

## CURRICULUM VITAE

**Surname:** Kaaya;

**Other Names:** Archileo Natigo

**Citizenship:** Ugandan

**Sex:** Male

**Marital status:** Married

**Employer:** Makerere University, P.O. Box 7062, Kampala - Uganda.

**Employment Position:** Professor, Dept. of Food Technology & Nutrition

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### Education

- 2005. **PhD (Food Science and Technology)**, Makerere University/Virginia State University, USA
- 2000. **Postgraduate Diploma in Food Security**. Istituto Agronomico Perl'oltremare (IAO), Firenze, Italy.
- 1995: **Master of Science**, University of Florida, USA. **Major:** Postharvest Technology.
- 1991: **Postgraduate Diploma in Education**, Makerere University. Major: Biology and Agriculture.
- 1988: **Bachelor of Science, Agriculture (Hons)**, Crop Science Option.
- 1985: Uganda Advanced Certificate of Education, Nyakasura School: Physics, Chemistry and Biology.
- 1982: Uganda Certificate of Education, Bukumi Secondary School.

### Publications

Mirembe Ruth Marha, Archileo N. Kaaya, Denis Male, Shirley Kansabe, Stephen Lwasa, Daisy Kemigisha, David Kalule Okello, David Musoke, Tom Gill, David Russel Ader, Annie Carter and Carrie Ann Stephens. 2023. Using photovoice to analyse factors that influence peanut product quality and safety along the value chain in Uganda African *Journal of Food Science and Technology*, Vol 14, Issue 10. DOI: <http://dx.doi.org/10.14303//ajfst.2023.047>

Nabakabya D, Fungo R, Tumwine G, Muyonga J.H, **Kaaya A.N**, Keding G.B and J. Sarfo. 2023. Dietary diversity and micronutrient rich food consumption patterns among women of reproductive age in Kayunga and Jinja, Uganda. African Journal of Food, Agriculture, Nutrition and Development. Vol 23, No. 5. <http://ajfand.net/Volume23/No5/Fungo22600.pdf>

Aziiza Nahalomo, Per Ole Iversen, Bård Anders Andreassen, **Archileo N. Kaaya**, Archangel Byaruhanga Rukooko, Peter Milton Rukundo. 2023. Food insecurity, dietary diversity and the right to adequate food among households in landslide-prone communities in Eastern Uganda: A cohort study. *PLoS ONE* 18(4): e0283078. <https://doi.org/10.1371/journal.pone.0283078>

Mirembe Ruth Marha, Archileo N. Kaaya, Denis Male, Shirley Kansabe, Stephen Lwasa, Daisy Kemigisha, David Kalule Okello, David Musoke, Tom Gill, David Russel Ader, Annie Carter and Carrie Ann Stephens. 2023. Feasibility of using photovoice for assessment of peanut quality and safety along the value chain: Perspectives of youth in rural Uganda. *African Journal of Food Science and Technology*, Vol 14, Issue 5. DOI: <http://dx.doi.org/10.14303//ajfst.2023.021>

Flora Christine Amgloh, Gaston Ampe Tumuhimbise, Benard Yada, Arnold Katungisa, Francis Kweku Amagloh and **Archileo Natigo Kaaya**. 2023. Cooking sweetpotato roots increases the in vitro bioaccessibility of phytochemicals and antioxidant activities, but not vitamin C. *Journal of Functional Foods* Volume 102. <https://doi.org/10.1016/j.jff.2023.105453>

Christopher Muggaga, Ipolto Okello-Uma, **Archileo Natigo Kaaya**, David Taylor, Duncan Ongeng & Mugonola Basil 2023. Dietary intake and socio-economic predictors of inadequate energy and nutrient intake among women of childbearing age in Karamoja sub-region of Uganda. *Journal of Health, Population and Nutrition* 42:12 <https://doi.org/10.1186/s41043-023-00351-z>

Amagloh Flora C., **Archileo N. Kaaya**, Gaston A. Tumuhimbise, Arnold Katungisa, Francis K. Amagloh and Benard Yada. 2022. Household Processing Methods and Their Impact on Bioactive Compounds and Antioxidant Activities of Sweetpotato Genotypes of Varying Storage Root Flesh Colours. *Antioxidants* 2022, 11,1867. <https://doi.org/10.3390/antiox11101867>

Christopher Muggaga, Mugonola Basil, Ipolto Okello-Uma, **Archileo Natigo Kaaya**, David Taylor and Duncan Ongeng. 2022. Recommended daily allowance-based contribution of household's own agricultural production to food and nutrition security in Karamoja sub-region of Uganda. *Agriculture & Food Security*. <https://doi.org/10.1186/s40066-021-00352-3>

Aziiza Nahalomo, Per Ole Iversen, Bård Anders Andreassen, **Archileo Natigo Kaaya**, Archangel Byaruhanga Rukooko, Gerald Tushabe, Nancy Catherine Nateme, and Peter Milton Rukundo 2022. Malnutrition and Associated Risk Factors among Children 6-59 Months Old in the Landslide-prone Bududa District, Eastern Uganda: A Cohort Study . *Current Developments in Nutrition*, nzac005, <https://doi.org/10.1093/cdn/nzac005>

Flora C. Amagloh, Benard Yada, Gaston A. Tumuhimbise, Francis K. Amagloh and **Archileo N. Kaaya**. 2021. The Potential of Sweetpotato as a Functional Food in Sub-Saharan Africa and Its Implications for Health: A Review. *Molecules*, Vol 26, issue 10; [10.3390/molecules2610297](https://doi.org/10.3390/molecules2610297)

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Joseph Mulindwa, **Archileo N Kaaya**, Lawrence Muganga, Moses Paga, Pascal Musoli, Godfrey Sseremba, William W Wagoire, Daphne N Bitalo. 2021. Cup quality profiles of Robusta coffee wilt disease resistant varieties grown in three agro-ecologies in Uganda. *Journal of The Science of Food and Agriculture*, <https://doi.org/10.1002/jsfa.11460>

Wasswa, M.S, Fungo, R, **Kaaya, A. N**, Byarugaba, R and Muyonga J.H. 2021. Influence of sun drying and a combination of boiling and sun drying on the retention of nutrients and bioactive compounds in cowpea (*Vigna unguiculata* (L). Walp) leaves. *African Journal of Biological Sciences*, 3(3) (2021) 48-58. <https://doi.org/10.33472/AFJBS.3.3.2021.48-58>

