

# Complete Curriculum Vitae for Professor Jacob Godfrey Agea, PhD.

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## **A) Brief Resume**



**Professor Jacob Godfrey Agea** was born on the 21<sup>st</sup> September 1976 and raised in a rural countryside in Northern Uganda. He holds a First-Class Bachelor of Science Degree in Forestry (MAK), a Master of Science Degree (Forestry) (MAK), and a PhD in Agriculture (Applied Ethno-botany & Food Security) of Bangor University (formerly University of Wales), United Kingdom (UK).

Professor Agea is a distinguished academic, researcher, leader and manager as attested by the several awards won at both national and international levels.

He is the Uganda Government Representative in the Inter-governmental Science- Policy Platform on Biodiversity & Ecosystem Services (IPBES), at the UN Campus, Platz der Vereitein, Nationen 1, Bonn, 53113, Germany (From October 2023 to date).

Professor Agea is a member of Makerere University Intellectual Property Management

Committee since January 2023 to date. He is also a member of the Appointment & Promotion Committee of the School of Agricultural Sciences (SAS) at the College of Agricultural and Environmental Sciences (CAES), Makerere University Kampala (MAK)

He was formerly the Acting Head (2013–2014) and a Substantive Head (2015–2019) of the Department of Extension and Innovation Studies in the School of Agricultural Sciences, College of Agricultural and Environmental Sciences, Makerere University Kampala (MAK), Uganda. Besides, he was the Director of the Makerere’s Continuing Agricultural Education Centre (CAEC), Kabanyolo (2012–2015).

Professor Agea represented the Academia in the National Task Force coordinated by the Ministry of Agriculture, Animal Industry and Fisheries (MAAIF) that formulated the National Agricultural Extension Strategy to guide, harmonize and implement agricultural extension services to farmers, farmers’ groups, and other actors in agriculture value chains throughout the country. This strategy was in response to government’s commitment to realize an agricultural revolution in the country in line with the National Agriculture Policy (NAP) (2013) and the National Agricultural Extension Policy (NAEP) (2016).

As the Director of the Makerere’s Continuing Agricultural Education Centre, Professor Agea represented the Academia in the National Task Force that created Operation Wealth Creation (OWC). OWC was launched in July 2013 by H.E. the President as an intervention intended to

create a system that facilitates effective national socio-economic transformation with a focus on raising household incomes for poverty eradication and sustainable wealth creation. The aim is to transform subsistence farmers into commercial farmers to end poverty by training rural farmers in modern farming methods and technologies, and also by providing farmers with quality inputs (seeds and fertilizers) to ensure the quality of the final product.

Professor Agea was a Senate Member representing the School of Agricultural Sciences (SAS) in MAK Senate (2015-2019). At Senate he was a member of The Central Ad Hoc Examination Irregularities & Malpractices (Alteration of Marks) Committee. He was also a member of Kizza's Committee (Committee tasked with the duties of reviewing & advising the Makerere University Management on innovative ways to improve Graduate Education at Makerere University).

Professor Agea has also been a member of the Makerere University Ceremonies Committee. The Ceremonies Committee is a committee of the Senate with the role of advice Senate on all ceremonial matters such as the order of proceedings for graduation ceremonies, academic dress, use of the University's armorial bearings, the naming of facilities to honor a person or organization and to identify appropriate nominees for honorary awards in order to strengthen the links between the University and the community, organizations and other institutions.

Professor Agea chaired the Welfare Office of Makerere University Academic Staff association (MUASA) (2015 – 2017) and Academic & Research office of MUASA (2012 – 2014). Formerly, he represented Makerere University Academic Staff Association (MUASA) in Makerere Housing Committee as well as Kabaasa Sub-Committee of the University Council. The Kabaasa Sub-Committee was a special committee that was set up to streamline and harmonize salary scales for the staff at the institution. He was also Committee Member for National Tullow Group Scholarships Scheme Interviews & Award Committee for 4 years.

Professor Agea is a Fellow of UNAS. The UNAS (Uganda National Academy of Sciences) is an independent, non-profit, non-political, and membership-based service organization that was created to provide credible, balanced, and evidence-driven advice to the nation on matters of science and development. UNAS draws its membership from the Fellowship of the Academy who are recognized for their lifetime achievements in the sciences and humanities.

He is a Board Member and Hon. Treasurer of Ecological Trends Alliance, Uganda, since 2016. Ecological Trends Alliance, Uganda works to enhance environmental conservation and knowledge for the benefit of the people and sustainable national development. The Ecological Trends Alliance, Uganda visualizes a 'green' development through knowledge and experience-based options for humanity. They aim at securing global solutions to biodiversity and development challenges through providing biologically diverse and proven alternatives.

Professor Agea is also a Policy Committee Member of Makerere University Agricultural Research Institute Kabanyolo (MUARIK) since 2013. MUARIK was established as a farm in 1953, and upgraded to a fully-fledged Research Institute in 1992 under the then Faculty of Agriculture. MUARIK aims at enhancing the capacity of professionals and practitioners; disseminate knowledge and technologies for sustainable development of agricultural and agro-industrial sectors. It is the Makerere University's interface with the National Agricultural Research System (NARS). It houses the Continuing Agricultural Education Center (CAEC).

Professor Agea is also member of the Governing Board of Aduku Secondary School, Kwania District; a board member of Uganda Agroforestry Development Network (UGADEN); a

member of Poverty & Economic Policy (PEP); a member of African Technology Policy Studies Network (ATPS), Uganda Chapter; a member of The Uganda National Apiculture Development Organization (TUNADO).

In 2008, Professor Agea was appointed as a School Visitation Role Model for the Uganda National Council for Science & Technology (UNCST) Annual National Science Week. The Uganda National Council for Science and Technology was established in 1990 for the purpose of inter alia advising on and coordinating the formulation of national policy on all fields of science and technology, and for assisting in the promotion and development of indigenous science and technology.

Needless to say, Professor Agea is a self-motivating and talented professor of applied agricultural, ethno-sciences and food security driven to inspire students and other citizens or non-citizens to pursue academic, research and personal excellence. He consistently strives to create a challenging and engaging teaching, learning and research environment in which students and others become life-long scholars and researchers. He has exceptional track record of research, consultancy and outreach success with multiple published scientific articles and books. He is a strong advocate for social justice especially for the rural poor; community development; rural food systems; nutrition and food security; individual, family, and community well-being.

With his childhood in a rural countryside; a good comprehension of poverty & sympathy for the rural poor, coupled with his good academic career blended with rich practical experiences. Professor Agea has over years been engaged several research endeavors that has benefited a wide array of people especially the rural poor. He has conducted research on the: Unlocking the commercial potential of *Canarium schweinfurthii* indigenous fruits for improved livelihood in Central Uganda, funded by the Research and Innovations Fund (RIF) at Makerere University in Kampala Uganda, 2019; Development of value-added products from Shea fruit pulp and nuts for commercialization, Uganda National Agricultural Research Organization (NARO) Competitive Grant Scheme (CGS), 2019; Development and commercialization of bee products in Uganda, funded by Uganda National Agricultural Research Organization (NARO) Competitive Grant Scheme (CGS), 2017; Unlocking the potential of indigenous fruit trees for increased food security, nutritional health, cash income, farm diversity and environmental resilience in Uganda, funded by The Regional Universities Forum for Capacity Building in Agriculture (RUFORUM), 2014.

Professor Agea has also conducted research on the prospects of breeding and rearing nsenene grasshoppers for better nutrition and healthy growth of infants and children in Eastern Africa, funded by Bill and Melinda Gates Foundation, 2012; Potential of Balanites (Desert Date) fruits and leaves for improved nutrition in Uganda, Competitive Research Grants from School of Graduate Studies, MAK, 2011; Potential of edible insects in alleviating household food insecurity in Lango Sub-region, northern Uganda, Competitive Research Grants from School of Graduate Studies, MAK, 2011; Enhancing adaptation to climate change effects through optimized production of selected indigenous fruit trees for food and nutrition security in the Lake Victoria Basin, Eastern Africa, funded by Inter-University Council of East Africa, 2011; Development of an improved protocol for processing and handling of honey in Uganda, funded by the Directorate of Research and Graduate Training (DGRT), Makerere University through Carnegie-Makerere Competitive Research Grant, 2009; Nutritional values & innovative approaches in the value addition of *Ruspolia nitidula* ('Nsenene' grasshoppers) for income generation in Uganda, funded by Makerere University School of Graduate Studies through

Norwegian Support to Makerere University grant, 2008; Market survey of *Mondia whytei* (Mulondo) roots in Kampala City (funded by GOU through Makerere University).

