



# DONALD RUGIRA KUGONZA

## Curriculum Vitae

Associate Professor •

Makerere University, Dept. of Agricultural Production

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Makerere University,	
P.O. Box 7062, Kampala, Uganda	

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Rugira-Kugonza Investments, P. O. Box 113, Kigumba, Uganda (Permanent Home Address)

## WEBLINKS:

**Twitter:** <https://twitter.com/DonaldKugonza>

**Alt. E-mail:** [rugira.kugonza@mak.ac.ug](mailto:rugira.kugonza@mak.ac.ug); [donkugonza@gmail.com](mailto:donkugonza@gmail.com)

**LinkedIn:** <https://www.linkedin.com/in/donald-rugira-kugonza-phd-msc-mba-a3abab3b/>

**Google Scholar:** <https://scholar.google.com/citations?user=8yxmUV4AAAAJ&hl=en>

**Facebook:** <https://www.facebook.com/donald.kugonza>

**Instagram:** <https://donkugonza>

**ResearchGate:** <https://www.researchgate.net/profile/Donald-Kugonza>

**Academia.edu:** <https://independent.academia.edu/DonaldKugonza>

**ORCID:** <https://orcid.org/0000-0002-4873-6637>

## PERSONAL STATEMENT

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A passionate animal scientist, currently an Associate Professor of animal agriculture, apiculture, animal breeding and genetics at Makerere University; I get a rush from helping others succeed, a process catalyst, a mountaineer, science mentor and a change agent. Am highly motivated and result-driven, with 20 years of teaching, and collaborative research engagement focused on optimizing agricultural productivity through performance improvement of a wide array of African animal genetic resources. I have studied, published on and farmed pigs, goats, cattle and various poultry; possess international expertise in livestock breeding and genetics as well as in apiculture. I enjoy developing curricula that transform learners into doers and better citizens.

## ACADEMIC QUALIFICATIONS

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|-----------------|---|
| 1. <b>Ph.D.</b> | Agriculture (Animal Breeding & Genetics), Makerere University, January 2010<br><b>Thesis:</b> "Genetic diversity, husbandry, selection criteria & verification of kinship assignment of Ankole cattle populations in Uganda"<br><b>Major Adviser:</b> Prof. Olivier Hanotte, Nottingham University, UK. |
| 2. <b>M.Sc.</b> | Agriculture (Animal Science), Makerere University, January 2003<br><b>Dissertation:</b> "Phenotypic response to population screening criteria of indigenous meat goats in the field in Uganda and their genetic implication"  |

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- Major Adviser:* Prof. Poul Henning Petersen, The Royal Veterinary & Agricultural University, Denmark.
3. **M.B.A.** Amity University, Amity Business School, November 2016  
*Dissertation:* “Enhancing performance appraisal and feedback in tertiary education institutions: The case of two colleges at Makerere University”  
*Major Adviser:* Dr. John Alfred Bireetwa.
4. **B.Sc.** Agriculture (with Honours), Makerere University, January 1997  
*Dissertation:* “The effects of pregnancy concurrent with lactation on performance of sows and their progeny”  
*Major Adviser:* Prof. David Mutetikka, Makerere University.

## AWARDS, FELLOWSHIPS & SCHOLARSHIPS

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| 1. <b>Certificate of Recognition</b> , Facilitator for the Research Writing in the Sciences 6-week International Course by AuthorAID-INASP         | 2021 |
| 2. Recognition Plaque for <i>Outstanding Contribution</i> to Development of Animal Genetic Resources CIM tool for Africa, African Union Commission | 2019 |
| 3. Evidence-informed Policymaking Seminar Fellowship, European Commission  | 2018 |
| 4. Australia Africa Universities Network and Australia Africa Award Fellowship   | 2018 |
| 5. Visiting Scientist, Iowa State University, College of Agric. and Life Sciences  | 2017 |
| 6. <i>Fellow of the Uganda National Academy of Sciences</i> (UNAS)   | 2017 |
| 7. <i>Best Alumna Award</i> , Australia Africa Awards Short-Course on Increasing the Development Impact of Agricultural Research (IDIAR)           | 2017 |
| 8. International Congress Hidden Hunger Fellowship, University of Hohenheim  | 2015 |
| 9. <i>Africa-wide Young Professionals in Science Award</i><br>(by CTA, FARA, IFS, RUFORUM, ANAFE, NEPAD & AGRA R4D Consortium)                     | 2013 |
| 10. Visiting Scientist, Iowa State University, College of Agric. and Life Sciences   | 2013 |
| 11. Young Affiliate Nominee, Academy of Sciences for the Developing World  | 2012 |
| 12. <i>Best Exhibitor Award</i> (Institutions Category), National Agricultural Show  | 2010 |
| 13. International Atomic Energy Agency (IAEA) Fellowship   | 2004 |
| 14. PhD Tuition and Research Scholarship, NORAD  | 2003 |
| 15. M.Sc. Full Scholarship, DANIDA ENhancement of REsearch CApacity program  | 1997 |
| 16. B.Sc. Full Scholarship, Government of Uganda   | 1992 |

## LEADERSHIP, MEMBERSHIP TO STATUTORY BOARDS AND COMMITTEES

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|---|--------------|
| 1. Chairman, Advisory Committee of the National Livestock Resources Research Institute (NaLIRRI) – National Agricultural Research Organisation (NARO) | 2014-present |
| 2. Chairperson, Governing Council, Fisheries Training Institute, Uganda<br>(& Representative of All Public Universities in Uganda on the Council)     | 2015-present |

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3. Chairperson, Uganda National Bureau of Standards (UNBS) Technical Committee (TC2/SC14) on Apiculture and Apiculture Products 2019-present
4. Member, African Technology and Innovation Incubators Advisory Committee (ATIIAC) for the African Union Commission 2020-present
5. Member, African Organization for Standardization (ARSO), Technical Committee ARSO/TC 02 Apiculture and Pollination Services 2021-present
6. Member, Taxonomy Advisory Group for AnGR of the African Union-InterAfrica Bureau for Animal Resources (AU-IBAR) 2015-present
7. Secretary, Masindi Avocado Farmers' Cooperative Society Limited 2021-present
8. Member, Feed Security Assessment Team, Ministry of Agriculture, Animal Industry and Fisheries (MAAIF, Uganda) 2021- present
9. Member, School Academic Board, School of Agricultural Sciences 2013-present
10. Member, Forum for Agricultural Research in Africa (FARA) 2013-present
11. Member, Advisory Group Network of the African Youth Movement – Committee on Agriculture, Technology and Economy 2015-2019
12. Member, Makerere University Agricultural Research Institute Kabanyolo (MUARIK) Policy Committee, Makerere University 2014-2018
13. Member, Anti-sexual Harassment Committee, Makerere University 2009-2012
14. Member, Faculty Board, Faculty of Agriculture, Makerere University 1997-2013

## MEMBERSHIP TO PROFESSIONAL BODIES

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1. Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA) *Sub-Regional Focal Person for Animal Genetic Resources*
2. Africa Society of Animal Production (AASAP) *Member*
3. African Animal Breeding Network (AABNet) *Founder Member*
4. Association of Uganda Professional Agriculturalists (ASUPA) *Member & Coordinator*
5. Domestic Animal Diversity Network - DAD-Net (hosted by FAO) *Member*
6. Entomological Association of Uganda (EAU) *Founder Member*
7. Forum for Agricultural Research in Africa (FARA) *Member*
8. The Uganda National Apiary Development Organisation (TUNADO) *Founder Member*
9. The Uganda Society *Member*
10. Uganda Goat Network (UGONET) *Founder Member*
11. Uganda National Academy of Sciences (UNAS) *Fellow*
12. Uganda Society of Animal Science (USAS) *Member*
13. World Poultry Science Association - Uganda Branch *Representative for Academia*

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## CONNECTIONS ON PROFESSIONAL SOCIAL MEDIA

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| 1. LinkedIn connections (as at 1 <sup>st</sup> Oct 2021)                 | 11 450   |
| 2. Research Gate reads/downloads (as at 1 <sup>st</sup> Oct 2021)        | 142 630  |
| 3. Google Scholar Citations (as at 1 <sup>st</sup> Oct 2021) and h-index | 860/h-23 |

## TEACHING ABILITY AND EXPERIENCE

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**Associate Professor**, Department of Agricultural Production, Makerere University 1/9/2015-present  
ANS 3201 Apiculture, ANS 4108 Livestock and Poultry Breeding,  
ANS 7207 Advances in Molecular Genetics, ANS 7201 Advanced Animal Breeding  
ANS 1101 Introduction to Animal Agriculture, ANS 1201 Animal Science Skills,

