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Professional Training and Experience	2010: PhD (Agriculture), Kampala, Uganda 2003: M.Sc. Agriculture (Animal Science), Kampala, Uganda 2016: M.B.A., Amity Business School, India 1997: B.Sc. Agriculture, Makerere University, Kampala, Uganda
Research Interests/Expertise	Performance improvement & Conservation of African Animal Genetic Resources, particularly I have gained acclaim working with cattle, goats, pigs, cavies, honeybees & various poultry species. Quality evaluation of animal & bee products is also of much interest.
Publications	<p><u>JOURNAL ARTICLES</u></p> <ol style="list-style-type: none"> 1. Onzima, R.B., Gizaw, S., Kugonza, D.R., van Arendonk, J.A.M. & Kanis, E. 2018. Production Systems, Breeding Objectives and Farmer Preferences for Indigenous Goat Breeds in Uganda. <i>Small Ruminant Research</i>, 163: 51-59. 2. Niyiragira, V., Kugonza, D.R. & Hirwa, C.D. 2018. Success Drivers of Pig Artificial Insemination Based on Imported Fresh Semen. <i>International Journal of Livestock Production</i>, 9(6): 102–107. 3. Siya, A., Kugonza, D.R. & Muwanika, V. 2018. Commercialisation of Alternative Livestock Feeds Could Save Fish Stocks in Lake Victoria. <i>African Journal of Tropical Hydrobiology & Fisheries</i>, 16: 48–50. 4. Akite, I., Kule, E., Mugonola, B., Aryemo, I.P., Kugonza, D.R. & Okot, M.W. 2018. Gender Dimensions in the Local Chicken Value Chain in Northern Uganda. <i>African Journal of Science, Technology, Innovation & Development</i>, 10: 367–380. 5. Bamundaga, G.K., Natumanya, R., Kugonza, D.R. & Owiny, D.O. 2018. Reproductive Performance of Single and Double Artificial Insemination Protocol in Swine. <i>Bulletin of Animal Health & Production in Africa</i>, 66(1): 143-157. 6. Babigumira, B.M., Nabukalu, R.G., Masaba, J.K., Egadu, G.W., Mulindwa, E.H., Oluka, J. & Kugonza, D.R. 2018. Growth Characteristics of Sahiwal x Zebu F1 Crossbred Cattle in Uganda. <i>International Journal of Livestock Research</i>, 8(6): 35–40. 7. Gorla, E., Bertolini, F., Strillacci, M.G., Cozzi, M.C., Roman-Ponce, S.I., Ruiz, F.J., Vega, V.V., Dematawewa, C.M.B., Kugonza, D.R., Elbeltagy,

A., Schmidt, C.J., Lamont, S.J., Bagnato, A., Rothschild, M.F. **2018**. Genomic diversity using copy number variations in worldwide chicken populations. *International Journal of Animal Health & Animal Science Food Safety*, 5(1): 49–50.

- 8.** Lubandi, C., Lwasa, S., **Kugonza, D.R.**, Babigumira, B.M., Semahoro, F., Nadiope, G. & Okot, M.W. Analysis of the Indigenous Chicken Value Chain in Uganda. *African Journal of Rural Development (in press)*.
- 9.** Kiyimba, F., Kyarisiima, C.C. & **Kugonza, D.R.** Effect of dietary protein level on growth, survival and feed utilization in Guinea fowl keets. *African Journal of Rural Development, (in press)*.
- 10.** Hirwa, C.D., **Kugonza, D.R.**, Amahoro, E., Ingabire, C., Niyiragira, V., Myambi, C., Manzi, M., Murekezi, T., Nyabinwa, P., Nshimiyimana, A.M., Kanyandekwe, C. & Gahakwa, D. **2017**. Influence of Breed, Season & Age on Bovine Semen Used for Artificial Insemination. *International Journal of Livestock Production*, 8(6): 72–78.
- 11.** Hirwa, C.D., **Kugonza, D.R.**, Murekezi, T., Rwemarika, J.D., Kayitesi, A., Musemakweri, A., Shabayiro, J.P., Shumbusho, F., Manzi, M. & Safari, T. **2017**. Management and Phenotypic Features of Indigenous Cattle in Rwanda. *International Journal of Livestock Production*, 8(7): 95–112.
- 12.** Elbeltagy, A., Bertolini, F., Fleming, D., Van Goor, A., Ashwell, C., Schmidt, C., **Kugonza, D.R.**, Lamont, S. & Rothschild, M. **2017**. Evidence of natural selection footprints among some African chicken breeds and village ecotypes. *International Journal of Animal & Veterinary Sciences*, 11(8), urn:dai:10.1999/1307-6892/63529
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- 14.** Aryemo, I.P., Kule, E., **Kugonza, D.R.**, Okot, M.W. & Mugonola, B. **2016**. Extent of commercialization of indigenous chicken production in Northern Uganda. *RUFORUM Working Document Series*, 14(2): 951 – 956.
- 15.** Nabikyu, J.R. & **Kugonza, D.R.** **2016**. Profitability Analysis of Selected Piggery Businesses in Peri-urban Communities of Kampala, Uganda. *Livestock Research for Rural Development*, 28(5): 1–10.