He has conducted too research on the Use and potential of wild and semi-wild food plants in alleviating household poverty and food insecurity: A case study of Bunyoro-Kitara Kingdom, Uganda, funded by the Commonwealth Scholarship Commission in the UK and SIDA-SAREC, 2007; Assessment of on-farm conservation strategies, post-harvest handling and nutritional value of the Shea butter (*Vitellaria Paradoxa*) tree & shea products in Uganda (funded by the School of Graduate Studies, Makerere University through Carnegie-Makerere Competitive Research Grant, 2007; Relationship between access to forest & tree resources & livelihoods of the poor and female-headed Households in central Uganda, funded by the Directorate of Research and Graduate Training (DGRT), Makerere University through, Norwegian Support to Makerere University, 2007; Development of a national beekeeping calendar and honeybee pest and disease control methods to promote planning of appropriate interventions to boost production of honey and other hive products, funded by Uganda National Agricultural Research Organization (NARO) Competitive Grant Scheme (CGS), 2006; Can policies save our forests: A socio-economic analysis of Kenya and Uganda's forest management and conservation policies, funded by AFORNET, 2005.

Professor Agea was a lead researcher in the project aimed at the analyzing pit-sawn timber production in natural forests of Uganda, funded by Forest Products Service Department of FAO, 2004; Potential of domesticating indigenous fruit trees for income & household food security in Uganda funded by the Network of Ugandan Researchers and Research Users (NURRU), 2003; Ecology, conservation & agroforestry potential of *Acacia senegal* (L.) Wild in the rangelands of Luwero & Nakasongola, Uganda funded by NORAD, 2002. Professor Agea coordinated DELPHE Project (2010-2014) funded by DFID through British Council aimed at building capacity and institutionalizing Agroforestry & Eco-agriculture in Makerere University and partner institutions. In December, 2023 he has been awarded innovation fund (UGX 484,000,000 only) to upscale the production of *Canarium schweinfurthii* wine (EMPAFU WINE) for commercialization under the RIF4 Scaling and Commercialization grants.

Professor Agea has conducted several consultancies and capacity building workshops including the: Capacity skills need assessment, establishment of occupational standards, and development of sector skills strategies & plan in the agricultural sector in Uganda on behalf of Uganda Skills Development Project (USDP), Ministry of Education and Sports, Uganda 2021-2022; Training consultancy from Ministry of Agriculture, Animal Industry and Fisheries (MAAIF) through the Directorate of Agricultural Extension services under the Agricultural Technology and Agribusiness Advisory Services (ATAAS) project which organized a series of refresher training for technical staff from District Local Governments in the areas of agribusiness development, appropriate post-harvest technology and safe use of agro-chemicals and fertilizer optimization in modern crop husbandry among others, 2017-2019; Review of the extent to which biodiversity conservation has been integrated into national development policies and plans in Uganda, for on behalf of Uganda Wildlife Authority (UWA), 2012; Impact evaluation of Uganda second environment management and capacity building project (EMCBPII) on behalf of the World Bank, 2012; A survey of clients attitudes towards services provided by Uganda National Council of Science and Technology (UNCST) on Behalf of UNCST, 2012; Analysis of forest & land resource utilization, management & their impact on livelihoods in Teso & Lango farming systems funded by DFID through National Forest Resources Research Institute (NaFORRI-Uganda), 2004; Development of capacity building, dissemination & replication strategy for a project on removing barriers to the effective management of invasive alien species (IAS) in Africa (under a GEF-CABI) funded initiative by the National Agricultural Research

Organization (NARO), 2004; Baseline survey on biodiversity usage & conservation in relation to the local communities' livelihoods, Dokolo District (financed by YICAFSA through UNDP); Training of trainers (TOT) of YICAFSA on agroforestry & environment protection sponsored by UNDP through Rural Energy & Environmental Conservation Project (REECA) in Dokolo, 2004; Gathering & abstracting gray literature on forest related research work carried out in Uganda sponsored by Global Forest Information System (GFIS), 2003.

Professor Agea spear-headed the development of two curricula for in-service trainings. The first in Agroforestry short course training curriculum for service providers and decision makers in Uganda. ISBN: 9970050508, and the second in Eco-agriculture short course training curriculum for improved livelihood and better environment in Uganda. ISBN: 9970050494. Prof. Agea has been a resource person in several training workshops like in-service training of district service providers in appropriate agroforestry intervention (I@mak project) & development of curriculum through the DACUM process for training NGOs in sustainable agriculture & natural resource management funded by Environmental Alert. He has published a number of books, book chapters, & research articles in peer reviewed journals, & has particular research interest in applied ethnobotany and food security (with emphasis on medicinal & under-utilized wild and semi-wild food plants), ethnozoology (with emphasis on edible wild animals including insects), agroforestry, rural development, policy changes & institutional reforms that impacts on livelihood of the rural poor.

Prof. Agea can be contacted by mobile Tel: +256 (0) 779944348, +256 (0) 392945330 or by email: jacob.agea@ mak.ac.ug; jgagea@gmail.com.

## **B) Extended Resume**

### **1. Personal Information**

#### **1.1 Name, Nationality, Date & Place of Birth**

Professor Jacob Godfrey Agea, Ugandan, 21.09.1976, Apac District.

#### **1.2 Languages Spoken**

Lango (also called Leb-Lango) (mother tongue)  
([https://en.wikipedia.org/wiki/Lango\\_language\\_\(Uganda\)](https://en.wikipedia.org/wiki/Lango_language_(Uganda))), English (fluent in written & spoken)

#### **1.3 Employer**

Makerere University Kampala, Uganda. <http://www.mak.ac.ug/>

#### **1.4 Department, School & the College**

Department of Extension and Innovation Studies (DEIS), School of Agricultural Sciences (SAS), College of Agriculture and Environmental Sciences (CAES).  
<http://caes.mak.ac.ug/staff-profiles/department-of-extension-innovation-studies/>

#### **1.5 Title & Specialization**

Professor and specialist in applied agricultural and ethno-sciences (wild and traditional food and medicinal resources), applied food security, agroforestry, agricultural extension & research methodologies.

#### **1.6 Present Address**

Department of Extension and Innovation Studies (DEIS), School of Agricultural Sciences, College of Agricultural & Environmental Sciences, Makerere University, P. O Box 7062, Kampala, Uganda; Tel: +256(0) 392 945330/ +256 (0) 779944348; Fax: +256 41 533574; E-mail: [jacob.agea@mak.ac.ug](mailto:jacob.agea@mak.ac.ug), [jgagea@gmail.com](mailto:jgagea@gmail.com), [j.agea@yahoo.com](mailto:j.agea@yahoo.com)

### **2. Academic Growth and Professional Qualifications**

#### **2.1 Academic Growth (Certificated)**

1. PhD (Agriculture – Applied Ethno-botany & Food Security), Bangor University (formerly University of Wales), United Kingdom (UK); UK. September 2007 – August 2010.
2. M.Sc. Forestry, by coursework & dissertation, Makerere University Kampala (MAK), Uganda, October 2001 – September 2004.
3. B.Sc. Forestry (First Class Hons.), MAK, Uganda, September 1997 – June 2001.
4. "A" Level Certificate, St. Mathias Kalemba S.S. Nazigo, Kayunga Uganda, February 1995 – April 1997.
5. "O" Level Certificate, Aduku SS, formerly Apac (now Kwania District), Uganda, February 1991 – December 1994.
6. PLE Certificate, Canon Lawrence Demonstration School, Lira Uganda, October 1990.