**Senior Lecturer**, Department of Agricultural Production, Makerere University 1/10/2010-2015  
ANS 3201 Apiculture, ANS 4108 Livestock and Poultry Breeding,  
DAG 1205 Livestock Breeding, DAG 1204 Beekeeping and Fish Farming,  
ANS 7207 Advances in Molecular Genetics, ANS 7201 Advanced Animal Breeding  
ANS 1101 Introduction to Animal Agriculture, ANS 1201 Animal Science Skills,

**Assistant Lecturer**, Department of Animal Science, Makerere University 20/09/2004-2010  
ANS 3201 Apiculture, ANS 4108 Livestock and Poultry Breeding,  
ANS 1201 Animal Science Skills, ANS 1101 Introduction to Animal Agriculture,  
DAG 1204 Beekeeping and Fish Farming, ANS 7201 Advanced Animal Breeding  
BLT 215 Breeding and Gene Bank Technology

**Assistant Lecturer (Temporary)**, Department of Animal Science, 08/09/2000-2004  
ANS 321 Apiculture, ANS 4101 Animal Breeding  
ANS 101 Molecular Biology, CC 121 Animal Science Practical Skills

**Assistant Lecturer (Project-Supported)**, Department of Animal Science 01/12/1997-2000  
Cyto-molecular Biology Animal Feeds and Feeding  
Animal Nutrition Apiculture  
Animal Science for Year 1 Recess Term

## MEMORANDUM OF UNDERSTANDING BROKERED & ACTIVELY RUNNING

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1. Makerere University AND Iowa State University (2013-2018; 2018-2023)
2. Makerere University AND International Livestock Research Institute (2019-2024)
3. Makerere University AND Vetline Service Limited (2020-2025)
4. Makerere University AND Heifer Project International (2020-2021)

## RESEARCH PROJECT GRANTS

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**Donald R. KUGONZA**

Project Funder-Project Code - Project Title - Project Acronym -

1. *Austrian Development Cooperation + Austrian Partnership Programme in Higher Education and Research for Development (APPEAR Preparatory Funding)* - Finding the silver piglet: Best types of pigs for smallholder, medium size and commercial pig farms in Uganda – SilverPiglet –
2. *African Union Commission* - AURG-II/2/2018 - Marker-assisted Breeding of Selected Native Chickens in Mozambique and Uganda - Native Chicken project.
3. *GoU & Makerere University Research and Innovation Fund 2020* - MAK RIF2/CHUSS/015 - Reversing under-five child malnutrition: multidisciplinary innovations to improve free-range chicken production and consumption.
4. *International Livestock Research Institute (ILRI)* - CRP001113 - Improving Pig Productivity and Incomes through an Environmentally Sustainable and Gender Inclusive Integrated Intervention Package.
5. *European Union & Ministry of Science, Technology & Innovation* - LEAP-AGRI-326 - Genetic Characterization of Cattle Populations for Optimized Performance in African Ecosystems (OPTIBOV).
6. *GoU & Makerere University Research and Innovation Fund 2019* - MAK RIF1/CAES/009 - Integrating Assisted Reproductive Technologies and Elite Pig Genetics to Transform the Pig Value Chain in Uganda (IntARTs Genetics).
7. *National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS)* - CGS/2/16/14 - Establishing Boar Semen Centres and Database for Commercializing Liquid Boar Semen in Uganda.
8. *Regional Universities Forum for Research on Agriculture (RUFORUM)* - RU-2015-GRG-122 - Incorporating Climate Smart and Fast Growth Traits to Transform the Local Chicken Value Chain in Uganda (SMART-Chickens).
9. *Regional Universities Forum for Research on Agriculture (RUFORUM)* - RU-2015-GRG-123 - Enhancing Production and Incomes in the Honey Value Chain through Addressing the Challenges of Pests and Parasites of Honeybees in Uganda (Bee Health).
10. *Regional Universities Forum for Research on Agriculture (RUFORUM)* - RU-2015-GRG-119 - Enhancing Commercial Production and Marketing of Local Chickens in Northern Uganda through Innovation Platforms (ECOPROMALI).
11. *National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS)* - CGS/2/16/14 - Improvement of Pig Productivity through Diversification of Piglet Nutrition Options and Up Scaling of Pig Artificial Insemination in Uganda.
12. *Regional Universities Forum for Research on Agriculture (RUFORUM)* - RU-CGS-GRG-30-9-11 - Enhancing Local Chicken Productivity through Strategic Breeding and Nutrition Management in Northern Uganda (ELOCHIP).
13. *National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS)* - Participatory Development of the Strategies for Improving Kid Survivability amongst Goats of All Genotypes in the Extensive Production System of South-Western Uganda.
14. *Carnegie Corporation, New York* - Influence of Management System on Growth and Carcass Characteristics of Ugandan Local Chickens.
15. *National Agricultural Research Organisation (NARO)* - Integration of Efficient Chicken Management Strategies and Commercial Production into the Cash Economy of Smallholder Farmers in Lake Victoria Crescent Zone.

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16. Association for Strengthening Agricultural Research in Eastern & Central Africa (ASARECA) - Testing and Validation of Breed Survey Methodology, Socio-economic survey and characterization of Selected Indigenous Cattle of Eastern and Central Africa.
17. Carnegie Corporation, New York - Development of an Improved Protocol for Processing and Handling of Honey in Uganda.
18. National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS) - Enhancing Smallholder Pig Productivity through Efficient Utilisation of Local Feed and Elite Pig Resources in the Lake Victoria Crescent.
19. National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS), Increasing Smallholder Pig Productivity: Integrated Approaches to Breeding, Feeding and Control of African swine fever.
20. National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS) - Socio-economic Impact Assessment of Goat Productivity Interventions and the Use of Innovative & Participatory Breeding Approaches in Uganda.
21. National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS) - Development of Honeybee Pest and Disease Control Methods to Improve the Quality of Honey and Other Hive Products in Uganda.
22. Network of Ugandan Researchers and Research Users (NURRU) - Analysis of the Production & Marketing Channels of Local Chickens & their Products in Central Uganda
23. National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS) - Improving Free Range Poultry Productivity in North West Uganda.
24. African Institute for Capacity Development (AICAD) - Suckling Management and Feeding Strategies of Sows & their Litters in an Integrated Pig and Crop Production System on Smallholder Pig Farms.
25. Promotion of Local Innovation / Centre of Development Research Network (ProLINNOVA/CDRN) - Farmer Innovation in Incubation and Brooding on Smallholder Chicken Productivity: An On-Farm Evaluation in Wakiso district.
26. Swedish Development Agency (Sida/SAREC) - Exploration of Honey, Wax and Propolis Productivity in Central Uganda.
27. Swedish Development Agency (Sida/SAREC) - Weaning Strategies for Improving the Performance of Sows and Their Progenies under Smallholder Conditions
28. NORAD - Genetic Polymorphism, Pedigree Relationships and Selection Criteria of Ankole Cattle Populations of Uganda (as project PhD student).
29. DANIDA-ENRECA - Studies on Phenotypic Response to Population Screening Criteria of Indigenous Meat Goats in the Field in Uganda (as MSc. Student).

## PUBLICATIONS

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### JOURNAL ARTICLES

#### 2021

1. Murera, A., Marco, V. & **Kugonza, D.R.** 2021. Assessment of the adoption of recommended fishing practices of *Limnothrissa miodon* (Tanganyika sardine) in Lake Kivu. *International Journal of Fisheries and Aquaculture* 13(1): 1-14. doi.org/10.5897/IJFA2019.0753

#### 2020



2. **Kugonza, D.R.** 2020. Africa under attack: a continent-wide mapping of pathogens, parasites and predators afflicting the hived honey bee *Apis mellifera* L. (Hymenoptera: Apidae). *African Journal of Rural Development* 5(2): 1-27.
3. **Kugonza, D.R.**, Kayitesi, A., Nakkazi, C., Okot, M.W. and Mulindwa, H. Local chicken production in Uganda: Breeding practices and flock productivity. In: Mensah, S., Tusiime, G and Adipala, E. (Eds.). *RUFORUM Working Document Series*, No. 18.
4. **Kugonza, D.R.**, Kayitesi, A., Nakkazi, C., Okot, M.W. and Mulindwa, H. Performance of Kuroiler and local Ugandan chickens reared under extensive and intensive management systems: Carcass and Meats. *RUFORUM Working Document Series*, No. 18.
5. **Kugonza, D.R.**, Kayitesi traits. In: Mensah, S., Tusiime, G. and Adipala, E. (Eds.). *RUFORUM Working Document Series*, No. 18.
6. Dos Anjos, F., **Kugonza, D.R.**, Okot, M.W., Costa, R. and Okello, D. Marker-assisted breeding of selected native chickens in Mozambique and Uganda. In: Mensah, S., Tusiime, G and Adipala, E. (Eds.). *RUFORUM Working Document Series*, No. 18.
7. Yussif, I., Annor, S.Y., Amidu, B. and **Kugonza, D.R.** Lemon grass (*Cymbopogon citratus*) as a herbal feed additive to improve productive performance of rabbits (*Oryctolagus cuniculus*). In: Mensah, S., Tusiime, G and Adipala, E. (Eds.). *RUFORUM Working Document Series*, No. 18.