Muggaga C, Ongeng D, Mugonola B, Okello-Uma I, **Kaaya N.A** and D. Taylor. 2021. Seasonal variability in food and nutrition security among children 0-3 years in Karamoja sub-region of Uganda *African Journal of Food, Agriculture, Nutrition and Development*. Volume 21 No. 8. <https://doi.org/10.18697/ajfand.103.16920>

Kikomeko, P.K., Ochola, S., **Kaaya, A.N.**, Ogada I, Lukiya T. B and P. Nakitto. 2021. Stakeholders' perceptions of the nutrition and dietetics needs and the requisite professional competencies in Uganda: a cross-sectional mixed methods study. *BMC Health Services Research* **21**, 92 (2021). <https://doi.org/10.1186/s12913-021-06090-3>

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Nakavuma Jesca L., Angella Kirabo, Paul Bogere, Margaret M. Nabulime, **Archileo N. Kaaya** and Benoit Gnonlonfin. 2020. Awareness of mycotoxins and occurrence of aflatoxins in poultry feeds and feed ingredients in selected regions of Uganda. *International Journal of Food Contamination*. Vol 7:1 <https://doi.org/10.1186/s40550-020-00079-2>

Fungo,Rr.; Tieguhong, J.C.; Iponga, D.M.; Tchatat, M.; Kahindo, J.M.; Muyonga, J.H.; Donn, P.; Tchingsabe, O.; **Kaaya, A.N.**; Ngondi, J.L.; Tutu, S.; Emeleme, R. Odjo, S.; Loo, J.and Snook, I. 2020. Can wild forest foods contribute to food security and dietary diversity of rural populations adjoining forest concessions? Insights from Gabon, DR Congo and Cameroon. *International Forestry Review*. <https://www.ingentaconnect.com/content/cfa/ifr/pre-prints/content-x>

Nakakawa, F., J. Mugisha, G. M. Diiro, **A.N. Kaaya** and N. M. Tumwesigye. 2020. Food and nutrition status of households with women living with HIV in Uganda. *Scientific African* (2020) e00394

Friesen Valerie M, Mduduzi NN Mbuya, Grant J Aaron, Helena Pachón, Olufemi Adegoke, Ramadhani A Noor, Rina Swart, **Archileo N. Kaaya**, Frank T. Wieringa and Lynnette M Neufeld. 2020. Fortified Foods Are Major Contributors to Apparent Intakes of Vitamin A and Iodine, but Not Iron, in Diets of Women of Reproductive Age in 4 African Countries. *The Journal of Nutrition* doi: <https://doi.org/10.1093/jn/nxaa167>

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Bukusuba, John, **Archileo N. Kaaya** and Abel Atukwase. 2017. Predictors of Stunting in Children Aged 6 to 59 Months: A Case-Control Study in Southwest Uganda. *Food and Nutrition Bulletin*, doi.org/10.1177/0379572117731666

Bukusuba, John, **Archileo N. Kaaya** and Abel Atukwase. 2017. Risk factors for stunted growth among children aged 6–59 months in rural Uganda, *International Journal of Nutrition*, 3:1-13

Enrique Ritter, Leire Barrandalla, Zacharia Malley, Martin Patrick Ongol, **Archileo Kaaya**, George Ooko, María del Rosario Mínguez, Jose Ignacio Ruiz de Galarreta. 2017. The Spirit Project: Strengthening the Capacities for Fostering Innovation Along Potato Value Chains in East Africa. 2017. *Open Agriculture*. 2017; 2: 425–430.

Robert Fungo, John Muyonga, Margaret Kabahenda, **Archileo Kaaya**, Clement A Okia, Pauline Donn, Tchatat Mathurin, Obadia Tchingsabe, Julius C Tiegehungo, Judy Loo and Laura Snook. 2016. Contribution of forest foods to dietary intake and their association with household food insecurity: a cross-sectional study in women from rural Cameroon. *Public Health Nutrition*: doi:10.1017/S1368980016001324

Jessica Nanyunja, Liesbeth Jacxsens, Klementina Kirezieva, **Archileo N. Kaaya**, Mieke Uyttendaele and Pieter A Luning 2016. Shift in performance of food safety management systems in supply chains: case of green bean chain in Kenya versus hot pepper chain in Uganda, *Journal of the Science of Food and Agriculture* 96: 3380–3392

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Abong George, Victoria Makungu, Archileo Kaaya and Peter Sopade. 2016. A Review of Production, Postharvest Handling and Marketing of Sweetpotatoes in Kenya and Uganda. *Current Research in Nutrition and Food Science Journal* 4(3) 163-182. Doi:10.12944/CRNFSJ.4.3.03

Kigozi, J. N. Banadda, Y. Byaruhanga, **A. Kaaya** and F. Lule. 2015. Mathematical modeling of sorghum ice-creamcone texture characteristics using the cone formulation. *Journal of Advances in Food Science & Technology* 2(2): 71-80, 2015

Nanyunja,J., Jacxsens,L; K. Kirezieva, **A. N. Kaaya**, M. Uyttendaele, and P.A. Luning. 2015. Assessing the Status of Food Safety Management Systems for Fresh Produce Production in East Africa: Evidence from Certified Green Bean Farms in Kenya and Noncertified Hot Pepper Farms in Uganda. *Journal of Food Protection*, Vol. 78, No. 6, 2015, Pages 1081–1089

Kazadi Minzagi., Pius T. Mpiana, Bashwira Samvura, **Archileo N. Kaaya**, Matthäus Bertrand and Justin N. Kadima. 2015. Composition of Fatty Acids and Tocopherols Content in Oilseeds of Six Wild Selected Plants from Kahuzi-Biega National Park/DR. Congo. *European Journal of Medicinal Plants*. 8(3): 157-166

Osuret Jimmy, Geoffrey Musinguzi, Trasias Mukama, Abdullah Ali Halage, **Archileo Natigo Kaaya**, John C. Ssempebwa and Jia-Sheng Wang. 2015 Aflatoxin Contamination of Selected Staple Foods Sold for Human Consumption in Kampala Markets, Uganda. *Journal of Biological Sciences*, 2015. [www.ansinet.com](http://www.ansinet.com)

Christie, M. E., P. Kyamureku, **A. Kaaya** and A. Devenport. 2015. Farmers, peanuts, and aflatoxins in Uganda: A gendered approach, *Development in Practice* 25:1, 4-18, DOI: 10.1080/09614524.2015.983459