## **2.2 Professional Qualifications (Certificated)**

1. Certificate of Professional Leadership and Management in Education, The University of Newcastle, Australia. October 2023.
2. Certificate of Open Innovation (Open innovation is a strategy that suggests the best ideas, solutions, and people necessary to solve your organization's difficult problems may come from outside your company entirely), Online Harvard Course, Cambridge, Massachusetts, USA. December 2022.
3. Certificate of Professional Public Sector Leadership, Cornell University, Ithaca, USA. September, 2020.
4. Certificate of Natural Resource Policy and Planning, Massey University, Palmerston North, New Zealand, July 2014.
5. Certificate of PhD Supervision and Mentorship, School of Graduate Studies, Makerere University, Kampala, January 2011.
6. Certificate of Quality through safety, The Institution of Occupation Safety and Health in association with Compass Group, UK & Ireland, June 2009.
7. Certificate of Quality through Hygiene, The Institution of Occupation Safety and Health in association with Compass Group, UK & Ireland, June 2009.
8. Certificate of Doctoral Research Methodology- Qualitative & Quantitative Approach, Makerere University, Kampala, July 2006.
9. Certificate of Scientific Writing, The African Forest Research Network (AFORNET), Eastern & North Eastern Node, KEFRI, Kenya, November 2006.
10. Certificate of Research Management, SRA International and Makerere University, Hotel Equatorial, Uganda, March 2005.
11. Certificate of Basic Principles of Decentralization, Uganda Management Institute, July 2004.
12. Certificate of Participatory Action Oriented Research for Poverty Eradication, Network of Uganda Researchers and Research Users, August 2003.
13. Certificate of Writing Scientific Research Proposal for Funding, International Foundation for Science, May 2003.
14. Certificate of Leadership and Enlightenment. Institute of Advanced Leadership- (International), Kampala Uganda, April 2003.
15. Certificate of Basic Pedagogic Skills for Teachers of Higher Institutions of Learning. School of Education, Makerere University, Kampala, February 2003.
16. Certificate of Capacity Building and Policy Development in E-learning in Higher Education, Makerere University, Kampala, September 2002.
17. Certificate of Basic Information & Communication Technology. End User Training Project (EUTP), Makerere University, Kampala, April 2002.
18. Certificate of Basic Carpentry and Joinery (Primary wood industry), Nyabyeya Forestry College, Masindi, Uganda. July 2000.
19. Certificate in MS-DOS and Windows 95, MS-Word 97, Excel, Mini-Tab and SPSS, Milleni Consult Training Centre, Makerere University, Kampala. August 1999.

20. Certificate in Harvesting and Utilisation of Forest Plantations, Nyabyeya Forestry College, Masindi, Uganda. July 1999.

### **2.3 Other Qualifications (Non-certificated)**

1. Received training in Approaches to Social Research for Resource Managers, Thoday Building, University of Wales, Bangor, 2007-2008. The training covered introduction to social research for NR managers, developing the framework (research design) for participatory and non-participatory social research- objectives, questions, hypotheses and sampling approaches; Participatory approaches to learning and mixed methods data collection techniques; practicing methods and matching question to method; preparation of research materials; data entry and organization and management using SPSS and Excel, Understanding data- patterns, descriptive statistics.
2. Received transferable skills training in Presenting and Communicating Information, Adeilad Deiniol, University of Wales, Bangor, November 2008. The training covered: Introduction to PowerPoint 2007 and the ribbon interface; slide formats and designs; working with images and media; slide animation, custom animation and transitions; setting up a manual/ automatic slideshow; printing handouts, audience notes and speaker notes; packing a show and PowerPoint viewer to CD/DVD memory stick; use of presentation equipment such as data projectors, video, OHP; assessing the audience and optimizing the delivery method; oral presentation techniques; evaluation of presentations; practice and feedback regarding PowerPoint and delivery.
3. Received transferable skills training in I.T. Communication Skills, Adeilad Deiniol University of Wales, Bangor, November 2008. The training covered: Introduction to Adobe Photoshop (cameras and digital imaging, essential Photoshop image manipulation techniques, how to use layers and selections effectively, how to heal, clone and patch damaged pictures), introduction to Adobe Dreamweaver (simple HTML Programming, web design strategy, website hosting, how to create frames and layout table based websites), introduction to Office Publisher (understand layout and design, how to use Desktop Publishing techniques to create spreads and threaded stories, how to quickly produce magazine quality publications, how to create and publish to the print press or to PDF).
4. Received training in Personal Mastery and Soft Skills for Transforming Teaching and Learning at Makerere University. Imperial Botanical Beach Hotel, Entebbe Uganda and Ridar Hotel, Mukono, Uganda, 2006 - 2007. Sponsored by Regional Universities Forum for Capacity Building in Agriculture (RUFORUM). The trainings which consisted of a series of three learning workshops, was aimed at building more capacity to up-scale personal mastery and soft skills within Makerere University.

### **3. Professional Leadership and Responsibilities**

1. Uganda Government Representative in the Intergovernmental Science- Policy Platform on Biodiversity and Ecosystem Services (IPBES), The UN Campus, Platz der Vereinten Nationen 1, Bonn, 53113, Germany (From October 2023).
2. Member of the Makerere University Intellectual Property Management Committee (From January 2023).

3. Senate Representative, School of Agricultural Sciences' to Makerere University Senate (2015-2019).
4. Senate member of The University Central Ad Hoc Examination Irregularities & Malpractices (Alteration of Marks) Committee (2016-2018).
5. Senate Member of the Kizza's Committee (Committee tasked with the duties of reviewing & advising the University Senate and Makerere University Management on innovative ways to improve Graduate Education at Makerere University) (2016-2018).
6. Representative of College of Agriculture and Environmental Sciences (CAES) to the University Ceremonies Committee (2018-2019).
7. Representative of College of Agriculture and Environmental Sciences (CAES) on the Makerere University Revenue Services Unit (MURSU) Team (2014-2019).
8. Acting Head, Department of Extension and Innovation Studies in the School of Agricultural Sciences, College of Agriculture and Environmental Sciences, Makerere University Kampala (2013–2014).
9. Head, Department of Extension and Innovation Studies in the School of Agricultural Sciences, College of Agriculture and Environmental Sciences, Makerere University Kampala (2015- 2019).
10. Director- Makerere University's Continuing Agricultural Education Center (CAEC), Kabanyolo (2013 – 2016). The center was conceived in 1993 and in February 2002, Makerere University Council institutionalized CAEC as a University unit. Its vision is “to be the leading center providing client-responsive, training and services for development of agriculture and agro-industry”.
11. Coordinated and provided team leadership for In-Service Training of District Service Providers in Appropriate Agroforestry Intervention (funded by Initiative at Makerere Committee- I@Mak.Com), June 2005-2008. Took over the leadership in 2005 after Dr Sara Namirembe resigned her position from the University for private sector. This project was aimed at building the capacity of extension staff working in agroforestry-related areas (forestry, environment, agriculture, animal health and production, fisheries, gender and community development) in current agroforestry knowledge to address resource management issues.

## **4. Professional Experience**

### **4.1 Teaching Experiences**

1. Professor, Department of Extension and Innovation Studies, School of Agricultural Sciences, College of Agriculture and Environmental Sciences, Makerere University (From October 2012 to date). Courses taught are – Research Design & Instrumentation (PhD Class); Scientific Writing and Publishing (PhD Class) Research Methods (MSc and Undergraduate), Agroforestry Systems (MSc Forestry & Agroforestry), Forestry & Food Security (Undergraduate), Principles of Agroforestry (Undergraduate), Forestry Ecosystems and Livelihoods (Undergraduate), Training & Extension Methods (Undergraduate).
2. Assistant Lecturer in the Department of Community Forestry & Extension, Faculty of Forestry & Nature Conservation, Makerere University (August 2005 to September

2010). Courses taught – Ethnobotany, Social Research Methods, Forestry & Food Security, Forestry Ecosystems and Livelihoods, Principles of Agroforestry and Training & Extension Methods.

3. Teaching Assistant in the Department of Community Forestry & Extension, Faculty of Forestry & Nature Conservation, Makerere University (October 2003 to August 2005). Courses taught – Ethno-botany, Social Research Methods, Forestry & Food Security, Forestry and Rural Development, and Principles of Agroforestry.
4. Part-time Lecturer in the Department of Community Forestry & Extension, Faculty of Forestry & Nature Conservation, Makerere University (October 2001 to September 2003). Ethnobotany, Social Research Methods, Forestry & Food Security, Forestry and Rural Development, and Agroforestry.
5. Part-time Lecturer under the Bachelor of Science in Agricultural Land Use and Management (B. Sc. LUM) Program, Department of Soil Science, Faculty of Agriculture, Makerere University (2005-2007). Course taught- Management of common pool resources.
6. Part-time Lecturer in the Department of Agricultural Extension/Education, Faculty of Agriculture, Makerere University (2004-2007). Course taught - Agroforestry.
7. Part-time Lecturer, Bachelor of Science in Ethnobotany program, and Bachelor of Conservation Biology program, Department of Botany, Faculty of Science, Makerere University (2004 -2007). Courses taught: Valuation of resources and bio-trade; Plant resources analysis & economic development.
8. Part-time Lecturer, Bachelor of Arts in Environmental Management, Department of Geography, Faculty of Arts, Makerere University (2006-2007). Course taught - Environment Extension and outreach.