- 16.** Kayitesi, A., Nakkazi, C., Kugonza, D.R., Okot, M.W. & Mulindwa, H. **2016.** Local Chicken Production in Northern Uganda: Breeding Practices & Flock Productivity. In: *Research Application Summary* pp. 291–292.
- 17.** Kugonza, D.R., Lubandi, C., Kirembe, G., Taabu, H.L. & Lusembo, P. **2015.** Effect of Genotype & Post-weaning Diet in Enhancing Pig Production within Lake Victoria Crescent in Uganda. *Agricultural Innovations for Sustainable Development*, 4(3): 296–304.
- 18.** Nakkazi, C., Kugonza, D.R., Kayitesi, A., Mulindwa, H. & Okot M.W. **2015.** The Effect of Diet & Feeding System on the On-farm Performance of Local Chickens during the Early Growth Phase. *Livestock Research for Rural Development*, 27(10): 1–11.
- 19.** Semakula, J., Lusembo, P., Mwesigwa, M., Ssenyonjo, J., Lumu, R., Kugonza, D.R. & Mutetikka, D. **2015.** Infectious Causes of Mortality in Smallholder Mature Scavenging Chickens in Central Uganda. *Livestock Research for Rural Development*, 27(4): 1–8.
- 20.** Kugonza, D.R., Stalder, K. & Rothschild, M.F. **2014.** Effect of Buck and Doe Size on the Growth Performance & Survival of their Progeny. *Livestock Research for Rural Development*, 26(3):1–8.
- 21.** Nakkazi, C., Kayitesi, A., Mulindwa, H., Kugonza, D.R. & Okot, M.W. **2014.** The Status of Local Chickens (*Gallus domesticus*) Production in Northern Uganda. *Livestock Research for Rural Development*, 26(11): 1–9.
- 22.** Kabugo, S., Mutetikka, D., Mwesigwa, R., Beyihayo, G.A. & Kugonza, D.R. **2014.** Utilisation of Brewers' Yeast as a Substitute for Fish Meal in Diets of Growing Pigs. *African Journal of Agricultural Science & Technology*, 2(5): 116–121.
- 23.** Kugonza, D.R., Kayitesi, A., Semahoro, F., Ingabire, D., Manzi, M., Hirwa, C.A. & Gahakwa, D. **2013.** Factors affecting Suitability of Surrogate Dams for Embryo Transfer in Cattle. *Journal of Animal Science Advances*, 3(4): 203–210.
- 24.** Musoni, A., Kugonza, D.R. & Gahakwa, D. **2013.** Do Neighbours of Agricultural Research Stations Learn Anything From Them: the Case of Rubona station, Rwanda. *Livestock Research for Rural Development*, 25(11): 1–9.
- 25.** Mwesigwa, R., Mutetikka, D. & Kugonza, D.R. **2013.** Performance of

Growing Pigs Fed Diets Based on By-products of Maize & Wheat Processing. *Tropical Animal Health & Production*, 45(2): 441–446.