## **2019**

8. Hirwa, C.D., **Kugonza, D.R.**, Kayitesi, A., Murekezi, T., Semahoro, F., Uwimana, G. and Habimana, R. 2019. Phenotypes, production systems and reproductive performance of indigenous chickens in contemporary Rwanda. *International Journal of Livestock Production*, 10(10): 213–231. doi.org/10.5897/IJLP2019.0618
9. Elbeltagy, A., Bertolini, F., Fleming, D.S., Van Goor, A., Ashwell, C.M., Schmidt, C.J., **Kugonza, D.R.**, Lamont, S.J. & Rothschild, M.F. 2019. Natural selection footprints among African chicken breeds and village ecotypes. *Frontiers in Genetics*, 10:376. doi: 10.3389/fgene.2019.00376.
10. Aryemo, I.P., Akite, I., Kule, E.K., **Kugonza, D.R.**, Okot, M.W. & Mugonola, B. 2019. Drivers of commercialization: a case of indigenous chicken production in northern Uganda. *African Journal of Science, Technology, Innovation and Development*, 11(6): 739-748. doi:10.1080/20421338.2019.1573957.
11. Siya, A., Bazeyo, W., Tuhebwe, D., Tumwine, G., Ezama, A., Manirakiza, L., **Kugonza, D.R.** and Rwego, I.B. 2019. Lowland grazing and Marburg virus disease (MVD) outbreak in Kween district, Eastern Uganda. *BMC Public Health* 19: 136 doi.org/10.1186/s12889-019-6477-y.

## **2018**

12. Kiyimba, F. & **Kugonza, D.R.** 2018. Effect of dietary protein level on growth, survival and feed utilization in Guinea fowl keets. *African Journal of Rural Development*, 3(2): 799–811.
13. Niyiragira, V., **Kugonza, D.R.** & Hirwa, C.D. 2018. Success drivers of pig artificial insemination based on imported fresh semen. *International Journal of Livestock Production*, 9(6): 102–107.
14. 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. *Small Ruminant Research*, 163: 51–59.

15. Lubandi, C., Lwasa, S., **Kugonza, D.R.**, Babigumira, B.M., Semahoro, F., Nadiope, G. & Okot, M.W. 2018. Analysis of the indigenous chicken value chain in Uganda. *African Journal of Rural Development*, 3(3): 895–912.
16. Siya, A., **Kugonza, D.R.** & Muwanika, V. 2018. Commercialisation of alternative livestock feeds could save fish stocks in Lake Victoria. *African Journal of Tropical Hydrobiology and Fisheries*, 16: 48–50.
17. 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. *African Journal of Science, Technology, Innovation & Development*, 10: 367–380.
18. Bamundaga, G.K., Natumanya, R., **Kugonza, D.R.** & Owiny, D.O. 2018. Reproductive performance of single and double artificial insemination protocol in swine. *Bulletin of Animal Health and Production in Africa*, 66(1): 143–157.
19. 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. *International Journal of Livestock Research*, 8(6): 35–40.
20. 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.

## **2017**

21. 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 and age on bovine semen used for artificial insemination. *International Journal of Livestock Production*, 8(6): 72–78.
22. 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.
23. 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
24. Philipsson, J., Zonabend, E.K., Strandberg, E., Albiñ, A., Atkisson, A., Chagunda, M., Frid, G., **Kugonza, D.R.**, Okeyo, M., Ojango, J. & Peters, K.J. 2017. Sustainable agricultural production and food security: use of livestock resources for food security in the light of climate change. Swedish International Agricultural Network Initiative (Siani) and SLU Global. Uppsala, Sweden. 4 pp.

## **2016**

25. Namayanja, D., Akol, A.M. & **Kugonza, D.R.** 2016. Prevalence of *Varroa* mite infestations among honey bee colonies in Uganda. *RUFORUM Working Document Series*, 14(2): 459–465.
26. 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.



27. 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.
28. Akol, A.M., Namayanja, D., Agaba, A., Kajobe, R., Kasangaki, P. and **Kugonza, D.R.** 2016. The state of knowledge on key pests and parasites afflicting honeybee colonies in Uganda. *RUFORUM Working Document Series*, 14(1): 755–758.
29. Kayitesi, A., Nakkazi, C., **Kugonza, D.R.**, Okot, M.W. & Mulindwa, H. 2016. Local chicken production in northern Uganda: Breeding practices and flock productivity. In: *Research Application Summary* pp. 291–292.

#### **2015**

30. **Kugonza, D.R.**, Lubandi, C., Kirembe, G., Taabu, H.L. & Lusembo, P. 2015. Effect of genotype and post-weaning diet in enhancing pig production within Lake Victoria crescent in Uganda. *Agricultural Innovations for Sustainable Development*, 4(3): 296–304.
31. Nakkazi, C., **Kugonza, D.R.**, Kayitesi, A., Mulindwa, H. & Okot M.W. 2015. The effect of diet and feeding system on the on-farm performance of local chickens during the early growth phase. *Livestock Research for Rural Development*, 27(10): 1–11.
32. 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.

#### **2014**

33. **Kugonza, D.R.**, Stalder, K. & Rothschild, M.F. 2014. Effect of buck and doe size on the growth performance and survival of their progeny. *Livestock Research for Rural Development*, 26(3): 1–8.
34. 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.
35. 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 and Technology*, 2(5): 116–121.

#### **2013**

36. **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.
37. 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.
38. Mwesigwa, R., Mutetikka, D. & **Kugonza, D.R.** 2013. Performance of growing pigs fed diets based on by-products of maize and wheat processing. *Tropical Animal Health and Production*, 45(2): 441–446.
39. 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.
40. Mwesigwa, R., Mutetikka, D., Kabugo, S., & **Kugonza, D.R.** 2013. Varying levels of wheat processing by-products in diets for growing pigs: effect on growth and carcass Traits. *Tropical Animal Health and Production*, 45(8): 1745–1749.

41. Manzi, M., Mutabazi, J., Hirwa, C.D. & **Kugonza, D.R.** 2013. Socio-economic assessment of indigenous goat production systems in rural areas of Bugesera district in Rwanda. *Livestock Research for Rural Development*, 25(11): 1–8.
42. Bett, R.C., Okeyo, A.M., Malmfors, B., Johansson, K., Agaba, M., **Kugonza, D.R.**, Bhuiyan, A.F.K., Filho, E.V., Mariante, A., Mujibi, D. & Philipsson, J. 2013. Cattle breeds: extinction or quasi-extant? *Resources*, 2: 335–357.

## **2012**

43. **Kugonza, D.R.**, Kiwuwa, 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.
44. **Kugonza, D.R.**, Nabasirye, M., Hanotte, O., Mpairwe, D. & Okeyo, A.M. 2012. Pastoralists' indigenous selection criteria and other breeding practices of the long-horned Ankole cattle in Uganda. *Tropical Animal Health and Production*, 44(3): 557–565.
45. **Kugonza, D.R.**, Kirembe, G., Tomusange-Nvule, E., Lutalo, D. & Drani, E. 2012. Experimental validation of farmer innovations in incubation and brooding management of chickens. *Livestock Research for Rural Development*, 24(5): 1-7.
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- 171.** When it's got to be pigs. (New Vision, September 5, 2017)
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## **SUPERVISION OF GRADUATE STUDENTS' RESEARCH: PhD**