## **4.2 Research Experiences (selected)**

### **4.2.1 Ongoing Research Endeavors**

1. Agroforestry Paradox - Climate Clever Coffee (APCCO), funded by Danida Fellowship Centre (DFC) through the Ministry of Foreign Affairs of Denmark (MFA), October 2023 (DKK 10,012,385 which is approx. USD 1,469,437.65). Grant period (01 October 2023 – 30 September 2028), Grant DFC file no. 23-06-KU. The project is about Ugandan coffee, the people who cultivate it and the environments in which it grows. Though coffee agroforestry systems (AFS) offer many benefits to producers, the major share of global coffee production is from monocrop systems, which place production and livelihoods in jeopardy in the face of climate change. In this project, we are trying to integrate new knowledge from multiple perspectives and disciplines concerning agroforestry (AF), including crop-tree-climate interactions and human ecological dimensions of AF, leading to understanding of this paradox. We are applying a digital modelling tool to develop hyper-localized models of AF systems and their outputs, develop scenario-based AF decision support, and co-design new business models for producers, traders, and roasters leading to market-driven, inclusive coffee value chains based on climate-smart AF. We are also examining the agricultural transformations among Ugandan coffee farmers, and channel our core findings into a scalable, scenario-building methodology coupled with economically feasible business models, applicable to smallholder coffee farming across the tropics. We are anchoring this project at farm-

level but building knowledge with and for the entire coffee value chain and its stakeholders to benefit from climate-smart agroforestry.

2. Upscaling the production of *Canarium schweinfurthii* wine (EMPAFU Wine) for commercialization (UGX 484,000,000 only ~ USD 126,863.51). Our investigation show that a mature tree produces on average yields 350kg of Empafu fruits per annum. Currently, a kg of fruits goes at 2,000 shillings earning farmer up to 700,000/= per tree. Our investigation also shows that 100kg of fruits produces 100 litres of wine (Approx. 130 bottles of 750ml). Currently we sell 750ml bottle of EMPAFU Red Sweet Wine at UGX 30,000 x 130 bottles fetches UGX 3,900,000 only. Therefore, each Empafu mature tree generates UGX 13,650,000 only {UGX 3,900,000 x (350/100 kg)}. Assuming we have 1000 mature trees harvested x UGX 13,650,000 would fetch us UGX 13,650,000,000 (~USD 3,577,865.65) annually.
3. Study of Lango cultures and traditions in Uganda. The Lango are one of the largest of the non-Bantu ethnic groups in Uganda. They are often classified together with their western neighbors, the Acholi, although they have long regarded themselves as being distinct from them. In the past, the Lango were generally regarded as the residents of a rural hinterland and as people whose activities had little effect on the nation as a whole, but, since Uganda's independence, the Lango have become integrated into national political life.
4. Savannah woodland, and central and local forest reserves in Lango sub-regions: Their values for traditional herbal medicine. Herbal medicine has its origins in Lango ancient cultures. It involves the medicinal use of plants to treat disease and enhance general health and wellbeing. Many plants are believed to have medicinal properties, and certain individuals have a knowledge of these plants. With the increasing popularity of spirit-possession rituals, however, curers have made less use of plants and have come to rely more heavily on the belief that illness is caused by spirit possession. The decline in the use of medicinal plants is also related to the declining popularity of the traditional rituals performed by men. The men who performed these rituals were also experts in the use of medicinal plants, and, as interest in the rituals waned, fewer men acquired expertise in the use of medicinal plants. Many traditional medicines have also been replaced by Western medicines, which were widely available to the Lango from the 1940s until the early 1970s. Since the 1970s, Uganda's political unrest has led to a deterioration of the government medical system, and there some indication that the use of traditional medicines is being revived. There is particular concern over the AIDS epidemic in Uganda, and there has been a renewed use of magical cures and folk medicines throughout Lango territory.
5. Assessment of the perceptions, attitudes and awareness of Lira City dwellers towards sustainable urban environmental waste management, Northern Uganda. Lira City Council since 2023 has introduced the polluter pay policy to manage urban garbage. The city generates between 100 to 120 tons of waste per day, especially from households. Under the polluter pays, individuals, institutions, and businesses will bear the cost of eliminating the waste garbage generated from their residences and facilities.
6. Assessment of training needs and challenges of mainstreaming electronic media production for extension services in Uganda. The advancement in electronic media is increasingly liberalizing the dissemination of agricultural information, such that farmers can now on their own access information before ever they are communicated to them by extension agents. Therefore, for extension to maintain its relevance and functions, extension personnel must acquire the skills/abilities necessary to maintain/control what

(contents) farmers are sourcing from the media. In the light of this, the study is aimed at to assessing the training needs and challenges of mainstreaming electronic media production for extension services in Uganda. Specifically it is aim at examining among other specifics, the electronic media production capabilities of extension personnel; the level of electronic media production skills taught in extension training; training needs and challenges of mainstreaming electronic media production for extension services in Uganda.

#### **4.2.2 Past Research Experiences**

Professor Agea has undertaken a number of cutting-edge research supported by many research grants.

1. Unlocking the commercial potential of *Canarium schweinfurthii* (empafu) indigenous fruits for improved livelihood in Central Uganda, funded by the Research and Innovations Fund (RIF) at Makerere University in Kampala Uganda, 2019 (UGX 95,000,000 Only). Empafu fruits are often eaten raw as snack. Some people eat it after boiling in water and then baking between leaves in the embers. The fruits are occasionally sold in local markets. This projected formulated high value products (wine and jam) from the fruit pulp of *Canarium schweinfurthii*; and assessed consumer market acceptability for developed products.
2. Development of value-added products from Shea fruit pulp and nuts for commercialization, Uganda National Agricultural Research Organization (NARO) Competitive Grant Scheme (CGS), 2019 (UGX 305,000,000 Only). The shea tree grows extensively in the northern part of Uganda, which is known to be one of the poorest areas in the country. To help reduce poverty and enhance food security in this area, attempts were made to add value to shea fruit pulp and shea butter. Jam and wine were developed and produced from shea fruit pulp and these were analyzed for their physico-chemical constituents. Shea butter-based body lotion, pomade and soaps were developed and assessed for their quality and stability.
3. Development and commercialization of bee products in Uganda, funded by Uganda National Agricultural Research Organization (NARO) Competitive Grant Scheme (CGS), 2017 (UGX 320,000,000 Only). The overall goal of the project was to increase beekeepers' income through improved processing and packaging of qualified honey, propolis, venom and beeswax. This project was formulated and implemented by beneficiaries following participatory community needs assessment exercises. During exercises, two research questions were investigated; what are available existing skills for developing and improving processing and packaging of qualified honey, propolis, venom and beeswax? What are skills needed and that should be put into action for quick development and improvement of processing and packaging of qualified honey, propolis, venom and beeswax for improved income earning?
4. Unlocking the potential of indigenous fruit trees for increased food security, nutritional health, cash income, farm diversity and environmental resilience in Uganda, funded by The Regional Universities Forum for Capacity Building in Agriculture (RUFORUM), 2014 (USD 60,000 Only). The project explored existing indigenous fruit trees (IFTs) in selected semi-arid zones of Uganda, their domestic consumption and market potentials; determined the survivability and vigor of the selected high value IFTs through nursery and field trials; evaluated nutritional properties of selected high value indigenous fruits, and developed valued-added products from the selected high value indigenous fruits.

Two MSc students (Ruth Esther Napio and Hudson Ogwali) were trained and mentored under this project.

5. Development of innovative tools and technologies for increased beekeeping productivity in Uganda, funded by Uganda National Agricultural Research Organization (NARO) Competitive Grant Scheme (CGS), 2014 (UGX 287,900,000 Only). The goal of the project was to develop innovative tools and technologies for increased beekeeping productivity in Uganda. In this project, we evaluated the productive efficiency of common types of beehives used in Uganda for increased productivity; we characterized and compared honeys from the different agro-ecological zones of Uganda; we designed simple and readily acceptable protocol for traceability of honey from Uganda; we developed and recommended protocols for value addition and quality assurance of honey from Uganda, and we synthesized packaged and disseminated information on the innovative tools and technologies for promoting apiculture in Uganda.
6. Prospects of Breeding and Rearing Nsenene Grasshoppers for Better Nutrition and Healthy Growth of Infants and Children in Eastern Africa (Funded by Bill and Melinda Gates Foundation, 2012-2014) (USD 251,000 Only). Principle Investigator. Our idea is that breeding and rearing of Nsenene grasshoppers could easily improve nutrition and healthy growth of infants and children in Eastern Africa first as direct food source and secondly as a major protein source for making weaning foods. Insects are unlikely to make major contributions to the world's food supply in the near term, but the idea that insects might help overcome global hunger and malnutrition is not as farfetched as it might first seem.
7. Enhancing adaptation to climate change effects through optimized production of selected indigenous fruit trees for food and nutrition security in the Lake Victoria Basin, Eastern Africa (funded by Inter-University Council of East Africa, 2011 - 2014) (USD 700,000 Only). The project was aimed at identifying preferred IFTs and how they are being incorporated in the available fruit tree agroforestry technologies under changing climates within the LVB; developing appropriate propagation techniques for selected IFTs; appraising on-farm performance of selected IFTs; evaluating nutritional values of fruits of preferred IFTs; assessing the farmers' traditional knowledge, perceptions on the contribution of IFTs to climate change adaptation as well as the socio-economic factors influencing adoption level of fruit tree agroforestry technologies; and lastly disseminating information on promising IFTs agroforestry technologies to the technology uptake pathways (TUPs) within the LVB regions in Uganda and Rwanda. Two PhD students (Francis Omujal and Celestine Bigirimana) and one MSc student was trained and mentored under this project.
8. Potential of edible insects in alleviating household food insecurity in Lango Sub-region, Northern Uganda (funded through the competitive SIDA-SAREC research grant and administered by School of Graduate Studies (now DGRT) in 2011 (USD 63,400 Only).
9. Potential of Balanites (Desert Date) fruits and leaves for improved nutrition in Uganda (funded through the competitive SIDA-SAREC research grant and administered by School of Graduate Studies (now DGRT) in 2011 (USD 60,000 Only).
10. Development of an improved protocol for processing and handling of honey in Uganda (funded by the School of Graduate Studies, Makerere University through Carnegie-Makerere Competitive Research Grant) (August 2009-August 2011) (USD 65,000 Only). The research was aimed at: determining the current knowledge, attitudes and