26. Kagoya, T., Natukunda, K. & **Kugonza, D.R. 2013**. Profitability of Smallholder Dairy Cattle Farming in the Kamuli Plains of Eastern Uganda. *Agricultural Journal*, 8(5): 248–255.
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30. **Kugonza, D.R.**, Kiuwa, G.H., Mpairwe, D., Jianlin, H., Nabasirye, M., Okeyo, A.M. & Hanotte, O. **2012**. Accuracy of Pastoralists' Memory Based Kinship Assignment of Ankole Cattle: a Microsatellite DNA Analysis. *Journal of Animal Breeding & Genetics*, 129: 30–40.
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- 36.** Mujuni, A. Natukunda, K. & **Kugonza, D.R.** **2012**. Factors Affecting the Adoption of Beekeeping and Associated Technologies in Bushenyi District. *Livestock Research for Rural Development*, 24(8): 1-16.
- 37.** **Kugonza, D.R.**, Nabasiye, M., Mpairwe, D., Hanotte, O. & Okeyo, A.M. **2011**. Productivity & Morphology of Ankole Cattle in Three Livestock Production Systems in Uganda. *Animal Genetic Resources*, 48: 13–22.
- 38.** **Kugonza, D.R.**, Jianlin, H., Nabasiye, M., Mpairwe, D., Kiwuwa, G.H., Okeyo, A.M. & Hanotte, O. **2011**. Genetic diversity & differentiation of Ankole cattle populations in Uganda inferred from microsatellite data. *Livestock Science*, 135: 140–147.
- 39.** Natukunda, K., **Kugonza, D.R.** & Kyarisiima, C.C. **2011**. Indigenous chickens of the Kamuli Plains in Uganda: I. Production System & Flock Dynamics. *Livestock Research for Rural Development*, 23(10): 1-13.
- 40.** Natukunda, K., **Kugonza, D.R.** & Kyarisiima, C.C. **2011**. Indigenous Chickens of the Kamuli Plains in Uganda: II. Factors Affecting their Marketing & Profitability. *Livestock Research for Rural Development*, 23(10): 1-8.
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BOOKS AND BOOK CHAPTERS

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- 56. Ojango, J.M.K., Mrode, R., Okeyo, A.M., Rege, J.E.O., Chagunda, M.G.G. & Kugonza, D.R. 2017.** Improving Smallholder Dairy Farming in Africa. In: Belzen, N. Van. 2017. Achieving Sustainable Production of Milk Vol. 2: Safety, quality & sustainability. Cambridge, UK: Burleigh Dodds Science Publishing Limited, 1–26, <http://dx.doi.org/10.19103/AS.2016.0005.38>. (Book Chapter 38).
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- 59. Kugonza, D.R. 2013.** Apiculture and Food security. In: Mukungurutse, C., Mbeye, N., Zhang, Y. & Liu, D. (Eds). Sustainable agriculture & food security: National and Global perspectives. International Rural Development (IRD) Matters. Spring 2013 Edition. Royal Agricultural College, Gloucestershire, UK. 36 pp.
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64. Kugonza, D.R., Hirwa, C.A., Rwemalika, D., Mayigane, L.N., Safari, S., Kayitesi, A. & Gahakwa, D. Kuroiler chickens: A New Chicken Ecotype for Rwanda, its Growth & Survival Performance under Restricted Range Conditions (*CABI Book - in Press*).

65. Hirwa, C.D., **Kugonza, D.R.**, Manzi, M., Murekezi, T., Nyabinwa, P., Semahoro, F., Rwemalika, D., Nshimiyimana, A.M. & Gahakwa, D. Efficacy of Progesterone Releasing Intra-vaginal Device (PRID) in Pure Ankole Cattle & Crossbreds with Three Exotic Breeds (*CABI Book - in Press*).

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80. Aryemo, I.P., Kule, E., **Kugonza, D.R.**, Okot, M.W. & Mugonola, B. **2016.** Extent of commercialization of indigenous chicken production in Northern Uganda. 5th African Higher Education Week & RUFORUM Biennial Conference. October, 17–21, 2016, Century City Conference Centre, Cape Town, South Africa.