Kaya-Celiker, Hande P. Kumar Mallikarjunan and **Archileo Kaaya**. 2015. Characterization of Invasion of Genus *Aspergillus* on Peanut Seeds Using FTIR-PAS. *Food Analytical Methods* DOI 10.1007/s12161-015-0159-x

Kaya-Celiker, H. P. K. Mallikarjunan and **A. N. Kaaya**. 2015. Mid-infrared spectroscopy for discrimination and classification of *Aspergillus* spp. contamination in peanuts. *Food Control* 52 (2015) 103 - 111

Robert Fungo, John Muyonga, **Archileo N. Kaaya**, Clement Okia, Juius C. Tieguhong & Jojo J. Baidu-Forson. 2015. Nutrients and bioactive compounds content of *Baillonella toxisperma*, *Trichoscypha abut* and *Pentaclethra macrophylla* from Cameroon. *Food Science & Nutrition* DOI - 10.1002/fsn3.217

Josephine Nabugoomu, Agnes Namutebi, **Archileo N. Kaaya**, George Nasinyama, 2015. Nutrition Education Influences Vitamin A-Related Knowledge, Attitudes, and Practices of Child Caregivers Towards the Production of Orange-Fleshed Sweet Potato in Uganda, *Journal of Food and Nutrition Sciences*. Vol. 3, No. 2, 2015, pp. 38-46. doi: 10.11648/j.jfns.20150302.13

Josephine Nabugoomu, Agnes Namutebi, **Archileo N. Kaaya**, George Nasinyama, 2015. Nutrition Education Influences Child Feeding Knowledge Attitudes and Practices of Caregivers in Uganda, *American Journal of Health Research*. Vol. 3, No. 2, 2015, pp. 82-90. doi: 10.11648/j.ajhr.20150302.15

Gershim A. J. Seeley, C. Srey, K. Baisley, T.Lightfoot,**A. N. Kaaya**, D. Agol, A.Abaasa, K. Wakeham, M. N. Routledge, C. P. Wild, R. Newton and Y. Y. Gong. 2014. A pilot study to evaluate

aflatoxin exposure in a rural Ugandan population. *Tropical Medicine and International Health*, Volume 19 No. 5 pp 592–599

Wambi. W., P.Tukamuhabwa, N. Puppala, S. D.K. Okello, R.G.Nalugo and **A. N. Kaaya**.(2014). Narrow sense heritability and gene effects for late leaf spot resistance in valencia groundnuts. *African journal of crop science*.22:327-336

Kigozi J., Y. Byaruhanga, N. Banadda and **A. N. Kaaya**. 2013. Characterisation of the Physico-chemical Properties of Selected White Sorghum Grain and Flours for the Production of Ice Cream Cones. *The Open Food Science Journal*, 2013, 7, 23-33

Kyamuhangire, William; Lubowa, Abdelrahman; **Kaaya, Archileo**; Kikafunda, Joyce; Harvey, Philip W.J.; Rambeloson, Zo; Dary, Omar; Dror, Daphna K.; Allen, Lindsay H.2013. The importance of using food and nutrient intake data to identify appropriate vehicles and estimate potential benefits of food fortification in Uganda. *Food & Nutrition Bulletin*, Volume 34, Number 2, June 2013 , pp. 131-142(12)

Olwari F, Bisikwa J, **Kaaya A.N**, and Okello D.K. 2013. Tolerance Levels of Peanut Varieties against *Aspergillus flavus* Infection. *Journal of Plant Pathology & Microbiology* 4 (8): 195 doi:10.4172/2157-7471.1000195.

Atukwase A., **A. N. Kaaya** and Charles Muyanja. 2012. Dynamics of *Fusarium* and fumonisins in maize during storage – A case of the traditional storage structures commonly used in Uganda. *Food Control*. 26(1): 200 – 2005.

Atukwase, A., **A. N. Kaaya**, Charles Muyanja, Hester Vismer and John. P. Rheeder. 2012. Diversity of *Gibberella fujikuroi* species complex isolated from maize produced in Uganda. *International Journal of Plant Pathology* 2012. Current issue, available online.

Kigozi, J., Y. Byaruhanga, **A. N. Kaaya** and N. Banadda. 2011. Development of the Production Process for Sorghum Ice-Cream Cones. *Journal of Food Technology* 9 (6): 143 – 149.

Wamono, E.B.K., **A.N. Kaaya**, Z. Ng'ang'a, G. Wamue, A. Manyama, M. Mwangi, J.H Muyonga. 2011. Nutrient-enhancement of *Matooke* banana for improved nutrient intake of people living with HIV/AIDS in Rakai District, Uganda. *African Journal of Food, Agriculture, Nutrition and Development*. Vol 11, No.4 (July 2011). Available online: <http://www.ajol.info/index.php/ajfand/index>

Minzangi, K., **A. N. Kaaya**, F. Kansiime, J. R. S. Tabuti, B. Samvura, and O. Grahl-Nielsen. 2011. Fatty acid composition of seed oils from selected wild plants of Kahuzi-Biega National Park and surroundings, Democratic Republic of Congo. *African Journal of Food Science* Vol 5.(3) March 2011.

Minzangi, K., **A. N. Kaaya**, F. Kansiime, J. R.S. Tabuti and B.Samvura. 2011. Oil content and physicochemical characteristics of some wild oilseed plants from Kivu region Eastern Democratic Republic of Congo. *African Journal of Biotechnology* Vol. 10(2): 189 – 195.

Okilya, S., I. M. Mukisa and **A. N. Kaaya**. 2010. Effect of Solar drying on the quality and acceptability of jackfruit leather. *Electronic Journal of Environmental, Agricultural and Food Chemistry* 9 (1) 101 – 111.

Mutegi, C., J. Kimani, G. Otieno, R. Wanyama, M. E. Christie, K. Mallikarjunan and **A. Kaaya**. 2010. Peanut aflatoxin levels under different market attributes. *East African Agriculture and Forestry Journal* 77(2), 95-103

**Kaaya A. N.** and D. Eboku. 2010. Mould and aflatoxin contamination of cassava chips in Eastern Uganda: Association with traditional processing and storage practices. *Journal of Biological Sciences* 10 (8) 718 – 729.