practices related to honey production and utilization; assessing the problems faced by bee farmers in trying to process and add value to honey and their approaches to addressing them; comparing the influence of traditional and modern methods of processing and handling honey on its quality characteristics; developing a recommended protocol suitable for processing, packaging, storage and distribution of honey under Ugandan agro-ecological conditions; conducting profitability/economics analysis of honey processing using traditional and improved (modern) processing methods in Uganda. Under this research project, one M.Sc. student (Mr. David Tushabe) was trained.

11. Nutritional values & innovative approaches in the value addition of *Ruspolia nitidula* ('Nsenene' grasshoppers) for income generation in Uganda (funded by Makerere University School of Graduate Studies through Norwegian Support to Makerere University grant) (August 2008-August 2010) (USD 61,000 Only). The research is on-going and it is aimed at: establishing the knowledge, attitudes and practices (KAPs) related to preparation and consumption of *R. nitidula* in central Uganda; determining the nutritional contents of *R. nitidula* and the effect of common processing and storage methods on its nutritional values; exploring the innovative approaches to value addition, packaging *R. nitidula* and development of a protocol for a shelf-stable, value-added products suitable for up-take by private food processors. One M.Sc. student (Mr. Dickson Brysolumaisho) & one BSc student (Ssepuuya Geoffrey) were trained and mentored under this research project.
12. Relationship between access to forest and tree resources and livelihoods: A case of poor and female-headed households in Central Uganda (funded by Norwegian Support to Makerere University IDP- Phase II) (2007-2009) (USD 60,000 Only). This research was aimed at documenting the types of forest and tree resources collected and their importance in the daily needs of the poor and female-headed households; investigating women and poor men's current rights of access to forest and tree resources in Central Uganda; determining poor and female-headed households' livelihood dependencies on forest and tree resources and their dynamics; exploring the linkages between access to forest and tree resources, gender and livelihoods among the poor and female-headed households; analyzing how access rights to forest and tree resources and institutional arrangements can be exploited to improve rural livelihood and food security. One of the key outputs of this research was the training of one M.Sc. student (Mr. Fred Yiiki).
13. Development of a national beekeeping calendar and honeybee pest and disease control methods to promote planning of appropriate interventions to boost production of honey and other hive products (funded by Natural Agricultural Research Organization- NARO Uganda) (2006-2008) (UGX 253,000,000 Only). The project specifically determined the bee forage plants that give the best quality honey, established their flowering periods and related them to honey flow seasons; determined how environmental factors such as rainfall, temperature and humidity influences flowering of bee forage plants and nectar production; established the right months of the year when to harvest ripe honey in each agro-ecological zone; documented pests and diseases of honeybees existing in Uganda's agro-ecological zones and developed diagnostic tools for their identification; assessed the prevalence of pests and diseases affecting honeybee colonies in the agro-ecological zones; examined and documented organic (bee safe) methods of insect pest control using local materials.
14. Can policies save our forests: A socio-economic analysis of Kenya and Uganda's forest management and conservation policies (2005-2009) (funded by AFORNET) (USD

245,000 Only). This research assessed the efficacy of forestry policy in Kenya and Uganda on rural livelihoods; examined socioeconomic and policy factors triggering forestry depletion in both countries; assessed the impact of forest depletion on rural livelihoods and documented the livelihood responses to forestry depletion in both countries; reviewed and analyzed sectoral policies and legal frameworks relevant to forest management in both countries; engaged key stakeholders in forest policy dialogues.

15. Assessment of on-farm conservation strategies, post-harvest handling and nutritional value of the Shea butter (*Vitellaria Paradoxa*) tree & shea products in Uganda (funded by the School of Graduate Studies, Makerere University through Carnegie-Makerere Competitive Research Grant) (2007-2009) (USD 65,000 Only). This research established indigenous on-farm conservation strategies and local community attitudes towards on-farm conservation of *Vitellaria paradoxa*; determined variation in the chemical composition and nutritional values of local shea butter fruit, kernels, oil and fat in the range districts of Uganda; analyzed shea butter food quality in relation to processing methods and post harvesting practices among shea producing communities; assessed local uses and economic values of shea butter products among shea producing communities in Uganda. One M.Sc. student (Mr. Francis Omujal) was trained under this research project.
16. Analysis of pit-sawn timber production in natural forests of Uganda, 2004-2005 (USD 171,400 Only). This case study was financed by Forest Products Service Department of FAO. The case study was aimed at highlighting the impacts of pitsawing in Uganda and the approaches being undertaken by policy-makers in this industry. The study assessed the forest management practices, forest policies and laws with regard to pitsawing. It analysed the policies that have indirectly encouraged the emergence of pitsawing. In addition, the study provided an analysis of the local and export timber markets; the effects of pitsawing operations on the community adjacent to Central Forest Reserves, and the livelihood systems of the pitsawyers and the target communities. The output of the study has been published by FAO as Forest harvesting case-study No. 22.
17. Roles of women in on-farm tree planting activities: A Case Kumi District, Eastern Uganda (2005). This project assessed the roles of women in tree planting activities, examines the opportunities and constraints to tree planting by women in this part of the country. Experiences of women in relation to on-farm tree management have been markedly different from those of their male counterparts, making gender issues pertinent to on-farm tree management. Women face an uphill battle in on-farm tree planting activities because, as a general rule, “forestry is not (and has not been) particularly responsive to social equity issues, including those pertaining to gender”. The other team members in this project was Mr. Emmanuel Okalang.
18. Potential of domesticating indigenous fruit trees for income & household food security in Uganda (funded by NURRU) (2003-2004) (UGX 83,600,000 Only). Principle researcher and the team leader. Indigenous fruit trees have enormous potential in contributing to nutrition and cash economy of small-scale farmers. Many of them are available in the dry seasons when food supplies are low, thus contributing significantly to the nutrition of low-income rural households. Local communities were engaged in a participatory research in order to understand the potential of domesticating indigenous fruit trees for income & household food security under the Plan for Modernization of Agriculture & National Forestry Plan. Training of Trainees (TOT) in domestication of

indigenous fruit trees were conducted and training report was made. By-laws and policy briefs were also produced.