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1. **Natumanya, Robert.** 2014/HD17/18705U. Evaluation of Fresh and Cryopreserved Boar Semen of Community Based Breeding Schemes. PhD., COVAB, Makerere University – *Conducting research*
2. **Burikukiye, Jean Marie.** 2017/HD17/19134X. Performance and Adaptability of Pure Boer Goats and Their Crosses in Karusi Province, Burundi. PhD., COVAB, Makerere University – *Conducting research*
3. **Beyihayo, Geoffrey Akiiki.** 19/U/3189/PhD/PS. Marker-assisted selection for growth and egg production among indigenous multi-purpose chicken ecotypes in Uganda. PhD., Faculty of Agriculture and Environment, Gulu University – *Conducting research*
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11. **Ayo, Ogwal George.** (2006/HD19/7064U) Socio-Economic analysis of Beekeeping and the Effects of Different Technologies on Honey Yield in Lira and Adjumani, Uganda (MSc. Environment and Natural Resources, Makerere University – *Graduated on 16<sup>th</sup> January 2018*).
12. **Bamundaga, Kyobe Godfrey.** (2006/HD17/6747U) Swine breeding practices and reproductive performance under various production systems. (MSc. Livestock Development, Planning & Management, Makerere University – *Graduated on 17<sup>th</sup> January 2018*) (*this work was published in a refereed journal*).
13. **Katongole, Ignatius.** (2014/HD17/2208U) Development of milk replacer diets for piglets based on locally available feed resources. (MSc. Livestock Development, Planning and Management, Makerere University – *Deceased before completion*).
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15. **Namayanja, Diana.** (2014/HD13/833U) Effects of Varroa mite infestations on honey bee colony productivity in Uganda, 57 pp. (MSc. Zoology, Makerere University – *Graduated on 16<sup>th</sup> January 2019*).
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20. **Nakajubi, Esther.** (2017/HD02/8084U) Reducing the incidences of African Swine Fever and improving productivity through use of artificial insemination in smallholder pig farming enterprises. (MSc. Animal Science, Makerere University – *Conducting Research*).
21. **Kyebarize, Stella.** (A451/4223/2020) Assessing The Acceptance of Edible Insects as an Alternative Protein Source in Northern Uganda. (MSc. Food Security & Sustainable Agriculture, Jaramogi Oginga Odinga University of Science & Technology – *Conducting Research*).
22. **Behabura, Generous, B.**
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1. **Aliche, David.** 1999. Honey production in Katakwi district with reference to Toroma sub-county. 42 pp. (*graduated with BSc. Agriculture–2000*).
2. **Musooli, David.** 2001. Honey production with special emphasis on marketing at two levels of outlets in Luweero and Kampala districts. 36 pp. (*graduated with BSc. Agriculture–2001*).
3. **Mugumya, Roland.** 2001. A survey of factors affecting bee keeping for honey production in Bushenyi district with specific reference to Bushenyi town council. 32 pp. (*graduated with BSc. Agric.–2001*).
4. **Natumanya, Robert.** 2001. The potential of slaughter house Ankole ovaries as a source of oocytes for in vitro embryo production. 40 pp. (*graduated with B. Biomedical Lab. Technology–2002*). (*this work was published in a refereed journal*).
5. **Odong, Mike.** 2002. Assessment of farmer knowledge on bee keeping techniques in Kitgum and Gulu districts. 52 pp. (*graduated with BSc. Agriculture–2002*).
6. **Nabakabya, Dorothy.** 2002. Quality assessment of locally processed honey marketed in Kampala city. 58 pp. (*graduated with B. Biomedical Laboratory Technology–2002*). (*this work was published in a refereed journal*).
7. **Iisa, Augustine.** 2003. Phenotypic characterisation and assessment of current state of indigenous chickens in rural poultry flocks of Kumi district 80 pp. (*graduated with BSc. Agriculture–2003*). (*this work was published in a refereed journal*).

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- 9. Bigirwa, M.** 2004. Studies on selection procedures among Ankole cattle herds using indigenous knowledge. 65 pp. (*graduated with BVM*).
- 10. Kamatara, Kanifa.** 2006. Effects of hive type and location on colonisation rate and pest prevalence. 36 pp. (*graduated with BSc. Agriculture–2006*). (*this work was published in a refereed journal*).
- 11. Walangaire, Joseph.** 2007. Characterisation of pig production farms in Nsangi sub-county. 41 pp. (*graduated with BSc. Agriculture–2008*).
- 12. Akeny, Emmanuel.** 2009. Factors affecting the adoption of beekeeping technologies in Lira District. 52 pp. (*graduated with BSc. Agriculture–2010*).
- 13. Sasira, Phionah.** 2009. Effects of management practices on honey production: A case study of Kinoni sub-county Kiruhura district. 67 pp. (*graduated with B. Arts Environment–2010*).
- 14. Kugonza, Fred.** 2009. Characterization of pig production systems, genetic and feed resources in Wakiso and Kalangala districts, Uganda. 112 pp. (*graduated with BSc. Agriculture–2010*).
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- 16. Natukunda, Kevin.** 2011. Flock dynamics and profitability of local chickens in Namasagali sub-County, Kamuli district. 49 pp. (*graduated with BSc. Agriculture–2012*). (*this work was published in a refereed journal*).
- 17. Mujuni, Aggrey.** 2011. Factors affecting the adoption of beekeeping and associated technologies in Bushenyi district. 45 pp. (*graduated with BSc. Agriculture–2012*). (*this work was published in a refereed journal*).
- 18. Walugembe, Muhammed.** 2011. Production and breeding management practices of small holder indigenous cattle farmers in Bugabula county, Kamuli district. 51 pp. (*graduated with BSc. Agric–2012*).
- 19. Musoni, Aloys.** 2011. Determinants of adoption of ISAR's innovations by neighbouring households: A case study of cattle husbandry in Rusatira sector. 70 pp. (*graduated with Bachelor of Rural Development and Agribusiness, ISAE–2012*). (*this work was published in a refereed journal*).
- 20. Kagoya, Tabisa.** 2012. Profitability of dairy cattle in Kamuli town council and Namasagali sub-county, Kamuli district. 39 pp. (*graduated with Bachelor of Agribusiness Management–2012*). (*this work was published in a refereed journal*).
- 21. Kiyingi, Yasin.** 2013. Willingness to pay for cattle insurance by smallholder dairy farmers in the urban and peri-urban areas of Kampala district. 60 pp. (*graduated with BSc. Agric–2014*).

22. **Tahinduka, Abraham.** 2014. Factors affecting the profitability of beekeeping in four sub-counties of Hoima district. 37 pp. (*graduated, Bachelor of Agribusiness Management in 2016*).
23. **Sonko, Bashir.** 2015. Effect of Livestock on Soil and Water Quality in Namasagali Sub County, Kamuli District. 37 pp. (*graduated with BSc. Agriculture Land Use & Management in 2016*).
24. **Bayo, Joel.** 2015. Assessing the impact of feeds and feeding practices on pig productivity in Wakiso and Kabarole districts. 51 pp. (*graduated with BSc. Agriculture in 2016*).
25. **Nabikyu, Jane Rosette.** 2015. Characterisation and profitability of selected piggery businesses in Wakiso district. 47 pp. (*graduated with BSc. Agribusiness Management in 2016*). (*this work was published in a refereed journal*).
26. **Kiyimba, Frank.** 2016. Effect of Dietary Protein Level on Growth, Survival and Feed Utilization Performance of Guinea Fowl Keets. 60 pp. (*graduated with BSc. Agriculture in 2017*). (*this work is accepted for publication in a refereed journal*).
27. **Muhumuza, Peter.** 2016. Analysis of Management and Productivity of Indigenous Chickens in Kanoni Sub-County, Kiruhura District. 60 pp. (*graduated with BSc. Agribusiness Management in 2017*).
28. **Twinamatsiko, Primah.** 2016. Socio-Economic Analysis of Local Chicken Production Systems in Kamuli District. 57 pp. (*graduated with BSc. Agriculture in 2017*).
29. **Nuwatuha, Catherine.** 2016. Characterisation of Duck Production Systems in Kamuli and Kiryandongo Districts. 59 pp. (*graduated with BSc. Agriculture in 2017*). (*this work is due to be published in a refereed journal*).
30. **Mugambe, Julius.** 2016. Assessment of Management Practices and Productivity of Indigenous Chickens in Kiryandongo District. 50 pp. (*graduated with BSc. Agriculture in 2017*). (*this work is due to be published in a refereed journal*).
31. **Tukamuhebwa, Frank.** 2016. Relating the Hygienic Behaviour of Ugandan Honey Bees with Age of the Comb and Size of the Colony. 39 pp. (*graduated with BSc. Agricultural Land Use and Management in 2017*). (*this work was presented at an International conference in Rwanda and is due to be published in a refereed journal*).
32. **Namuwonge, Bridget Immaculate.** 2017. Impact of Agri-financing on the profitability of Small-scale farming in Kamuli District. 52 pp. (*graduated with BSc. Agribusiness Management in 2018*).
33. **Kasoro, Isaac.** 2021. The Influence of Breed and Non-genetic Factors on the Semen Quality of Exotic Bos Taurus Bulls in Uganda. 43 pp. (*due to graduate with BSc. Agriculture in 2021*).
34. **Male, Brian.** 2021. Factors Influencing Number of Services per Conception and Litter Size of Pigs Artificially Inseminated in Uganda. 46 pp. (*due to graduate with BSc. Agriculture in 2021*).



35. **Namatovu, Grace.** 2021. Effect of Breed and Storage Temperature on the Quality of Boar Semen. 27 pp. (*due to graduate with BSc. Agriculture in 2021*).