**Kaaya A. N.** and W. Kyamuhangire. 2010. Drying Maize Using Biomass-heated Natural Convection Dryer Improves Grain Quality During Storage. *Journal of Applied Sciences* 10 (11): 967 – 974.

Atukwase, A., **Kaaya A. N.** and C. Muyanja. 2009. Factors associated with fumonisins contamination of maize in Uganda. *Journal of the Science of Food and Agriculture*, 89: 2393 – 2398.

Bigirwa, G., **Kaaya, A.N.**, Sseruwu, G., Adipala, E. and Okanya, S. 2007. Incidence and severity of maize ear rots and factors responsible for their occurrence in Uganda. *Journal of Applied Sciences* 7 (23): 3780 – 3785.

**Kaaya, N. A** and W. Kyamuhangire. 2006. The effect of storage time and agroecological zone on mould incidence and aflatoxin contamination of maize from traders in Uganda *International Journal of Food Microbiology, Volume 110(3) 217-223*

**Kaaya, N. A,** W. Kyamuhangire and S. Kyamanywa. 2006. Factors Affecting Aflatoxin Contamination of Harvested Maize in the Three Agroecological Zones of Uganda. *Journal of Applied Sciences* 6 (11) 2401 – 2407.

**Kaaya, N. A,** W. Eigel and C. Harris. 2006. Peanut Aflatoxin Levels on Farms and in Markets of Uganda *Peanut Science* 33: 68 – 75.

Bigirwa G., G. Sseruwu, **A. N. Kaaya,** E. Adipala and S. Okanya. 2006. Fungal mycoflora causing Maize Ear Rots in Uganda and Associated Aflatoxins. *Journal of Biological Sciences* 6 (3); 540 – 546.

**Kaaya N. A.,** Herman L. Warren, Samuel Kyamanywa and William Kyamuhangire. 2005. The Effect of delayed harvest on moisture content, insect damage, moulds and aflatoxin contamination of maize in Mayuge district of Uganda. *Journal of the Science of Food and Agriculture* 85: 2595-2599.

**Kaaya N. A** and H. L. Warren. 2005. A Review of Past and Present Research on Aflatoxin in Uganda. *African Journal of Food, Agriculture, Nutrition and Development. Volume 5, No. 1.*

**Kaaya N. A** and C. Harris. 2003. Aflatoxin Contamination in Groundnut in Uganda. *International Arachis, No. 23.* pp 24-25.

**Kaaya N. A,** H. Warren and E. Adipala. 2000. Moulds and aflatoxin contamination of maize and groundnuts in Mayuge and Kumi Districts of Uganda. *MUARIK Bulletin, Vol.3, pp 33 – 41.*

**Kaaya N. A** and C. K. Njoroge. 2004. Effect of physical injury on the quality of tomatoes (*Lycopersicon esculantum*). *African Journal of Food, Agriculture, Nutrition and Development*. Volume 4, No. 2.

**Kaaya N. A.** 2004. DithaneM-45 Residues in Tomatoes on Uganda Markets may be Above Safe Levels. *African Journal of Food, Agriculture, Nutrition and Development*. Volume 4, No. 1.

**Kaaya N. A.** 2002 Developments in Food Science and Technology in Uganda: Present situation and the way forward. *Uganda Journal of Agricultural Sciences*, 7: 13 – 18

**Kaaya N. A,** A. Namutebi and J. Tujjunge. 2002. Chemical and nutrient composition of tomato varieties grown in Uganda. *Uganda Journal of Agricultural Sciences*, 7: 19 – 22

**Kaaya N. A.** 2000. Small-scale production of ready-to-drink pineapple juice. *Food Chain*. 27. *The International Journal of Small-Scale Food Processing*. pp. 12 – 14.

Namulema, A., J. Muyonga and **A. N. Kaaya**. 1999. Quality Deterioration in Frozen Nile perch (*Lates niloticus*) stored at -13 and -27°C. *Food Research International* 32 151 - 156. 1999.

## **TEXT BOOKS/CHAPTER PUBLICATIONS**

Olwali, Frank, **Archileo N. Kaaya** and Jenipher Bisikwa, 2012. Evaluation of peanuts for mold and aflatoxin contamination. LAP Lambert Academic Publishing Co. Germany

Okello, D. K., **A. N. Kaaya**, J. Bisikwa, M. Were and H. K. Oloka. 2010. Management of Aflatoxins in Groundnuts: A Manual for Farmers, Processors, Traders and Consumers in Uganda. ISBN: 978-9970-401-00-0.

Christie, M. E., P. T. Kyamureku and **A. N. Kaaya**. (2010) Farmers' Stories from Kamuli: Groundnut Knowledge, Recipes and Everyday Life. Pages 41. DESIGNiT Pub. Ltd, Kampala-Uganda.

**Kaaya, N. A,** C. J. Mutyaba and A. Atukwase. 2007. Post-harvest Handling and Storage of Food. In: Food and Nutrition for Uganda: Principles and Community Needs. Pages 165 – 186. Fountain Publishers, Kampala-Uganda.

**Kaaya N. A. 1999.** Postharvest Systems in Uganda: The Processing and Storing of Horticultural Commodities. In: J. F. Devlin and T. Zettel (Eds). *Ecoagriculture: Initiatives in Eastern and Southern Africa*. The University of Guelph, Canada. Weaver Press Pub. Co. P.O. Box A1922, Avondale, Harare, Zimbabwe. Chapter 21, pp. 257 - 269.

### **Important Administrative Positions held**

- 2009 – 2011. Deputy Dean, Faculty of Agriculture, Makerere University ( in charge of undergraduate Training)
- 2011-2019. Head, Department of Food Technology & Nutrition, Makerere University
- 2009 – 2011. Acted as Dean, Faculty of Agriculture: several occasions when substantive Dean was away
- I also acted several times as Dean, School of Food Technology Nutrition & Bioengineering.