19. Farmer-Centred Rural Planning and Resource Management: A Case of Rakai District (November-December 2003) (UGX 110,000,000 Only). The objective was to explore planning methods that enhance the management of resources for long-term productivity while enhancing quality of life for farmers amidst the rapid and ever-changing character of rural economy as well as the rising demands placed upon rural places and resources by the evolving national economy. The work focused on the continuing need to better integrate disparate and often conflicting components of human activities in local farming systems. The work involved participatory Learning Action (PLA). Farmers' perspectives of constraints and prospects to rural development & their sustainable livelihoods were identified. Institutional diagrams and village resource maps were constructed. Policy recommendations to village resource planning and management were suggested.
20. Ecology, conservation & agroforestry potential of *Acacia senegal* (L.) Willd in the rangelands of Luwero & Nakasongola, Uganda (financed by NORAD) (2002-2003) (USD 55,000 Only). Principle researcher. This project assessed the ecology, conservation & agroforestry potential of *Acacia Senegal* and resulted into dissemination output inform of two peer reviewed journal publications. *Acacia senegal* (L.) Willd (commonly called Gum Acacia, Gum Arabic Tree, or Gum Senegal Tree) is a valuable dryland agroforestry tree species. It produces gum arabic (used extensively in food processing and pharmaceutical preparations, inks, pottery pigments, water-colors, wax polishes, and liquid gum); stabilizes sand dunes, fixes atmospheric nitrogen and used as fence posts, firewood & fodder.
21. Impacts of rice production in North and Eastern Uganda, (funded by Department of Agricultural Economic, Makerere University) (August - December 2001). Research Assistant. This research evaluated the impact of rice production on household food security & income of the rural poor. It also assessed the constraints and opportunities to small and large-scale rice production in these regions. By-laws on issues pertaining land ownership were suggested.
22. Impacts of land use activities on tree species composition & structure on the edges of Budongo Forest Reserve (financed by Government of Uganda through FFNC, Mak) (September 1999-June 2000) (UGX 15,000,000 Only). Principle researcher. In this project, four land use practices were identified and their impacts on tree species composition, abundance & structure were assessed. Policy recommendations geared towards sustainable management of biodiversity were proposed.
23. Management Case Study of Nyabyeya Forestry Plantation, Masindi, Western Uganda (July- October 2000). Rational forest management requires data and information about the resource that may be scarce, unreliable or nonexistent. This is often the case with forest plantations, which frequently are new developments. Assessments were therefore made on stand stocking both in the young and mature plantations. Financial analysis (cash flow) of different management options was also conducted. Taungya management system being the best option was recommended. Taungya is a system is a management option in which a piece of land is cleared and planted with tree seedlings. At the same time food crops are planted among the trees. These food crops can be farmed for duration of 2 to 3 years depending on how quickly the tree canopy develops. After 3

years, the trees remain on the land until they are harvested and then the system can be repeated.

### **4.3 Outreach activities (selected)**

#### **4.3.1 Consultancy Records**

1. Capacity skills need assessment, establishment of occupational standards, and development of sector skills strategies & plan in the agricultural sector in Uganda on behalf of Uganda Skills Development Project (USDP), Ministry of Education and Sports, Uganda 2021-2022 (USD 350,000 Only). We carried out a capacity needs assessment (essentially sector analysis and skills supply and demand); Identified, adapted and recommended appropriate occupational standards for key occupations in the sector; Designed a capacity development strategy and plan which addresses key issues and future needs of the Uganda's agricultural sector.
2. Training consultancy (UGX 2.5 billion only) from Ministry of Agriculture, Animal Industry and Fisheries (MAAIF) through the Directorate of Agricultural Extension services under the Agricultural Technology and Agribusiness Advisory Services (ATAAS) project to organize a series of refresher training for technical staff from District Local Governments in the areas of agribusiness development, appropriate post-harvest technology and safe use of agro-chemicals and fertilizer optimization in modern crop husbandry among others, 2017-2019. The main objective of the training was to provide agricultural extension field staff with technical skills and functional knowledge to successfully and sustainably implement project activities in efficient and effective manner.
3. Project impact evaluation for Uganda second environment management and capacity building project (EMCBP II), November 2012 (USD 121,500 Only). EMCBP II was the second phase of a long-term program of assistance to build environment management capacity in Uganda. EMCBP II was approved by the World Bank Board on March 20, 2001, and was declared effective on June 25, 2001, for a total amount of SDR 17.10 million (historical equivalent US\$26.6 million). The first-phase EMCBP I expired on 13<sup>th</sup> May, 2009 giving way to the second-phase EMCBP II re-named as EMCBP II Additional Finance (EMCBP II-AF) which formally ended in July, 2012. I and Dr. Romano Larry Adupa conducted the evaluation.
4. Extent to which biodiversity conservation has been integrated into national development policies and plans in Uganda, December 2012 (USD 35,000 Only). The purpose of this consultancy was to review the extent to which biodiversity conservation has been integrated into national development policy – and vice versa – and to draw conclusions as to whether this has enhanced the implementation of key biodiversity conservation objectives and commitments. I and Assoc. Prof. John Bosco Lamoris Okullo conducted the review consultancy on Behalf of Uganda Wildlife Authority (UWA).
5. A survey of client's attitudes towards services provided by Uganda National Council of Science and Technology (UNCST), June 2012 (UGX 65,000,000 Only). This was the third survey in a series that has been commissioned by Uganda National Council for Science and Technology (UNCST) on the attitudes of clients towards the services it provides. The purpose is to establish a trend and gauge whether or not there has been some improvement in the level of satisfaction by clients with the services provided by UNCST. I and Prof. Joseph Obua conducted the consultancy survey on behalf of UNCST.

6. Analysis of forest and land resource utilization, management and their impact on livelihoods in Teso and Lango farming systems. A consultancy financed by NARO/DFID COARD Project fund and implemented by Uganda Project Implementation and Management Centre (UPIMAC) and Forest Resources Research Institute (FORRI-Uganda) (UGX 450,000,000 Only), 2004. The work analyzed natural resource (water, forests and land) use and management and their interactions with livelihoods in Teso and Lango farming systems. It was designed to understand the link between natural resource utilization and management and their impact on livelihoods. The Teso and Lango farming systems were selected because for past five years they remained the focus of NARO/DFID project that aimed at improving the livelihoods of the people in these areas through client oriented agricultural research. Other team members included Dr. John Okorio, Prof. Joseph Obua, Dr. JBL Okullo, Bernard Obaa, Jude Sekatuba, Vincent Opolot & Jude Mike Mudoma.
7. Development of component 4 (Capacity building, Training needs assessment, Dissemination and Replication Strategy for invasive plant management in Uganda) for a project on Removing Barriers to Invasive Plant Management in Africa. A consultancy funded by CAB International under the PDF-B Phase of the UNEP/GEF through the National Agricultural Research Organization (NARO), (UGX 263,000,000 Only), 2004. Invasive Plant Species (IPS), those plants that spread naturally in natural or semi-natural habitats, pose one of the biggest threats to the conservation of biodiversity in terms of their effects on the composition and structure of ecosystems. This consultancy that was undertaken as part of the GEF project development phase, addresses one of the four major barriers identified, that of insufficient capacity for IPS management. A capacity building/training needs assessment was undertaken and a dissemination and replication strategy developed. Outputs areas for intervention under the full GEF project were also identified. The report is available for free download at <http://www.naro.go.ug/Invasivespecies/Reports/Capacity%20building%20training%20needs.pdf>.
8. Baseline survey on biodiversity usage & conservation in relation to the local communities' socio-economic livelihoods for Rural Energy & Environmental Conservation Project, Dokolo District. A consultancy financed by Yele Ikom Can Atur Farmers Association-YICAFA through UNDP (UGX 45,000,000 Only), 2004. The aim of the survey was to: assess socio-economic and poverty profile of the local communities in project areas; determine tenure systems under which land is owned by local people in area; assess the household energy and income sources; assess the level of environmental awareness, biodiversity usage, threats to conservation; identify principal livelihood strategies and examine how they have changed over time, and lastly identify various resources local communities are endowed with.
9. Development of Curriculum (DACUM) for training NGOs in Sustainable Agriculture & Natural Resource Management (UGX 53,000,000 Only), Kampala, 2004. Developed a training module "Gender and Natural resource Management" using a DACUM approach for used in training NGOs & CBOs in Sustainable Agriculture & Natural Resource Management. The work was financed and facilitated by Environmental Alert (EA) (<http://www.envalert.org/general/index.php>)- a Non Governmental development Organization born out of the need to address the alarmingly low levels of agricultural productivity in the country, high levels of food insecurity and low incomes in both rural and urban poor communities, in addition to protecting against rapid degradation of natural resources on which community livelihood depends.

10. Global Forest Information Service (GFIS), April-June 2003. A consultancy funded by GFIS (USD 30,000 Only). Gathered well over 300 unpublished (gray literature) on forest related research work carried out in Uganda. The work involved abstracting the literature, identifying the author & the place where the material is lying. The output was then included in GFIS database. GFIS provides the framework to share forest-related data and information through a single gateway. It promotes the dissemination and sharing of these information and knowledge among the global forestry community by developing common information exchange standards, building capacity and enhancing partnerships among forestry information providers and users. GFIS can be accessed at <http://www.gfis.net/gfis/home.faces>.