## ATTENDANCE OF CONFERENCES AND GIVING LECTURES

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1. 2nd EAC Science, Technology and Innovation Conference (STI), 27th-29th October 2021. Theme: The Role of Science, Technology and Innovation in EAC Regional Integration and Socio-Economic Development in the phase of COVID-19 Pandemic. By East African Science Technology Commission (EASTECO), Inter-University Council for East Africa (IUCEA), GIZ, CENIT@EA and other Partners. <https://2ndsticonference.easteco.org/event/>. Role: **Invited Participant**.
2. The First Regional Eastern Africa e-Conference on Aquaculture, 27<sup>th</sup>-29<sup>th</sup> August, 2021. Theme: Building a Sustainable Commercial Aquaculture Industry. By World Aquaculture Society, AU-IBAR and other Partners. <https://aquaeaconf.org/>. Role: **Invited Participant**.
3. International Symposium on Sustainable Animal Production and Health – Current status and way forward. Virtual Event. 28<sup>th</sup> June–2<sup>nd</sup> July, 2021. By International Atomic Energy Agency. <https://www.iaea.org/events/aphs2021>. Role: **Invited participant**.
4. Avocado Africa – 2021. Virtual Event. June 23–25, 2021. Theme: Its time for Africa Avocado. By Avocado Society of Kenya, [www.avocadoafrica.com](http://www.avocadoafrica.com) Role: **Invited participant**.
5. NEF Global Gathering 2020 Virtual Edition. Next Einstein Forum, an African Institute for Mathematical Sciences (AIMS) Initiative, Nairobi, Kenya, December 8–10, 2020. Role: **Invited participant**. <https://www.airmeet.com/e/a241fb10-29b3-11eb-8d06-f79d71b1930d>
6. The 3rd global conference of the Sustainable Food Systems Programme. UN-OPN Sustainable Food Systems Programme, Theme: Achieving the SDGs through food systems transformation, on the road to the Food Systems Summit 2021. Nov 25–Dec 3, 2020. **Role: Participant**
7. 8th Forum for Agricultural Research in Africa (FARA) General Assembly. A virtual event, 24–25 Nov. 2020. Theme: “institutions, innovations and impact”. Attended a symposium and plenary dialogue on the theme “Unlocking domestic investments to make science and innovation work for agricultural development in Africa”. **Role: Participant**
8. The Virtual 3<sup>rd</sup> World Conference on Sheep. Alliance of International Science Organizations (ANSO), Beijing, China, October 16–18, 2020. **Role: Participant**. <https://www.bagevent.com/event/6871118>
9. 2020 Borlaug CAST Communication Award Announcement Webinar, May 12, 2020. **Role: Participant**.
10. 15<sup>th</sup> RUFORUM Annual General Meeting 2019. University of Cape Coast, Ghana, December 2-6, 2019. **Role: Presented Key note address**; Also presented a session paper and was co-author.

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- 11.** 1<sup>st</sup> Great Lakes and Catchment Management Conference (1<sup>st</sup> GLACAM). Theme: “*Protecting water and land resources in Africa for climate change adaptation and improved livelihoods*”. Water Resources Institute, Entebbe, Uganda, June 5–7, 2019. **Role: Participant and Co-Facilitator.**
- 12.** Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA) Council of Patron Ministers Summit. Theme: “*Repositioning ASARECA for Accelerated African Agricultural Transformation*”. Speke Resort and Conference Centre, Munyonyo, Kampala, Uganda, May 2–4, 2019. **Role: Moderator for Day 1;** Attended all sessions.
- 13.** 11<sup>th</sup> African Academy of Sciences General Assembly. Theme: “*Our history, impact and the future*”. CSIR International Convention Centre, Pretoria, South Africa, December 10–14, 2018. **Role: Attended sessions.**
- 14.** Evidence-informed Policymaking Seminar. Department of Science and Technology South Africa, Pretoria, South Africa, December 9–11, 2018. **Role: Attended five Master Classes** and all plenary sessions.
- 15.** 2<sup>nd</sup> Joint National Agricultural Research Organisation and Makerere University (NARO-MAK) Scientific Conference and 1<sup>st</sup> Feed the Future Innovation Lab for Nutrition Annual Scientific Symposium. Theme: “*Research for Innovative agri-food systems and nutrition*”. Speke Resort Hotel, Munyonyo, Kampala, Uganda, November 12–15, 2018. **Role: Presented 2 oral papers and co-authored another 2 oral papers** with my MSc students and Attended all sessions.
- 16.** 2018 World Food Prize-Borlaug Dialogue International Symposium; and The World Food Prize Laureate Award Ceremony. Theme: “*Rise to the Challenge*”. Marriott Downtown Des Moines, Des Moines, Iowa, USA, October 17–19, 2018. **Role: Attended sessions.**
- 17.** 11<sup>th</sup> World Congress on Genetics Applied to Livestock Production (WCGALP). Aotea Centre, Auckland, New Zealand, February 11–16, 2018. **Role: Attended sessions, gave 2 papers.**
- 18.** ICAR: The Global Standard for Livestock Data and Interbull Annual Conference. The Grand Millennium Hotel, Auckland, New Zealand, February 7–11, 2018. **Role: Attended sessions.**
- 19.** 2017 World Food Prize-Borlaug Dialogue International Symposium. Theme: “*The Road out of Poverty; Focus on: Leadership, Infrastructure and the next generation*”. Marriott Downtown Des Moines, Des Moines, Iowa, October 18–20, 2017. **Role: Attended sessions.**
- 20.** “The Uganda School Garden Service-Learning Program: 12 Years of Bi-national Service and Learning”, Horticulture Department Seminar, Horticulture Hall, Iowa State University, Ames, Iowa, USA. Oct. 23<sup>rd</sup> 2017. **Role: Seminar Presenter**
- 21.** “Water Projects in Uganda”, 9<sup>th</sup> Annual Heartland Global Health Consortium Conference. Theme: “*Health Water, Healthy World: Water Sustainability for Global Health*”. Olmsted Center, Drake University, Des Moines, Iowa, October 13, 2017. **Role: Participant.**

22. UR International Scientific Conference Week. Theme: “*Rebranding Research for Sustainable Development*”. Kigali Conference and Exhibition Village, Kigali, Rwanda, June 14–16, 2017. **Role: Presenter.**
23. National Agricultural Research Organisation–Makerere University Joint Agricultural Dissemination Conference. Theme: “*Agricultural Research and Innovations for Socio-economic Transformation*”, Speke Resort Hotel Munyonyo, Kampala, Uganda, November, 21–24, 2016. **Role: Presented one paper and co-authored another two oral papers** with my MSc students and Attended all sessions.
24. 5<sup>th</sup> African Higher Education Week & RUFORUM Biennial Conference. Theme: “Partnerships to unlock the Potential of Agricultural Development in Africa”, Century City Conference Centre, Cape Town, South Africa, October 17–21, 2016. **Role: Mentored my 6 M.Sc. students**, Akite, I.P.; Aryemo, I.; Agaba, A.; Lubandi, C.; Namayanja, D.; Semahoro, F.; presented their posters and the latter four also made oral presentations.
25. APIEXPO Africa 2016, The African Honey Exhibitions, B2B Meetings, Conferences, Training Workshops and Technical Tours. Theme: “*Driving Socio-Economic Transformation in Africa: The Role of Commercial Beekeeping*”, Kigali Conference & Exhibition Village, Kigali, Rwanda, September 21–26<sup>th</sup>, 2016. **Role: Exhibited my Book on Beekeeping and was a member of the Organising Committee.**
26. International Seminar, Swedish University of Agricultural Sciences, Uppsala, Sweden. Theme: “*Livestock Resources for Food Security in the Light of Climate Change*”. Ulls Hus, SLU, Uppsala, Sweden, March 11, 2016. **Role: Presented a paper.**
27. 2<sup>nd</sup> International Congress Hidden Hunger, University of Hohenheim/Movenpick Hotel, Stuttgart, Germany, March 3–6, 2015. **Role: Presented a paper.**
28. Makerere University International Research and Dissemination Conference. Theme: “*Empowering Communities through Research, Innovations and Knowledge Translation*”. Hotel Africana, Kampala, Uganda, April 20–21, 2015. **Role: Presented a paper.**
29. 6<sup>th</sup> All Africa Conference on Animal Agriculture. Theme: “*Africa’s Animal Agriculture: Macro-trends and future opportunities*”. Kenyatta International Conference Centre, Nairobi, Kenya. October 26–30, 2014. **Role: Presented a poster.**
30. 2013 World Food Prize - Borlaug Dialogue International Symposium & Global Youth Institute. Theme: “*Biotechnology, Sustainability and Climate Volatility*”. Marriott Downtown Des Moines, Des Moines, Iowa, October 16–19, 2013. **Role: Attended sessions.**
31. 1<sup>st</sup> RAB Biennial Conference on Agricultural Research and Extension. Theme: “*Confronting the challenges of food insecurity in the era of climate change and variability*”. Kigali Serena Hotel, Kigali, Rwanda, August 21–23, 2013. **Role: Presented a paper, co-author of three other papers and 10 posters.**