## Research/Consultancy (Selected)

### Research (over 20 years of research experience as Principle Investigator or collaborator)

- September 2023 to date (PI). Up-scaling the uptake of cocoa innovative technologies for enhanced value addition during primary processing (UPCOTEPP). Research between Makerere University and National Coffee Research Institute, NACORI-
- July 2021-December 2023. Co-PI. Up-scaling of cocoa postharvest innovative technologies for enhanced productivity and utilization of cocoa pulp waste. Research between Makerere University and National Coffee Research Institute, NACORI-NARO. Funded by Ministry of Science and Technology, Uganda
- October 2018 to April, 2022. Principle Investigator (PI), Fruits and Vegetables for All Seasons (FRUVASE) Project. A collaborative project with University of Gottingen (Germany), Makerere University (Uganda), University of Nairobi (Kenya), Eldoret University (Kenya) and Nelson Mandela University, Tanzania Funded by Federal Republic of Germany
- December 2018 – to-February 2022: (PI): Enhancing nutritional benefits and safety of maize to improve the health of Africans. Project conducted in collaboration with Univ of Maryland and FARM STEW NGO, Uganda. Funded by Nestle Foundation
- February 2019 to September 2022: Co-PI and Coordinator of Project on behalf of Makerere University: Photovoice for youth empowerment in peanut value chains in Uganda. Project collaborates with University of Tennessee, USA. Funded by the USAID Peanut Innovation Lab
- 2018-2021. Co-PI. Directing Cocoa waste to wealth using known yeast strains from Ugandan box fermentation. . Research between Makerere University and National Coffee Research Institute, NACORI-NARO. Funded by Science Granting Councils Initiative through Uganda National Council for Science and Technology.
- 2018-2019. Co-PI. Development of a biological mycotoxin-binder for improving the safety of the livestock feeds and animal productivity in Uganda. Funded by NARO
- 2018: PI. Unlocking the potential of chia production and utilisation in Uganda. Funded by The Food Technology and Business Incubation Centre, Makerere University, Uganda
- Jan-June 2017. PI: Research “Development and evaluation of simplified dietary assessment tools in rural/semi-rural women in Uganda”. Funded by Global Alliance for Improved Nutrition (GAIN)/USAID
- 2015: PI: National Fortification Assessment of the coverage and potential contribution of fortified foods to the micronutrient intake of the population in Uganda. Survey conducted using the Fortification Assessment Coverage Tool (FACT) developed by The Global Alliance for Improved Nutrition (GAIN)/USAID
- 2014: PI. Determination of aflatoxin levels in milled maize in selected districts of Uganda. Chemonics International Inc USAID/Uganda Feed the Future Enabling Environment for Agriculture, USAID
- 2013-2016: PI: Strengthening the capacities for fostering innovation along potato value chains in East Africa (SPIRIT). Project funded by ACP-EU Co-operation Programme in Science and Technology (S&T II): Europe Aid
- 2013-2016. PI: Capacity Building for “E-Learning Network on Food and Nutrition Security with Partner Universities in Eastern Africa and Europe (eLEFANS) Project funded by ACP-EU Co-operation Programme in Science and Technology (S&T II): Europe Aid
- 2004 – 2012: **Country Coordinator:** PEANUT CRSP USAID funded Project on Improving the health and livelihood of people of East Africa by addressing aflatoxin and gender-related constraints in peanut production, processing and marketing.

## Consultancy

- March –November 2023. Strategic Analysis of Policy, Legal and Institutional frameworks for the Transformation of Food Systems in Uganda, Contract No. FMM 150/GLO/MUL, Funded by FAO.
- Sustainably Managing Aflatoxins in Maize Using a Systems Approach in Uganda. July – December, 2023. World Bank funded Sub-contract No. STDF/PPG/847.
- A study on aflatoxin economic impact in Uganda. May-September, 2023. Feed the Future Institutional and Systems Strengthening Activity, Contract No. 72061721C003
- July –December 2022. PI: Assessment of Aflatoxin Incidence and Occurrence in Uganda. A case for maize, groundnuts, cassava and animal feeds. Funded by USAID FtF Uganda Agriculture Research Activity, National Agricultural Research Institute (NARO)
- July – September 2021. Consultant/Technical Assistant, UN Food Systems Summit Action Track 5-Building Resilience to Vulnerability, Shocks and Stresses on Food Systems. World Food Programme (WFP) SSA9 Programme Policy Officer.
- March-July, 2021. Country Consultant, Systems Approach to Better Education Results (SABER) School Feeding, Health and Nutrition Assessment. World Food Programme SSA9 Programme Policy Officer.
- September 2020. Training of Kilimo Trust Groups of farmers, in Food Processing and Preservation including Product development from fruits like tomatoes. Funded by Kilimo Trust.
- May-August 2020. Consultant: Development of Post-harvest Management and Products' Processing Training Manuals for Tomato and Watermelon Value chains. Funded by Kilimo Trust Ltd under Farm Income Enhancement and Forestry Conservation (FIEFOC-II) Project
- April-June, 2020. National Post-harvest Loss Reduction Consultant. Funded by FAO Project No. TCP/SFE/3702 (OT.SFEDD. OTCP180018284)
- March-May 2019. Resource person, training of African Union experts for the Malabo Declaration-CAADP Biennial Review: Postharvest Loss and Food Safety Indices.
- December 2018 – August 2019. Consultant: Development of a Training Manual for Extension Staff for use in dissemination of information, education and communication awareness on aflatoxins management to farmers in Uganda. Feed the Future Uganda Enabling Environment for Agriculture Activity. USAID FtF Chemonics International Inc.
- April – July, 2017. Lead Expert, Development of Curriculum for the MSc Course on Food Safety and Management, Funded by QUISP Project, Ministry of Trade Industry & Cooperatives.
- August – December, 2018. Consultant: Evaluation of Applicants for the African Food Safety Laboratory Centres of Excellence. InterAfrica Bureau for Animal Resources (IBAR), Nairobi-Kenya
- March 2018 to September 2018. Consultant: Development of information, education and communication awareness materials on aflatoxins management in Uganda. Feed the Future Uganda Enabling Environment for Agriculture Activity. Chemonics International Inc.
- Dec. 2017 – Feb 2018. Rwanda Country-Level Consultant: Mitigation Solutions for Aflatoxin Contamination in Selected Feed Ingredients in Developing Countries: Apparent Demand and Products Already in Use. University of Florida, USA, Feed the Future Innovation Lab for Livestock Systems
- 2017. World Bank Short Term Consultant, worked with the staff of International Finance Corporation (IFC) to develop strategies to manage aflatoxin contamination of maize-based products processed by Africa Improved Foods (AIF), Kigali, Rwanda
- 2016. Lead Consultant: Cocoa Quality processors Training. Funded by OLAM Cocoa Company Ltd. 2014-2015. Lead Consultant: Determination of postharvest losses of maize, beans and rice in Apac and Dokolo districts of Uganda. Funded by Sasakawa Global 2000.