#### **4.3.2 Other Outreach Activities**

1. Role model- Participated in the Uganda National Council for Science and Technology (UNCST) 2<sup>nd</sup> Annual National Science Week (15th -19th Sept., 2008) as school visitation Role Model. Certificate presented for role modeling. The School Visit Programme (SVP): This was delivered from 16th to 18th September, 2008 to different schools chosen from five regions of Uganda. Schools were visited by role models and UNCST staff (including scientists, technologist, researchers, engineers and S&T related entrepreneurs) to share their experiences about S&T based careers and interact with students especially senior 2 and 3, which are the levels at which they start to choose their careers. The schools visited included Uganda Martyrs S.S- Namugongo; Mvara SS- Arua; Lira Town College- Lira; Pongdwong SS- Gulu; Bukoyo SS- Iganga; Tororo Girls School- Tororo; Masindi SS- Masindi; Bweranyangi Girls School- Bushenyi; Katikamu SS- Wobulenzi; Mariam High School- Kisaasi; Everlight College- Kampala; St. John Secondary School- Busia & Teso College Aleot- Soroti.
2. In-Service Training of District Service Providers in Appropriate Agroforestry Intervention (Innovation at Makerere University), 2003 - 2007. Coordinated and participated in the training as well as development of training modules for service providers under decentralized district structures. Agroforestry (AF) is an innovation promoted for efficient and increased farm productivity, overcoming adverse soil, climatic changes, and exploiting market opportunities. Six-module training manual for AF service providers were developed and published by Fountain Publishers, Kampala Uganda in 2007. Module 1 deals with AF systems and practices. Module 2 deals with soil conservation. Module 3 covers gender aspects of AF. Module 4 is about policy and laws that impact of AF. Module 5 focuses on agribusiness while module 6 is training and extension. You can buy this book (Design of Appropriate Agroforestry Interventions in Uganda (An Agroforestry In-Service Training Manual), ISBN 978-9970-02-677-7 from online book stores or contact Fountain Publishers Limited, at Fountain House 55 Nkrumah Road, P.O.Box 488 Kampala, Uganda. Email: [sales@fountainpublishers.co.ug](mailto:sales@fountainpublishers.co.ug).
3. Development of a practical guide for establishing a tree nursery in Eastern Africa, 2006. This was a consultancy work on behalf of The ACP-EU Technical Centre for Agricultural and Rural Cooperation (CTA) after a series of write-shops organized and financed by International Institute of Rural Reconstruction (IIRR). The guide has been published in 2007 as CTA Practical Guide Series, No. 10 with ISSN 1873-8192, and is available online for free download at: [http://www.anancy.net/documents/file\\_en/010\\_Establishing\\_a\\_Tree\\_Nursery\\_A4.pdf](http://www.anancy.net/documents/file_en/010_Establishing_a_Tree_Nursery_A4.pdf)

4. Training of Trainers (TOT) of Yele Ikom Can Atur Farmers Association-YICAFA on Agroforestry and Environment Protection sponsored by UNDP through Rural Energy & Environmental Conservation of Atur (REECA) Project and conducted at Pole Pole Guest House, Dokolo District, 2004. RECCA, a project in Dokolo district- formerly part of the greater Lira district of Uganda is an integrated community based renewable energy and environmental conservation project funded by Small Grant Programme (SGP) of the UNDP Uganda; with a leveraged funding from the FAO Telefood Uganda Project for the Bee keeping component. The project is promoting an integrative community led conservation process for sustainable development, poverty eradication and environmental conservation. YICAFA, a local CBO implements the project. "YICAFA is a local dialect word (in Langi) for struggle against "poverty".
5. Training advisor to Katende Harambee Rural-Urban Training Center, Namungongo, Nsawo, Box 21040 Kampala, Uganda; 2005- present. The Katende Harambe Rural-Urban Training Centre is a registered non-political organization whose core values guides members, volunteers of diverse occupations, most of them professionals with considerable experience, to practically enhance sustainable integrated farming to accelerated wealth through selfless quality training and extension services in integrated farming to urban and rural communities, small-scale farmers and partner organizations.
6. Training and awareness campaigns on domestication issues of indigenous fruit trees (IFTs) for increased food security and household incomes at Adwari Sub-County, Lira District, 2004. This training Training of Trainees (TOT) and awareness campaign were part of our phase III of NURRU (Network of Ugandan Researchers and Research Users) research strategy at scaling up information on potential of domesticating IFTs for improved food security and household incomes in Lira district. Training, posters and broadcasts FM Radios in local languages were conducted. The radio broadcast lasted for 1.5 hours which time listeners asked questions about IFTs and we responded to them. Local communities at Adwari were also guided to come up with their by-laws about promotion and conservation of IFTS in their locale. A training and awareness report were submitted to NURRU and Local Government at Adwari, Lira District. f Trainees (TOT) in domestication of indigenous fruit trees were conducted and training report was made. By-laws and policy briefs were also produced. Other team members were the scaling-up phase were Prof. Joseph Obua, Mr. Jasper Okello and Ms. Grace Akullo.

## **5. Publications**

### **5.1 Referred Journal Publications**

1. G Erem, W Olwit, AG Mubuke, C Otike, **JG Agea**, A Kisolo, MG Kawooya, C Schandorf (2023). Examining the Decision of Radiographers in the Selection of Computed Tomography Scan Radiation Doses, *International Journal of Medical Imaging*. Volume 11, Issue 1, pp. 12-20. doi: [10.11648/j.ijmi.20231101.13](https://doi.org/10.11648/j.ijmi.20231101.13)
2. Akecha T, Isubikalu T, Sanya LN, Mubangizi N, **Agea JG**, and Eton M (2022). The nexus between the interaction among Cowpea actors and its market shares in Uganda. A case of Oyam District. *Journal of Agricultural Extension and Rural Development*. Volume 14(3): 102-112.
3. Okullo JBL, Omujal F, Enuru T, Bigirimana C, Isubikalu P, **Agea JG**, Bizuru E and Obua J (2022). Farmers' Use of Indigenous Fruit Trees to Cope with Climate Variability

- in the Lake Victoria Basin Districts of Uganda. *Current Research in Agricultural Sciences* 9(1): 59-83.
4. Omujal F, Okullo JBL, Bigirimana C, Isubikalu P, **Agea JG**, Malinga M, Obaa BB and Bizuru E (2021). Physico-chemical, proximate, mineral and bioactive composition of *Garcinia buchananii* Baker fruit from Uganda and Rwanda. *Afr. J. Food, Agric. Nutr. Dev.* 21(10): 18932-18949.
  5. Akecha T, Isubikalu P, Sanya LN, Mubangizi N, **Agea JG** and Eton T (2021). Shaping interaction among cowpeas farmers: Do institutions have a role to play? A case of Oyam district in Uganda. *Journal of Agricultural Extension & Rural Development* 13 (4): 280-287.
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## **5.4 Books Edited in Press**

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## **5.5 Theses, Scientific Reports and Policy Briefs**

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5. **Agea J.G** (2004). Baseline survey on biodiversity usage & conservation in relation to the local communities' socio-economic livelihoods. A consultancy report submitted to UNDP through Rural Energy & Environmental Conservation Project of YICAFA (Yele Ikom Can Atur Farmers Association).
6. **Agea J.G**, Obua, J and Okullo J.B.L (2004). Training of Trainers (TOT) on Agroforestry and Environment Protection. A training report submitted to UNDP/GEF/SGP Uganda Country Office, Kampala through YICAFA (Yele Ikom Can Atur Farmers Association).
7. **Agea J.G**, Obua J, Okello J and Akullo G (2004). Training and awareness on domestication of indigenous fruit trees for increased food security and household incomes at Adwari Sub-County, Lira District. A training report submitted to Network of Ugandan Researchers and Research Users (NURRU).
8. **Agea J.G**, Obua J, Okello J and Akullo G (2004). Potential of domesticating indigenous fruit trees for food security and household incomes in Lira district. A research report submitted to Network of Ugandan Researchers and Research Users (NURRU).
9. **Agea J.G** (2001). Management Case Study of Nyabyeya Forestry Plantation, Masindi, Western Uganda. A management case study report submitted to Faculty of Forestry & Nature Conservation (FFNC), Makerere University Kampala in partial fulfillment for the award of B.Sc degree in forestry. Library FFNC.