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32. 6<sup>th</sup> Africa Agriculture Science Week and FARA General Assembly, 3<sup>rd</sup> Young Professionals in Science Competition organized by CTA/FARA/IFS/RUFORUM/AGRA/ ANAFE/NPCA, Theme: *“Feeding 1 billion in Africa in a changing world”*, International Conference Centre, Accra, Ghana, July 15–20, 2013, **Role: Presented a paper that won the 5<sup>th</sup> Prize (Ca\$h and Books)**.
33. The Sveriges lantbruksuniversitet/Swedish University of Agricultural Sciences (SLU), *Africa Food Security Research Symposium, Outcomes of a Swedish Government Initiative*, Metropole Hotel, Kampala, Uganda, December 4–6, 2012. **Role: Attended sessions on livestock production and health.**
34. 3<sup>rd</sup> RUFORUM (Regional Universities Forum) Biennial Regional Conference, Theme: *“Partnerships and Networking for Strengthening Agricultural Innovation and Higher Education in Africa”*. Imperial Resort Beach Hotel, Entebbe, Uganda. September 24–28, 2012. **Role: Attended some plenary sessions.**
35. ASARECA Scientific Conference, Theme: *“Enhancing the competitiveness of the livestock and fisheries sectors for improved livelihoods in East and Central Africa”*. Source du Nil Hotel, Bujumbura, Burundi, October 31–November 4, 2011. **Role: Presented three papers.**
36. 2<sup>nd</sup> RUFORUM (Regional Universities Forum) Biennial Conference, Theme: *“Building Capacity for Food Security”*. Imperial Resort Beach Hotel, Entebbe, Uganda. September 13–17, 2010. **Role: My M.Sc. student (Mwesigwa, R.) presented a paper that won best oral presentation Award.**
37. 2<sup>nd</sup> Annual Research and Innovations Dissemination Conference, “Sustainable socio-economic development in Uganda: The contribution of Makerere through research and innovations”. Hotel Africana, Kampala, Uganda. November 5-6, 2009. **Role: Presented Paper.**
38. 10<sup>th</sup> World Conference on Animal Production. Cape Town International Convention Centre, Cape Town, South Africa. November 23-28, 2008. **Role: Presented a poster, selected best in the session.**
39. 9<sup>th</sup> Annual Graduate Workshop of the Faculty of Agriculture, Makerere University. Theme: *“Transforming knowledge into practical technologies: The role of graduate agricultural research”*. MUARIK, Uganda. September 1–2, 2006. **Role: Presented two papers.**
40. 6<sup>th</sup> Global Conference on Conservation of Domestic Animal Genetic Resources, Rare Breeds International (RBI). Megalies’ Park Conference Centre, North West Province, South Africa, October, 9-13, 2005. **Role: Presented a paper.**
41. 8<sup>th</sup> Annual Graduate Workshop of the Faculty of Agriculture, Makerere University. Theme: *“Generating demand driven technologies: The role of graduate agricultural research”*. MUARIK-CAEC, Uganda. October 6–7, 2005. **Role: Presented a paper.**
42. 4<sup>th</sup> All Africa Conference on Animal Agriculture, Arusha International Conference Centre. September 20-24, 2005. **Role: Presented a paper and poster.**

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43. 13<sup>th</sup> FAO Biotechnology Forum entitled "The role of biotechnology for the characterisation and conservation of crop, forest, animal and fishery genetic resources in developing countries. June 6 - July 5, 2005. **Role: Participated in discussion forum.**
44. 29<sup>th</sup> International Conference on Animal Genetics, International Society of Animal Genetics. Meiji University, Tokyo, Japan. September 11-16, 2004. **Role: Presented a poster.**
45. APSK/TSAP/Makerere University Regional Animal Production conference on Livestock revolution: Challenges and opportunities for livestock industry in East Africa. KARI, Nairobi, Kenya. March 15-18, 2004. **Role: Presented two papers.**
46. Makerere University/NUFU Conference, Faculty of Forestry, Makerere University. March, 2001. **Role: Presented two papers.**
47. 6<sup>th</sup> World Youth Forum. Möss Boarding School, Möss, Norway. July 2-5, 1996. **Role: Chaired a session. Campaigned for and won election to be president of Africa sub-region and vice-president of the world body (1996-1999).**
48. 34<sup>th</sup> World Scout Conference. Oslo Conference Centre, July 6-9, 1996. **Role: Attended all sessions as a voting Delegate for Republic of Uganda.**

## CURRICULUM DEVELOPMENT

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1. Competence-based curriculum for the Diploma and Certificate in Pig Production for Baraka Agricultural College, Molo, Kenya. (2018)
2. Diploma in Agriculture for Kumi University (2017)
3. BSc Animal Science degree curriculum, College of Agricultural and Environmental Sciences, Makerere University, Kampala. (2017-2018)
4. BSc Agriculture Curriculum review, Esella Country Club, Kampala, Uganda. (2015)
5. Certificate in Beekeeping, Nyabyeya Forestry College, Masindi (2000).
6. Diploma in Beekeeping, Nyabyeya Forestry College, Masindi (2000).
7. Bachelor's degree in Agricultural and Rural Innovation by distance education, Makerere University (2010).
8. Bachelor's degree in Education (External/distance education) for Agriculture teachers, Makerere University (2005).
9. Biological Courses Harmonisation, Makerere University, August 2010.

## EDITORIAL SERVICES

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## Donald R. KUGONZA

1. Editor, *Scientific African (SciAf)*, Elsevier 2019-present
2. Sub-Editor, *South African Journal of Animal Science (SAJAS)*, SASAS 2016-present
3. Reviewer, *Tropical Animal Health and Production (TAHP)*, Springer 2012-present
4. Reviewer, *Journal of Development and Agricultural Economics (JDAE)* 2017-present
5. Reviewer, *Livestock Research for Rural Development (LRRD)*, CIPAV 2015-present
6. Reviewer, *African Journal of Agricultural Research (AJAR)*, AJ 2008-present
7. Reviewer, *Journal of Cell and Animal Biology (JCAB)*, AJ 2009-present
8. Reviewer, *Iranian Journal of Applied Animal Science (IJAS)* 2011-present
9. Editorial Committee Member, *1<sup>st</sup> RAB (Rwanda Agriculture Board) Biennial Conference on Agricultural Research & Extension, Kigali, Rwanda* 2013

## VETTING OF RESEARCH PUBLICATIONS AND PROPOSALS

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### PhD Thesis External Examiner:

1. University of the Free State, South Africa: Detection of selection signatures and genes associated with fitness in South African Afrikaner and Brahman cattle 2021
2. Gulu University, Uganda: Factors affecting the performance of African honey bee colonies in Uganda 2019
3. Swedish University of Agricultural Sciences, Sweden: Breeding Programme and Infrastructure – the Case of Red Maasai Sheep in Kenya 2016
4. PhD Thesis Evaluation Committee Member for Sveriges lantbruksuniversitet (Swedish University of Agricultural Sciences, Sweden) 2015

### Vetting Publications for Promotion:

1. Associate Professor at University of Cape Coast Ghana: Vetting 12 Publications for Promotion of Dr. Julius Hagan. 2020
2. Associate Professor at University of Zimbabwe: Vetting 12 Publications for Promotion of Dr. Venancio Edward Imbayarwo Chikosi 2017
3. Senior Lecturers at Makerere University: Vetting of publications for **Three** Academic Staff Members for promotion 2017-present

### External Examiner for BSc. Agricultural degree Examinations:



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1. Kyambogo University, Department of Agriculture, Kampala, Uganda:  
Duties included providing advice on: Programme/ Course/Subject structure;  
Standard of examination (quality, relevance, appropriateness, syllabus coverage;  
Standard of marking course work & theory examinations by internal examiners;  
Performance of the students in course work and theory examinations 2017-2020
2. Gulu University, Department of Agriculture, Gulu, Uganda 2010

**Review of Research Multi-partner Grant Proposals:**

1. Michigan State University, Alliance for African Partnership: Partnership for Innovative Research in Africa, PIRA: Vetted Research Grant Proposal 2021
2. Austrian Development Cooperation (ADC) APPEAR: Vetted Research Grant Proposals 2016
3. Makerere University: Vetted Four Post-Doctoral Research Proposals under the Directorate of Research & Graduate Training (DRGT) 2020
4. Makerere University: Vetted Five Research Proposals under the Makerere University Research and Innovation Fund (MAK RIF 1) Projects. 2019
5. National Agricultural Research Organisation (NARO)-Competitive Grant Scheme, Research Proposal Vetter 2010-present

**MSc Thesis External Examiner:**

1. Kyambogo University: Performance of the Small East African Zebu × Tyrolean Grey Cattle crosses in Uganda 2021
2. Gulu University: Economic performance of broiler chicken production 2018
3. Lilongwe University of Agriculture & Natural Resources (LUANAR):  
Evaluation of performance of Black Australorp (Mikolongwe) breed & their crosses under smallholder poultry production system: A case study of Barilla Rural Poultry Project in Chiradzulu District 2015
4. Lilongwe University of Agriculture & Natural Resources (LUANAR):  
Evaluation of performance of crossbred dairy cattle in Chiradzulu District, Southern Malawi 2015
5. Lilongwe University of Agriculture & Natural Resources (LUANAR):  
Productivity and Fertility of Imported Dairy Cows under Smallholder Farming System in Central Region Milk Shed Area 2015
6. Sokoine University of Agriculture, Tanzania: Molecular characterisation of the major histocompatibility complex DRB3.2 locus in indigenous Zebu cattle in selected areas of Tanzania 2014

