

Professor	
<p>Archileo Kaaya Department of Food Technology & Nutrition, School of Food technology Nutrition & Bioengineering, College of Agricultural and Environmental Sciences, Makerere University P.O. Box 7062, Kampala, Uganda Tel: +256 414--533865 Mobile: +256 772440046 Email: ankaaya@caes.mak.ac.ug Alternative Email kaaya.archileo48@gmail.com Skype:kaaya.archileo</p>	
Professional Training and Experience	<p>2005: PhD (Food Science and Technology), Makerere University, Kampala/Virginia State University, USA 1995: M.Sc University of Florida, USA. Major: Postharvest Technology & Human Nutrition 1988 B.Sc. Agriculture (Crop Option), Makerere University, Kampala, Uganda 1991 Postgraduate Diploma in Education, Makerere University Kampala-Uganda. Major: Biology and Agriculture. 2000. Postgraduate Diploma in Food Security. Istituto Agronomico Per'oltremare (IAO), Firenze, Italy.</p>
Research Interests/Expertise	Postharvest technology, food safety (mainly mycotoxin control) and nutrition
Publications	<p>Nahaloma A, P.O. Iversen, P.M. Rukundo, A. Kaaya, J. Kikafunda, W. B. Eide, M. Marais, E. Wamala and M. Kabahenda. 2018. Realization of the right to adequate food and the nutritional status of land evictees: a case for mothers/caregivers and their children in rural Central Uganda. <i>BMC International Health and Human Rights</i>. doi.org/10.1186/s12914-018-0162-6</p> <p>Muhoozi Grace K. M., Prudence Atukunda, Lien M. Diep, Robert Mwadime, Archileo N. Kaaya, Anne B. Skaare, Tiril Willumsen, Ane C. Westerberg and Per O. Iversen. 2018. Nutrition, hygiene, and stimulation education to improve growth, cognitive, language, and motor development among infants in Uganda: A cluster-randomized trial. <i>Maternal & Child Nutrition DOI: 10.1111/mcn.12527</i>.</p> <p>Muggaga C, Ongeng, D, Mugonola B, Okello-Uma I, Kaaya N.A and Taylor D. 2017. Influence of Sociocultural Practices on Food and Nutrition Security in Karamoja Subregion of Uganda. <i>Ecology of Food and Nutrition</i>, Vol. 56, No. 5., 424-447. Doi: 10.1080/03670244.2017.1366318.</p> <p>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. <i>Food and Nutrition Bulletin</i>, doi.org/10.1177/0379572117731666</p> <p>Bukusuba, John, Archileo N. Kaaya and Abel Atukwase. 2017.</p>

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

Kigozi, J. N. Banadda, Y. Byaruhanga, **A. Kaaya** and F. Lule. 2016. Sorghum ice cream cone texture; correlations between instrumental and sensory analysis. *Journal of Advances in Food Science & Technology* 3(3): 134-145, 2016.

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

Osuret Jimmy, Geoffrey Musinguzi, Trasier 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

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

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

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

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

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

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

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.

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.; Rambelason, 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)

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.

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.

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.

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

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

A. Namulema, 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.

Kaaya N. A, P. M. T. Hansen and S. Biribonwa. 1998. Small-scale production and fortification of soymilk with calcium. *MUARIK Bulletin*. Vol. 1. pp. 147 - 152.

Kaaya N. A, A. Namutebi and M. Ongol. Effects of blending and heat treatment on the quality parameters of honey. *MUARIK) Bulletin*. Vol. 1. 1998. pp. 141 - 145.

Kaaya N. A, J. K. Brecht, S. J. Locascio, S. A. Sargent and M. Alligood.

	1995. Bruising Susceptibility of Green Bell Pepper Fruit Varies with N level and Planting Time. HortScience 30(4) p. 786.
Innovations Developed and Awards Won	2009. Uganda National Bureau of Standards Award: Best Scientist in generating aflatoxin data in Uganda 2016. Partnership for Aflatoxin Control in Africa (PACA) Champions in Aflatoxin Mitigation; Research and Technology Award. Second run-up. 2016. Fellow, Uganda National Academy of Sciences (UNAS) 2018. Winner, African Union Agent of Change for Aflatoxin Control in Research and Technology.
Research Projects/Consultancies	<p>August 2018. Consultant: Evaluation of candidates for the African Food Safety Laboratory Centres of Excellence. InterAfrica Bureau for Animal Resources, Nairobi-Kenya</p> <p>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.</p> <p>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.</p> <p>2017. PI on a study “Development and evaluation of simplified dietary assessment tools in rural/semi-rural women in Uganda”. Funded by Global Alliance for Improved Nutrition (GAIN)</p> <p>2017. World Bank Short Term Consultant, worked with the staff of International Finance Corporation (IFC) to come up with strategies to manage aflatoxin contamination of maize-based products processed by Africa Improved Foods (AIF), Kigali, Rwanda</p> <p>2016. Lead Consultant: Cocoa Quality processors Training. Funded by OLAM Cocoa Company Ltd.</p> <p>2015: Principle Investigator (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)</p> <p>2014-2015. Lead Consultant: Determination of postharvest losses of maize, beans and rice in Apac and Dokolo districts of Uganda. Funded</p>

by Sasakawa Global 2000.

2015-2017: Lead Consultant, Review of the Draft 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

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, United States Agency for International Development (USAID), Contract No. AID-617-C-13-00004

2013-2016: Principle Investigator (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

2013-2014: Lead Consultant: Development of Quality Management Systems Manual for Management of Aflatoxins in Groundnuts in Eastern Uganda. Funded by Vredeseilanden (VECO) East Africa (Uganda Programme).

2004 – 2012: Country Coordinator: PEANUT CRSP USAID funded

	<p>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.</p> <p>2009 – 2011: Collaborator: Production of High Value Peanut Product from Aflatoxin Free Groundnuts. Funded by Carnegie Foundation.</p> <p>2008 – 2010: PI: Determination of the Nutritional Composition of Local and Improved Cowpea varieties of Uganda. Funded by SIDA-SAREC.</p> <p>2009 – 2011: PI: Improving the quality of maize flour through reduction of aflatoxin levels. Funded by NORAD</p> <p>2006 – 2008: PI: Assessing the status and management of mould and aflatoxin contamination of cassava and sweet potato products in Uganda. Funded by Makerere University I@Mak.com Programme</p> <p>2007 – 2008: PI: Improving the quality of MUARIK processed animal feeds through reduction of aflatoxin contamination. Funded by NORAD.</p> <p>2000 – 2004: PI: Moulds and Aflatoxin incidence in maize from different ecological zones of Uganda. (IPM CRSP USAID/Makerere University funded Project). Three papers published so far in refereed journals</p> <p>2003 – 2004: PI: Improvement of Grain Quality for the Export Market in Uganda. Funded by IPM CRSP USAID Project.</p> <p>2003: Collaborator: Development of Mechanisms for Sustainable Production and Utilisation of Indigenous Vegetables in Uganda. A website report available.</p> <p>2002: PI: Determination of Dithiocarbamate Residues in Tomatoes Sold in Ugandan Markets. (IPM CRSP USAID funded Project). One paper published in African Journal of Nutrition, Agriculture and Development(available online www.ajfand.net)</p>
<p>Professional Membership and Activities</p>	<ol style="list-style-type: none"> 1. International Society for Mycotoxicologists 2. African Society for Mycotoxicologists 3. Nutrition Society of Uganda