparative reduction of oxalates from New Cocoyam (*Xanthosoma sagittifolium*) leaves by four processing methods. *Livestock Research for Rural Development*. 23(1). <http://www.lrrd.org/lrrd23/1/lumu23020.htm>
25. **Katongole, C.B.**, Bareeba, F.B., Sabiiti, E.N. and Ledin, I. 2009. Intake, growth and carcass yield of indigenous goats fed market wastes of sweet potato (*Ipomoea batatas*) vines and scarlet eggplant (*Solanum aethiopicum*). *Tropical Animal Health and Production*. 41: 1623-1631. DOI: <https://doi.org/10.1007/s11250-009-9357-0>
26. **Katongole, C.B.**, Sabiiti, E.N., Bareeba, F.B. and Ledin, I. 2009. Performance of growing indigenous goats fed diets based on urban market crop wastes. *Tropical Animal Health and Production*. 41: 329 – 336. DOI: <https://doi.org/10.1007/s11250-008-9193-7>
27. **Katongole, C.B.**, Bareeba, F.B., Sabiiti, E.N. and Ledin, I. 2008. Nutritional characterization of some tropical urban market crop wastes. *Animal Feed Science and Technology*. 142: 275-291. DOI: 10.1016/j.anifeeds.2007.09.002.
28. **Katongole, C.B.**, Bareeba, F.B., Mpairwe, D., Mukasa-Mugerwa, E. and Ebong, C. 2001. Nutritional effects on growth and carcass characteristics of Ankole, Nganda and Ankole x Friesian crossbred bulls. *MUARIK Bulletin*. 4: 1 - 5. ISSN 1563 – 3721.