- 2015-2017: Lead Consultant, Development of Aflatoxin Control Action Plan of Uganda and Mainstreaming into National Frameworks,. Partnership for Aflatoxin Control in Africa (PACA)/Meridian Institute Consultancy.
- 2004 -2016. PI: Partnerships to strengthen university “capacity building for e-learning network on food and nutrition security with partner universities in eastern Africa and Europe”- elefans. Funded by ACP/EDULINK.
- 2014-15: Lead Consultant, conducting Uganda country-led situational analysis for the mitigation of aflatoxin within the National Food Safety System of Uganda. Partnership for Aflatoxin Control in Africa (PACA)/Meridian Institute Consultancy.
- 2014-2015: Consultant: Training of groundnut farmers and processors in Zambia (Chipata) Mozambique (Nampula) and Malawi (Blantyre) on Blanching and Sorting Techniques for removal of aflatoxins from groundnuts. AECOM International Development, Southern trade Hub, USAID Contract No. 857-C14-008

### **Teaching/Training Ability and Experience**

- Currently Professor, Department of Food Technology & Nutrition, Makerere University teaching the following courses:
  - Postgraduates: FST 7201 Postharvest Technology of Plant products.
  - Undergraduates: FST 1102 Introduction to Food Science and Technology; FST 3215 Postharvest Technology, FST 3209 Postharvest Technology and Small-scale Agroprocessing
- Aug 2019, Training of Agric. Extension Staff from various districts of Uganda on Postharvest technology of maize, beans and rice under MAAIF refresher training on Integrated Production and Productivity Management (IPPM) for beans, coffee, rice and maize under the Agriculture Cluster Development Project (ACDP).
- July-December 2017. Training of Agricultural Extension Staff from selected Districts of Uganda on Postharvest Technology and Food Safety Systems in Uganda. MAAIF Project with College of Agricultural and Environmental Sciences, Makerere Univ.
- January 2010. Training of AICAD participants in Value addition to cereals and legumes. Makerere University Centre for Continuing Education, Kabanyolo
- February 4 – 8, 2008. Training of women entrepreneurs in processing of cereal and legume products. Funded by The Uganda National Council for Science and Technology.
- January 2009. Training of AICAD participants in Value addition to cereals and legumes.
- November 20 – 7 December, 2006: Training of Food Inspectors from Kampala, Mpigi, Wakiso and Mukono Districts of Uganda in Packaging materials and Food Safety; and Inspection Techniques for cereals, fruits and vegetables. A Certificate Course funded by United Nations Industrial development Organization (UNIDO).

### **Supervision of Postgraduate students to completion:**

#### ○ **PhD students**

- Frances Nakakawa (PhD, Agricultural Economics), Makerere University, 2024
- Flora C. Amagloh (PhD, Food Science and Technology), Makerere University, 2023
- Prudence Atukunda (PhD, Human Nutrition), University of Oslo, Norway, 2021
- Christopher Mugagga (PhD, Food Science), Gulu University 2020
- John Mukisa (PhD, Applied Human Nutrition), Makerere University, 2019
- Jessica Nanyunja Sentongo B. (PhD Applied Biological Sciences), University of Gent, Belgium (2015).
- Ms. Julia Kigozi (PhD Food Science and Technology). Makerere University, 2015
- Abel Atukwase (PhD Food Science & Technology), Makerere University, 2012

- Hande Kaya, PhD in Biotech Engineering, Virginia Polytechnic & State University, USA, 2012

- **Masters Students**

- Ms. Jacqueline Acaa (MSc Applied Human Nutrition) Makerere University, 2024
- Ms. Vivian Zawedde (MSc Food Science and Technology) Makerere University, 2023
- Ms. Martha Ruth Mirembe (MSc Food Science and Technology) Makerere University, 2023
- Mr. Nviiri Geoffrey (MSc Animal Science) Makerere University, 2021
- Ms. Naggayi Maureen (MSc Applied Human Nutrition) Makerere University, 2021
- Mr. Waswa Michael (MSc Food Science and Technology) Makerere University, 2021
- Mr. Bojo Opend (Msc Applied Human Nutrition): Makerere University, 2019
- Mr. Hakim Mufumbiro. (MSc. Food Science and Technology), Makerere University, 2018
- Mr. John Senkumba (MSc. Food Science and Technology), Makerere University, 2017
- Ms. Atukunda Suzan Pearl (Msc Applied Human Nutrition): Makerere University, 2016
- Ms. Ngonzi Doris (Msc Applied Human Nutrition): Makerere University, 2016
- Mr. Mulindwa Joseph (MSc. Food Science and Technology) Makerere University, 2014
- Mr. Waliomuzibu George (Msc Applied Human Nutrition): 2013
- Ms. Nansereko Sophie (Msc Applied Human Nutrition): 2013
- Frank Olwari (Msc. Crop science), Makerere University, 2012
- Ms. Esther Wamono: (MSc Applied Human Nutrition), Makerere University, 2011
- Ms. Grace Komaketch: Submitted (MSc Applied Human Nutrition), Makerere University, 2011
- Ms. Anna Grace Anyango (MSc Applied Human Nutrition) Makerere University 2011
- Ms. Tadia Sophie (MSc Food Science and Technology) Makerere University 2011
- Ms. D. Mamuli: (MSc Applied Human Nutrition) Makerere University. 2010
- Mr. David Eboku: (MSc Food Science and Technology) Makerere University, 2010
- Mr. Moses Matovu: (MSc Applied Human Nutrition), Makerere University, 2010
- Ms. Nulu Nansikombi: (MSc Food Science and Technology), Makerere University 2010
- Mr. Minzagi Kazadi: (MSc. Environment and Natural Resources), Makerere University, 2010.
- Mr. S. Biribonwa (MSc Applied Human Nutrition), Makerere University 2008
- Ms. Sarah Kisakye (MSc Applied Human Nutrition), Makerere University, 2008
- Mr. Richard Ninsiima (MSc Applied Human Nutrition), Makerere University, 2007

#### **Awards**

1. 2023: Winner, Annual Agriculture Award (2022/23); Uganda Food Systems Category
2. 2018. Winner, African Union Agent of Change for Aflatoxin Control in Africa in the category of Research and Technology
3. 2016. Fellow, Uganda National Academy of Sciences (UNAS)
4. 2016. Partnership for Aflatoxin Control in Africa (PACA) Champions in Aflatoxin Mitigation; Research and Technology Award. Second run-up.
5. 2009. Uganda National Bureau of Standards Award: Best Scientist in generating aflatoxin data in Uganda

#### **Reviewer**

- International Journal of Food Science and Nutrition
- African Journal of Food, Agriculture, Nutrition and Development (AJFAND)
- Asian Network for Scientific Information (ANSInet) Journals
- African Health Sciences

### **Examiner**

- Have been External Examiner for several PhD and MSc Theses/Dissertations in East, West, Central and Southern Africa
- External Examiner, Undergraduate Programmes in the Department of Food Processing Technology Programme, Kyambogo University: June 2009-2012; 2018-2020.