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7. University of Nairobi, Kenya: Analysis of inbreeding levels and characterisation curve of Kenya Alpine dairy goats 2011
8. University of Nairobi, Kenya: Factors affecting pre and post-weaning growth of crossbred cattle at Songa Research Station in Rwanda 2011
9. University of Nairobi, Kenya: Genetic evaluation of Kenyan Boran herds and embryo export in Kenya. 2010

**MSc Thesis Internal Examiner for Makerere University:**

1. Drivers to undergraduate students' acquisition of agricultural practical skills through field attachment: The case of Gulu University's student-farmer attachment program 2018
2. Management systems & location effects on growth and carcass traits of Kuroiler and local chickens 2015
3. On-farm evaluation of the effect of diet & feeding system on the performance of local chickens 2015
4. Honeybee forage plants, bee visitation counts & properties of honey from different agro-ecological zones of Uganda 2015
5. Effect of insecticide application on species richness, relative abundance and foraging activities of bees in cotton agro-systems in Padyere County, Nebbi District, Uganda 2014
6. Selection criteria of potentially superior bulls and cows in Ankole cattle using indigenous knowledge 2014
7. Utilisation of spent brewer's yeast as a protein feed supplement for growing pigs 2013
8. Environmental effects of livestock on water quality under crop-livestock farming system in the Lake Victoria basin 2013
9. Production, breeding practices, physical traits of economic importance in Ugandan goats 2010

**PhD Synopsis Evaluation:**

1. Evaluating the role of honey bees in the pollination of coffee in four agro-ecological zones of Uganda 2017
2. Identifying signatures of selection in cattle of Uganda 2017
3. Modelling honey bee colonization and population trends 2016

**SERVICE TO MAKERERE UNIVERSITY AND THE UGANDA COMMUNITY**

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1. Ambassador, Makerere University Retirement Benefits Scheme (MURBS):  
Participate in activities of the retirement benefits scheme; Keep members in the College of Agricultural & Environmental Sciences, its Schools & Departments informed of on-going activities and events of the scheme. 2018-present
  2. Coordinator, Makerere University/Iowa State University Service-Learning Program:  
Advertising for placements, Screening of prospective interns through written and oral interviews; conducting one-week residential orientation and six orientation meetings; supervising the students in the residential 10-week field attachment/internship in Kamuli district; organising seminars for faculty and students in CAES. 2009-present
  3. Radio Talk Show Presenter, Piggery and other livestock enterprises, Central Broadcasting Services, Mega FM 2010-present
  4. Trainer and Advisor for farmers of goats, cattle, pigs, chickens, and honey bees:  
**Farmers are either hosted individually at my office or are visited at their farms. In several cases, farmers organize themselves into groups and are trained at their preferred locations.** Such group trainings have been conducted in: Adjumani, Apac, Arua, Bugiri, Bukomansimbi, Buliisa, Buikwe, Bunyangabu, Bushenyi, Buyende, Gulu, Hoima, Ibanda, Isingiro, Jinja, Kaabong, Kabale, Kabarole, Kalangala, Kampala, Kamuli, Kamwenge, Kasese, Katakwi, Kayunga, Kapchorwa, Kibaale, Kiruhura, Kiryandongo, Kyenjojo, Kyotera, Lira, Lwengo, Masaka, Masindi, Mbale, Mbarara, Moyo, Mpigi, Mubende, Mukono, Nakaseke, Nakasongola, Nebbi, Ntoroko, Omoro, Oyam, Rakai, Rukungiri, Sembabule, Sheema, Soroti, Wakiso & Yumbe 2000-present
  5. Coordinator of Outreach Activities, Animal Science section:  
Coordinate exhibitions, open days and agricultural shows, and similar events. Roles include: budgeting, assembling exhibits, coordinating exhibitors, attending And overseeing exhibitions. 2007-2015
  6. Member, Biological Courses Harmonisation Committee, Makerere University 2010
  7. Member, Anti-sexual Harassment Committee, Faculty of Agriculture:  
Attending committee meetings; Educating students & staff about role of committee; Working with the committee to solve sexual harassment cases in the faculty. 2009-2011
  8. Member, School Academic Board, School of Agricultural Sciences 2011-present
  9. Member, Faculty Board, Faculty of Agriculture 1998-2010
  10. Exhibitor, Annual Exhibition of the School of Agricultural Sciences 2011
  11. Participant, Field day at Nakanyonyi in Kamuli District 2010

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- 12.** Exhibitor, National Agricultural Show, Jinja 2009-2011
- 13.** Convener of an International seminar at Makerere University on “Poor productivity and livestock losses: who should we blame?, by: Giulia Esposito, DVM, PhD, Lecturer, Stellenbosch University, South Africa Jan 30<sup>th</sup> 2018
- 14.** Convener of an International seminar at Makerere University on “Sustainable intensification of dairy cows: Is it possible? by: Emiliano Raffrenato, PhD, Senior Lecturer, Stellenbosch University, South Africa (attended by 52 persons) Jan 30<sup>th</sup> 2018
- 15.** Convener of an International seminar at Makerere University on “The nexus Between addressing climate change, protecting biodiversity and ensuring sustainable land management, by: Dr. Richard Byron-Cox, PhD, Action Programme Alignment & Capacity Building Officer, UNCCD (United Nations Convention to Combat Desertification), (attended by 35 persons) Oct. 26<sup>th</sup> 2016
- 16.** Convener of International seminars at Makerere University on “Advances in Animal breeding theory” by Prof. Max Rothschild & Prof. Jim Reecey, Iowa State University, Ames, USA, (attended by 20 persons) August, 2007

## CONSULTING

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- 1. Expert, Modern beekeeping technologies, Agency for Integrated Rural 2001-2005 Development Initiatives (AFIRD),**
- 2. Consultant for Commonwealth of Learning (Canada):** 2010  
Write 2 training booklets on “Lifelong Learning in Honey Collection, Beekeeping and Apiary” for Voicemail Based Learning in English and Rukiga/Runyankore
- 3. Consultant, Dissect Consultancy Limited (Uganda):** 2009  
Develop a protocol for conducting a baseline study on production and marketing of honey in Uganda for the Farm Income Enhancement and Forest Conservation Project
- 4. Consultant on Animal Breeding and Bee Keeping for *Institut des Sciences Agronomiques du Rwanda (ISAR)*, Ministry of Agriculture & Animal Resources 2011-2012**  
Consultant on Animal Breeding, Rwanda Agriculture Board (RAB), Ministry of Agriculture and Animal Resources, Republic of Rwanda 2012-2016  
Revise & improve the National Breeding Plan; Coordinate research/development in animal breeding; Supervise research activities on the management of animal breeding & genetics; Ensure research on reproduction physiology for local cow races in Rwanda; Implement research projects on the improvement of success rate for artificial insemination; Ensure timely publication of research/development results & a great visibility of RAB; Ensure scientific mentorship for younger researchers from livestock unit; Ensure the training of technical staff of partners in animal breeding & genetics; Strengthen partnership with excellent institutions,

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laboratories & regional organisations & international in research/development for animal reproduction & with key farmers' associations, private sector and projects involved in cattle keeping in Rwanda; Identify infrastructure and equipment required for the modernization of research in animal breeding and genetics; Identify key journals on research/development of animal reproduction and subscription procedures;

**5. Consultant for Regional Universities Forum (RUFORUM):** 2018 (Feb-Mar)

Participate in a facilitation at Baraka College, Molo, Nakuru, Kenya; Provide technical backstopping through contributing to development of occupational standards in pig value chain; Deliver a presentation on the state of the state of the piggy sector in East Africa; Guide the team to appreciate the East Africa level training curriculum; Report writing and submission.

**6. Consultant for Iowa State University (USA):** 2018 (Jul-Dec)

Serve on a 3-member external evaluation team conducting a 7-year review of activities of the Center for Sustainable Rural Livelihoods at Iowa State University and the Iowa State University-Uganda Program in Kamuli, Uganda. Review of historical and current written reports and materials; On-site visit to Kamuli, Uganda, to review ISU-Uganda Program field activities and administrative Structure; Report findings to CSRL team at Iowa State University and prepare written report for submission to team leader

**7. Consultancy on Conservation & Utilisation of African Animal Genetic Resources in the Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA):**

2018-2019  
(Apr-June)

As Acting Regional Coordinator, AU-IBAR AnGR Project; Coordinate the animal genetic resources activities in the East Africa region under the Genetics Project; Ensure active national/regional networking; Provide technical assistance to project implementation; Support communication and awareness creation; Mobilise financial resources

**8. Livestock Value Chain Consultant for ASIGMA Capital Advisory Services Ltd:** 2018-2019

During the Market Systems Analysis for Livestock Value Chain in Northern Uganda; (Sept-Jan) Provide guidance and assistance through reviewing execution strategy; Introducing ASIGMA Advisory to key players and experts in the Livestock Value Chain including large consumers, processors, aggregators and commercial livestock farmers; Provide insights on the Livestock Value Chain structure; Review and make recommendations to the draft and final reports to be submitted to the client.