81. Akite, I., Mugonola, B., Okot, M.W., **Kugonza, D.R.** & Kule, E. **2016.** Gender participation in the local chicken value chain in northern Uganda. 5th African Higher Education Week & RUFORUM Biennial Conference. October, 17–21, 2016, Century City Conference Centre, Cape Town, South Africa.

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progeny. 6th All Africa Conference on Animal Agriculture. Theme: *“Africa’s Animal Agriculture: Macro-trends & future opportunities”*, October 26–30, 2014, Kenyatta International Conference Centre, Nairobi, Kenya.

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- 145.** Mwiza, W.K., Kanyandekwe, C., Nshimiyimana, A.M., Mukamurenzi, E. & **Kugonza, D.R.** Evaluation of three Varroacides in Honeybee *Apis mellifera* (Hymenoptera: Apidae) colonies in Rwanda.
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	<p><u>NEWSPAPER CONTRIBUTIONS</u></p> <p>152. Pork demand outpacing supply. New Vision (August 30, 2017)</p> <p>153. When it's got to be pigs. New Vision (September 5, 2017)</p>
<p>Innovations Developed and Awards Won</p>	<p>Australia Africa Universities Network & Australia Africa Awards (2018)</p> <p>Best Alumna Award, Australia Africa Awards Short-Course on Increasing the Development Impact of Agricultural Research (IDIAR) (2017)</p> <p>Africa-wide Young Professionals in Science Award (by CTA, FARA, IFS, RUFORUM, ANAFE, NEPAD & AGRA R4D Consortium) (2013)</p> <p>Best Exhibitor Award (Institutions Category), National Agricultural Show (2010)</p> <p>Visiting Scientist, Iowa State University, College of Agric. & Life Sciences (2017)</p> <p>Fellow of the Uganda National Academy of Sciences (UNAS) (2017)</p> <p>International Congress Hidden Hunger Fellowship, University of Hohenheim (2015)</p> <p>All Africa Conference on Animal Agriculture Scholarship, Africa Society of Animal Production (ASAP), (2014)</p> <p>Visiting Scientist, Iowa State University, College of Agric. & Life Sciences (2013)</p> <p>Young Affiliate Nominee, Academy of Sciences for the Developing World (2012)</p> <p>International Atomic Energy Agency (IAEA) Fellowship (2004)</p> <p>PhD Tuition and Research Scholarship, NORAD (2003)</p> <p>M.Sc. Full Scholarship, DANIDA ENhancement of REsearch CAPacity Program (1997)</p> <p>B.Sc. Agriculture Scholarship (by Government of Uganda) (1992)</p>
<p>Research Projects</p>	<p>European Union & UNCST, LEAP-AGRI-326: Genetic Characterization of Cattle Populations for Optimized Performance in African Ecosystems (OPTIBOV (2018-2021)</p>

National Agricultural Research Organisation (NARO)–Competitive Grant Scheme (CGS), CGS/2/16/14: Establishing Boar Semen Centres & Database for Commercializing Liquid Boar Semen In Uganda (2017-2018)

Regional Universities Forum for Research on Agriculture (RUFORUM), RU-2015-GRG-122: Incorporating Climate Smart & Fast Growth Traits to Transform the Local Chicken Value Chain in Uganda, (2015-2017)

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Professional Membership and Activities	<p>Association of Uganda Professional Agriculturalists (ASUPA)– Member</p> <p>Africa Society of Animal Production (AASAP) – Member</p> <p>Domestic Animal Diversity Network - DAD-Net (hosted by FAO) – Member</p> <p>Entomological Society of Uganda – Member</p> <p>Forum for Agricultural Research in Africa – Member</p> <p>The Uganda National Apiary Development Organisation (TUNADO) – Member</p> <p>The Uganda Society – Member</p> <p>Uganda Goat Network (UGONET) – Founder Member</p> <p>Uganda National Academy of Sciences (UNAS) – Member</p> <p>Uganda Society of Animal Science (USAS) – Secretary (Ag.)</p> <p>South Africa Society of Animal Science (SASAS) – Journal Sub-Editor</p>