### **Conferences/Meetings organized**

- 2023. Fourth All Africa Postharvest Congress and Exhibition. 19th to 22nd September, 2023, held at the African Union Headquarters in Addis Ababa Ethiopia. Member, Technical Committee on “Unpacking food loss and waste: measurement, extent, drivers/causes, impact on food and nutrition security, environment, economies and livelihoods”
- 2021: Third All Africa Postharvest Congress 13 – 17 September 2021, Member, Technical Committee on Innovative technologies, tools, practices and training/capacity building to reduce postharvest losses in food supply chains
- 2021: UN Food Systems Summit; Led Action Track 5 - Building Resilience to Vulnerabilities, Shocks and Stress on Food Systems. Arranged and facilitated 4 country dialogues on Action Track 5, attended all dialogues for other Action Tracks and was among the 4 Technical Assistants who wrote the Uganda Country Paper that was presented by the Minister of Agriculture during the Summit on September 23, 2021

### **Presented the following Papers in National and international conferences/workshops/short courses (Selected)**

- Key Note Address: The Impact of aflatoxin on the Ugandan Economy during the 10th African Grain Trade Summit, 5th to 7th October 2023, at the Speke Resort, Munyonyo, Uganda
- Impacts of aflatoxin in Africa. Presented during the African Union Capacity Building Workshop on Domesticating the AU Strategic Framework for Holistic Aflatoxin Control, 2-3 Oct. 2023, Lusaka, Zambia.
- International Maximum Limits for aflatoxin Control in food and feeds. Training Workshop on Aflatoxin Sampling Protocols for the Tripartite Area. Lilongwe, Malawi, September 11-12, 2023
- Food Safety Shaking Food Systems in Uganda. Paper presented during the Workshop organized by the Office of the Prime Minister to sensitize Ministries, Departments and Agencies on Food Systems. September 13-15 September, 2023, Ridar Hotel, Mukono.
- Food Safety and Climate Change: The Need for Adaptation. Climate Change and Mitigation International Course. Wagenighen University/Makerere University Joint Course. Virtual Meeting; March 2, 2023
- Keynote Address: Opportunities for modernizing post-harvest management for food and nutritional security in Uganda” NARO-Makerere Conference, March 14-16, 2023. Munyonyo Resort Hotel, Kampala
- Keynote Address: The role of Value Addition in Nutrition and Food Security" Multi-sectoral farmers' dialogue on promoting value addition for sustainable family economic security. St. Pope John Paul II Pastoral Centre, Kasana - Luweero Diocese. March 28-2 April, 2023.
- Food safety as a human right concern in Uganda. The 2<sup>nd</sup> Conference on the Human Right to Adequate Food in Uganda. 18<sup>th</sup> – 19<sup>th</sup> April 2023, CTF Auditorium, Makerere University Kampala.
- November 13-15, 2022. Aflatoxin prevalence and occurrence in Uganda: Current Findings. USAID Feed the Future-NARO Meeting, Ridar Hotel, Seeta-Mukono.

- Food Safety and Climate Change Adaptation. Climate Change and Mitigation International Course. Wageningen University/Makerere University Joint Course. Virtual Meeting; February 10 – March 3, 2022
- Nov 15-17, 2021. Sustainable Urban Water Security, Hygiene and Sanitation: A case for Kampala Capital City, Uganda. International Symposium “Towards Urban Sustainability” University of Tennessee-USA
- Sept 20, 2021. Mycotoxins in food. Training of East African Grain Council Participants in Food Safety Management, Eureka Hotel, Ntinda, Kampala
- July 12, 2021. Overview of aflatoxin research in Uganda. Paper presented during the Inception meeting of the Project on development of aflatoxin rapid detection technology, Gulu University/Makerere University, supported by Min. of Science & Technology
- Food Safety and Climate Change Adaptation. Climate Change and Mitigation International Course. Wageningen University/Makerere University Joint Course. Virtual Meeting; January 31 – February 10, 2021
- Food Safety and Climate Change Adaptation. Climate Change and Mitigation International Course. Wageningen University/Makerere University Joint Course. ESELA Hotel, Kampala January 28 – February 7, 2019
- Aflatoxins in Uganda: A Real Threat to Food Security and Health. Presentation during the Official Launch of Aflatoxin Information Education and Communication (IEC) materials. Serena Hotel, Uganda October 31 2018
- Effect of Aflatoxin contamination on Postharvest Losses of produce. Presented during the EAC Forum on Aflatoxin-Nairobi 15-16 August 2018
- Food safety and Climate Change Effects. Climate Change and Mitigation International Course. Wageningen University/Makerere University Joint Course. ESELA Hotel, Kampala April 16 – 27, 2018.
- Mycotoxins: Their implications in Nutrition and Agriculture. Uganda Multi-Sectoral Food Security and Nutrition World Bank Project. Eureka Hotel, Kampala. April 16-18, 2018.
- FANRPAN Uganda Node Priority areas and on-going initiatives (flagship) and five key areas for implementation 2017. 1<sup>st</sup> All Africa Postharvest Congress, Safari Park Hotel, Nairobi, Kenya March 25 – 31, 2017.
- The Need for training of frontline health workers in Uganda, Kenya and Tanzania. ECSA Regional Validation workshop for the Nutrition Pre- service model curriculum, Dar Es Salaam, Tanzania. 21st to 23rd March 2017
- Overview of Food Safety situation in Uganda. IUFoST Food Safety Symposium, Nairobi, Kenya 19<sup>th</sup> January 2017.
- The status of cereal quality in Uganda. Regional Workshop on Harmonization of Revised East African Staple Food Standards. Feb 29 – March 4, 2016. Leisure Lodge resort, Diani Beach, Mombasa, Kenya.
- Aflatoxin Country Situation Analysis. 1<sup>st</sup> African Symposium on Mycotoxicology. Livingstone, Zambia May 26 – 29, 2015
- The need for Quality Improvement of grains during storage. Aflatoxin challenge in Eastern and Southern Africa, Lilongwe, Malawi 11-13, March 2014
- Aflatoxin status in Uganda: the need for immediate control. 2<sup>nd</sup> Short Training Initiative “Intensive Training on Mycotoxin Analysis University of Gent, Belgium. August 28 – September 11, 2013.
- Stabilization of peanut butter and aflatoxin control using local and commercial stabilizers. IFT Annual Meeting and expo, Las Vegas, USA, June 2012.
- Rapid methods for testing aflatoxins. Workshop on Peanut Processing to Reduce Aflatoxins. Accra, Ghana, Jan 2012