**9. Consultant for LARIVE International (The Netherlands):** 2020 (Feb-Mar)

As a consultant, conduct research activities for the project "poultry and piggy road map Uganda", including: conducting qualitative interviews with eight different categories of respondents. Their profile being: Commercial feed producers or suppliers such as Koudjis; Breeders of pigs; Farmer organisations and networks;



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Veterinary medicine suppliers; Processors and slaughter houses; Farmers; Government and public sector officials such as from MAAIF livestock department; Sanitary and Phytosanitary unit; Retailers.

### **10. Consultant for Heifer Project International (Uganda):** 2020 (Oct-Nov)

A professional Consultancy on Training and Mentoring Ten East Africa Youth Inclusion Program (EAYIP) youth in Piggery Artificial Insemination (AI) skills in the Project area (Wakiso, Luweero districts). Deliverables: Ten youth are practically trained and competent in piggery AI technical skills; Submit an inception report; Ensure that youth are sensitized and trained about the minimum occupational health and safety standards at the workplace and further ensure that each youth has the requisite piggery AI kits and minimum required protective gear for workplace safety; Ensure that piggery AI entrepreneurial and market information is provided to each youth (e.g. access to market information, standards and qualities, input costs etc.); Submit records of the trainings and technical support visits (including daily attendance lists, assessment and activity reports, and duly signed monitoring visit forms); Maintain and submit records and reports of the mentorships and apprenticeships clearly stipulating the number of youth supported and areas of support and their next engagement in a format acceptable to HPI.

### **11. Consultant for International Livestock Research Institute (ILRI):** 2021-2022

A professional Consultancy on to review and upgrade the existing Genetic improvement strategy for use by the Livestock Policy makers, the National Center for Artificial Insemination and Genetic Improvement (CNIAAG) as well as other actors of livestock sector in Burundi, to provide knowledge on breeding strategies to be used for genetic improvement of dairy cattle in all provinces of Burundi. The existing strategy document was written in French. The main duties of the consultation are: (1) Animal identification, monitoring and feedback to support decision making at farm and national level; (2) Breeds and breeding management strategies for targeted systems; (3) Organizational/ institutional frameworks to support genetic improvement strategies.

## **SHORT COURSES ATTENDED FOR CAREER DEVELOPMENT**

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|---|------|
| <b>1. Proposal Writing with Impact, by AuthorID, INASP</b><br>(International Network for Advancing Science and Policy)  | 2021 |
| <b>2. Research and Proposal Writing in the Sciences, by AuthorID Team, INASP</b><br>(International Network for Advancing Science and Policy), Sept 8-Dec 15,  | 2020 |
| <b>3. How Researchers Changed the World – 12-week mid-career learning program</b><br>on managing mid-career challenges, boosting the impact of your published work,<br>and enhancing research profiles; by Taylor & Francis Group | 2020 |
| <b>4. Evidence-Informed Policymaking Seminar, in Pretoria, South Africa; by</b><br>European Commission, The African Academy of Sciences, UK Research &  |      |

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Innovation; International Network for Government Science Advice; Department of Science and Technology, Republic of South Africa.	2018
<b>5.</b> Linear Mixed Models and Genomic Selection Joint Course, by LUKE (Finland)-ADGG (ILRI), Arusha, Tanzania.	2018
<b>6.</b> Increasing the Development Impact of Agricultural Research, by Australia Africa Awards, in Nairobi, Kenya. Selected as the Best Alumna	2017
<b>7.</b> Postgraduate Supervision by African Doctoral Academy @Stellenbosch University, South Africa. Department of Pharmacy, Makerere Univ.	2017
<b>8.</b> Validation of the Animal Genetic Resources Characterisation, Inventory and Monitoring (AnGR-CIM) Tool for Africa, Naivasha, Kenya by AU-IBAR	2017
<b>9.</b> Assessment of Africa Animal Genetic Resources by AU-IBAR, Dar es Salaam, Tanzania	2014
<b>10.</b> Action Research & Experiential Learning by RUFORUM, @Imperial Botanical Beach Hotel, Entebbe, Uganda.	2013
<b>11.</b> Outcome mapping for smallholder pig value chains by the International Livestock Research Institute, @Ridah Hotel, Mukono	2012
<b>12.</b> Scientific Writing, Communication and Policy Advocacy by CTA/FARA/IFS/ANAFE/ RUFORUM/NEPAD/AGRA, @Imperial Botanical Beach Hotel, Entebbe, Uganda.	2012
<b>13.</b> Experiential Learning by RUFORUM, @Imperial Botanical Hotel, Entebbe, Uganda	2012
<b>14.</b> Multiple Ovulation and Embryo Transfer technology by RARDA/JICA, @Songa Station, Rwanda	2011
<b>15.</b> Bio-Gene Banking by ILRI, @ILRI Principal Site, Addis Ababa, Ethiopia	2010
<b>16.</b> Research Management By Graduate School, Makerere University @Women and Gender Studies Sustainable Use of Animal Genetic Resources in Developing Countries By ILRI, @ILRI, Addis Ababa	2010 2008
<b>17.</b> Introduction to Geographic Information Systems for Research and Decision Making By MUIENR	2008

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| <b>18. Teacher in Higher Education: Role and Pedagogy</b><br>By School of Education, Makerere Univ.                        | 2008 |
| <b>19. Writing Study Materials for Distance Education Courses</b><br>By Distance Education Department, Makerere University | 2008 |
| <b>20. Research Methodology for Doctoral Students</b><br>By School of Education, Makerere University                       | 2008 |
| <b>21. Project Conceptualisation</b><br>By the International Foundation for Science & Makerere University                  | 2007 |
| <b>22. Scientific Writing and Communication</b><br>By Training Centre in Communication–Nairobi                             | 2006 |
| <b>23. Statistical Methods and Computer Applications in Research</b><br>By ISAE, Makerere University                       | 2006 |
| <b>24. Sampling Techniques and Questionnaire Design</b><br>By ILRI, Nairobi  | 2005 |
| <b>25. SAS for Advanced Users</b><br>By ILRI, @Nairobi   | 2005 |
| <b>26. Basic and Intermediate SAS Course</b><br>By ILRI, @Nairobi  | 2005 |
| <b>27. Molecular techniques in Cattle genetic studies as a Fellow of the IAEA,</b><br>ILRI, Nairobi                        | 2004 |
| <b>28. Participatory Methods in Agricultural Extension</b><br>By AGEE Dept, Makerere Univ.                                 | 2002 |
| <b>29. Facilitation and Participatory Planning</b><br>@Lake Victoria Hotel, Entebbe  | 2001 |
| <b>30. Wetland Ecology and Management</b><br>By LVMP, MUIENR, WID, @Lweza Training Centre                                  | 2001 |
| <b>31. Beekeeping for honey, by-products and pollination</b><br>By MASHAV, @CINADCO, Israel                                | 1998 |
| <b>32. Conservation Genetics Course</b><br>@Institute of Ecology, Queen Elizabeth National Park, Kasese                    | 1996 |

## **KUGONZA IN NUMBERS**

125	250	Frequency his publications have been read/downloaded on <b>Research-Gate</b>
11	300	<b>LinkedIn</b> professional connections
860		Citations in <b>Google Scholar</b> of his publications
185		Different scientists he has <b>collaborated</b> and/or co-authored publications with.
67		<b>Original</b> research papers published
59		Peer-reviewed <b>conference papers</b> published
29		Global/Continental/Regional/National <b>Conferences</b> attended
28		Major research <b>grants</b> won
23		<b>Years</b> in his research and teaching career
23		<b>h-index</b> on Google scholar
20		Graduate <b>students</b> supervised
13		<b>Book chapters</b> authored
12		Years <b>coordinating</b> the Makerere Univ. - Iowa State Univ. Collaboration
7		Major <b>mountains</b> climbed (incl. Kilimanjaro, Kenya, Muhabura, Elgon, Uluguru)
8		Research <b>Journals</b> for which he is Reviewer or Sub-Editor or Editor
5		Management/Advisory <b>Boards</b> on which he seats
4		<b>Books</b> authored
4		Academic Degrees acquired
2		Continental <b>awards</b> won for significant research

**Career Goal: “To increase agricultural productivity through inter alia, performance improvement of African Animal Genetic Resources”**