- The Status of aflatoxin contamination of foodstuff in Uganda Africa College Food Security, Health and Impact Knowledge Brokering Conference, 22<sup>nd</sup> -24<sup>th</sup> June and the Mycotoxin workshop, 25th June 2011.
- Efforts to reduce aflatoxin contamination of groundnuts in Uganda: role played by the Peanut Collaborative Research Support Programme (Peanut CRSP). 10<sup>th</sup> African Crop Science Society Conference, 9 – 13 October, 2011, Maputo, Mozambique.
- Farmers' knowledge and the need to control aflatoxin contamination of groundnuts in Uganda. MYCORED AFRICA Conference, April 4 – 6, 2011. Cape Town, South Africa.
- Quality Control and Assurance in the Faculty of Agriculture, Makerere University: A Case for Undergraduate Training. Fourth International Conference on Quality Assurance in Higher Education in Africa and Capacity Building (Training) Workshop (ICQAHEA-2010), 5 – 9 October, 2010. Bamako, Mali
- Quality of dried foods of Uganda: A case for moulds and mycotoxin contamination. Paper presented to the Parliamentary Committee on Agriculture, Kampala, Uganda. June 23, 2010.
- Fungal and aflatoxin contamination of processed peanut-based products of Uganda. Presented during the International Society for Mycotoxicologists Meeting. Tulln/Vienna, Austria. Sept. 8 – 11, 2009.
- Biotechnology in Food Science and Food Safety. Paper presented during the Science Foundation for Livelihood Workshop on Biotechnology, National Laboratories Research, Kawanda, July 7 – 9, 2009.
- Food safety considerations for Genetically Modified Products. Paper presented during the Regional Biosafety Course, Continuing Agric. Education Centre (CAEC), Uganda. June 15 – 18, 2009.
- Prospects for peanut collaboration in Africa. International Peanut Conference, Kasertsart University, Bangkok, Thailand. January 9 – 12, 2005.

### **Service to the University and Community**

- Member, UNCST-SGCI Grant Proposal Evaluation Committee. 2023 to date
- Country Coordinator, Food, Agriculture and Natural Resources Policy Analysis Network (FANRPAN) Uganda Node, 2011 to date.
- Chair, Technical Working Group on Aflatoxin Control in Uganda, June 2014 to date
- Member, Uganda Mycotoxin Management Steering Committee of the Min of Agriculture Animal Industry & Fisheries June 2016-to date.
- Chairperson, Uganda National Bureau of Standards (UNBS) Technical Committee on Cereal and Cereal Products Standards.
- Member, Uganda National Bureau of Standards (UNBS) Technical Committee on Development of Standards in the Field of Food and Agriculture (Technical Committee 2). June 2006 to date.
- Member, National Technical Working Committee (UNBS/TC2/NTWG1) on Global GAP, November, 2010 to date.
- Chairperson of the team from Ministry of Agriculture, Animal Industry and Fisheries and Ministry of Health that during the period 2006 - 2007, produced over 6000 brochures and 6000 posters (Information Education Materials) giving information on aflatoxins and their management to farmers, traders and extension officers, in seven languages (Luganda, Ateso, Runyankore-Rukiga, Runyoro-Rutooro, Luo, Kup Sabin and English).
- Member, Food Control Group for Fortified Food Products in Uganda: Ministry of Health.
- Member, University Ceremonies Committee, representing Faculty of Agriculture and Forestry. October 1996 to April, 1999.
- Member, Mature Age Entry Exams Committee, representing the Dept. of Food Science and Technology. October 1996 to date.

- Patron, Makerere University Food Science and Technology Students' Association (MUFOSTSA), March 1996 to August 2002
- Patron, St. Augustine Student Centre, Makerere University Agricultural Research Institute Kabanyolo (MUARIK). August 1997 to October 2004.
- Treasurer, African Student Union, University of Florida, June 1994 - June 1995.
- Chairman, Makerere University Agricultural Research Institute Kabanyolo L.C. 1 1996 – 2004.

### **Membership to Professional Bodies**

1. Uganda Home Economics Association
2. International Society for Mycotoxicologists
3. African Society for Mycotoxicologists
4. Uganda Nutrition Society

### **Summary**

Archileo Natigo Kaaya is a Professor in the Department of Food Technology & Nutrition, Makerere University-Kampala. He holds a PhD in Food Science and Technology from Virginia Tech, USA/Makerere University; MSc in Postharvest Technology from Univ. of Florida, USA, a BSc in Agriculture from Makerere University, a Postgraduate Diploma in Education (Makerere Univ) and a Postgraduate Diploma in Food Security (IAO, Italy). For over 30 years, he has been teaching and conducting research as well as community engagement within and outside the country. He was Head Food Technology and Nutrition Department (2011-2019) and Deputy Dean, Faculty of Agriculture (2009-2011) Makerere University. He has researched and written adequately in Postharvest Technology, Food Safety and Nutrition where he has published over 80 papers in refereed scientific journals and book chapters. He has supervised to completion 9 PhD and 30 MSc students. He has been a PI of over 50 international research projects that have generated scientific data used in the national development and presented in over 100 international meetings. In 2023, he was the National Winner, Annual Agriculture Award (2022/23); Uganda Food Systems Category while in 2018 he was the Winner, African Union Agent of Change for Aflatoxin Control in Africa in the category of Research and Technology. In 2016, he was appointed Fellow of the Uganda National Academy of Sciences. Last but not least, Prof. Kaaya chairs several Committees in the Country, belongs to 4 active Professional Bodies and he is the former Head of Laity (2008-2023), Ggayaza Catholic Parish, Wakiso District.