### **5.5 (c) Policy Briefs**

1. **Agea J.G** (2023). Promoting neglected and underutilized plant species for improved food security. Policy brief submitted to the Ministry of Water, Lands & Environment; Ministry of Agriculture, Animal Husbandry & Fisheries.
2. **Agea J.G** (2023). Prospects for sustainable use and development of wild food plants in Uganda. Policy brief submitted to the Ministry of Water, Lands & Environment; Ministry of Agriculture, Animal Husbandry & Fisheries.
3. **Agea J.G** (2023). Food security from our forests: Regulating wild edible plants for household food security in Uganda. Policy brief submitted to the National Forestry Authority, National Environment Management Authority (NEMA) and Uganda Wildlife Authority (UWA).
4. **Agea J.G** (2023). Homegardens in Uganda: Their potential and opportunities for contributing to nutrition-sensitive food systems for improved livelihood. Policy brief submitted to the Ministry of Water, Lands & Environment; Ministry of Agriculture, Animal Husbandry & Fisheries.
5. **Agea J.G** (2022). Are neglected wild and traditional plants the food for the future of Uganda's wananchi? Policy brief submitted to Ministry of Agriculture, Animal Husbandry & Fisheries.
6. **Agea J.G** (2022). Nutritionally essential macro and micro mineral contents of *Aframomum angustifolium* and *Physalis peruviana* wild edible fruits of Bunyoro-

- Kitara Kingdom. Policy brief submitted to Buynoro-Kitara Kingdom, and Ministry of Agriculture, Animal Husbandry & Fisheries.
7. **Agea J.G** (2019). Proximate composition, Vitamin C and Beta-Carotene contents of *Aframomum angustifolium* and *Physalis peruviana* edible wild fruits of Bunyoro-Kitara Kingdom. Policy brief submitted to Buynoro-Kitara Kingdom, and Ministry of Agriculture, Animal Husbandry & Fisheries.
  8. **Agea J.G** (2019). Management of edible insects as food and feed in Uganda: An outlook. Policy brief submitted to Ministry of Agriculture, Animal Husbandry & Fisheries.
  9. **Agea J.G** (2019). Opportunities and challenges of edible insects for food and feed in Uganda. Policy brief submitted to Ministry of Agriculture, Animal Husbandry & Fisheries.
  10. **Agea J.G** (2019). A survey of herbal weeds that are used to treat different ailments in Uganda. Policy brief submitted to the Minister of Health.
  11. **Agea J.G** (2017). Unplanned vegetation is important: Edible weeds as food in Uganda. Policy brief submitted to Ministry of Agriculture, Animal Husbandry & Fisheries.
  12. **Agea J.G** (2016). Wild and semi-wild leafy vegetable use and knowledge across multiple sites in Buynoro-Kitara Kingdom. Policy brief submitted to Buynoro-Kitara Kingdom, the Ministry of Water, Lands & Environment, and Ministry of Agriculture, Animal Husbandry & Fisheries.
  13. **Agea J.G** (2015). Proximate composition, Vitamin C and Beta-Carotene contents of selected leafy wild and semi-wild food plants from Bunyoro-Kitara Kingdom. Policy brief submitted to Buynoro-Kitara Kingdom, and the Ministry of Agriculture, Animal Husbandry & Fisheries.
  14. **Agea J.G** (2014). Evaluation of the nutritional value of selected wild and semi-wild leafy vegetables of Buynoro-Kitara Kingdom. Policy brief submitted to Buynoro-Kitara Kingdom, the Ministry of Water, Lands & Environment; Ministry of Agriculture, Animal Husbandry & Fisheries.
  15. **Agea J.G** (2013). The potential of neglected and underutilized species for improving diets and nutrition. Policy brief submitted to the Ministry of Agriculture, Animal Husbandry & Fisheries.
  16. **Agea J.G** (2012). Biodiversity for food and nutrition: Edible wild and semi-wild food plant of Buynoro-Kitara Kingdom. Policy brief submitted to Buynoro-Kitara Kingdom, the Ministry of Water, Lands & Environment; Ministry of Agriculture, Animal Husbandry & Fisheries.
  17. **Agea J.G** (2008). Agroforestry and youth in Uganda: Opportunities and challenges. Policy brief submitted to the Ministry of Gender, Labour and Social Development; and Ministry of Agriculture, Animal Husbandry & Fisheries.
  18. **Agea J.G** (2008). Agroforestry, food security and nutrition in Uganda. Policy brief submitted to the Ministry of Agriculture, Animal Husbandry & Fisheries.
  19. **Agea J.G** (2004). Agroforestry potential of *Acacia senegal* in the rangelands of Luwero & Nakasongola, Uganda. Policy brief submitted to the Ministry of Water,

Lands & Environment; Ministry of Agriculture, Animal Husbandry & Fisheries; Luwero and Nakasongola Local Governments.

20. **Agea J.G**, Obua J, Okello J and Akullo G (2004). Potential of domesticating indigenous fruit trees for food security and household incomes in Lira district. Polic brief submitted to the Network of Ugandan Researchers and Research Users (NURRU); Local Governments (Lira district).

## **5.6 Articles in Press (Manuscripts)**

1. **Agea Jacob Godfrey** & Teklehaimanot Zwege. Nutritionally essential macro and micro mineral contents of *Aframomum angustifolium* and *Physalis peruviana* wild edible fruits of Bunyoro-Kitara Kingdom, Uganda (**In Press- International Journal of Medicinal and Aromatic Plants**).
2. **Agea Jacob Godfrey** & Teklehaimanot Zwege. Proximate composition, Vitamin C and Beta-Carotene contents of *Aframomum angustifolium* and *Physalis peruviana* edible wild fruits of Bunyoro-Kitara Kingdom, Uganda (**In Press- International Journal of Medicinal and Aromatic Plants**).

## **6. Selected Conferences, Workshops, Seminars Attended & Presentation Delivered (where applicable)**

1. Attended the First RUFORUM Triennial Conference and the 7<sup>th</sup> Higher Education Week with a theme “*Operationalizing Higher Education for Innovation, Industrialization, Inclusion and Sustainable Economic Development in Africa: A Call for Action*”; Held in Palais des Congres de Cotonou, Benin, 6-10 December 2021.
2. Attended the 16<sup>th</sup> Annual General Meeting (AGM) of the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) organized by RUFORUM Secretariat in Partnership with Mohammed VI Polytechnic University, in Morocco (UM6P) with the theme “*Higher Education- Private Sector Partnership: Harnessing Opportunities for Agricultural Transformation in Africa*”, 16<sup>th</sup> - 20<sup>th</sup> November 2020.
3. Attended and presented a paper on the Sixth RUFORUM African Higher Education Week and RUFORUM Biennial Conference held at the Kenya International Convention Center in Nairobi with a theme “*Aligning African Universities to accelerate attainment of Africa’s Agenda 2063*”, 22<sup>nd</sup> – 26<sup>th</sup> October 2018.
4. Attended and presented a paper on the Fifth RUFORUM Biennial Conference 2016 also known as the ‘African Higher Education Week’ at the Century City Conference Centre, Cape Town, South Africa under the Theme “*Linking Agricultural Universities with Civil Society, the Private Sector, Governments and other Stakeholders in support of Agricultural Development in Africa*”, 17 – 21 October 2016.
5. Attended and presented a poster at GCE Xcelerator Pilot Workshop II Increasing the impact of grand challenges explorations innovations through venture training. Organized by Bill & Melinda Gates Foundation, Seattle, USA, 6<sup>th</sup> -10<sup>th</sup> April 2014.
6. Attended a training course in PhD Supervision and Mentorship, Organised by School of Graduate Studies, Makerere University Kampala at Hotel Africana, 11<sup>th</sup>-14<sup>th</sup> January 2011.

7. Attended a validation workshop on “Building Capacity for African University Graduates to Foster Change through Agricultural Innovation (GO4IT)”, Organised by Department of Extension & Innovation Studies, School of Agricultural Sciences, College of Agriculture and Environmental Sciences Makerere University Kampala Uganda in Emerald Hotel Kampala, Uganda, 16<sup>th</sup> – 17<sup>th</sup> December 2010.
8. Attended the First Regional Research School in Forest Sciences in Eastern and Southern Africa ‘REFOREST Africa’ workshop held in Peacock Hotel, Dar es Salaam, Tanzania. Organized by Sokoine University of Agriculture and Swedish University of Agricultural Sciences with financial support from Swedish International Development Cooperation Agency (SIDA), 9<sup>th</sup> – 12<sup>th</sup> December 2010.
9. Attended College of Natural Sciences (SBS/SENRGY/SOS) PhD Conferences, Tuesday 15 December (2009), Monday 22 March (2010) in the Thoday Building, Bangor University. Presented a paper on nutritional contents of five Wild & semi-wild food plants commonly consumed by local people in Bunyoro-Kitara Kingdom.
10. Attended College of Natural Sciences (SBS/SENRGY/SOS) PhD Conferences, Monday 16 June (2008), Monday 15 December (2008), 31 March (2009), Monday 15 June (2009) in the Brambell Building, Bangor University. Presented poster title ‘Wild & semi-wild food plants consumed by local people in Bunyoro-Kitara Kingdom, Uganda’. Was highly commended for the award of the 1<sup>st</sup> prize.
11. Attended the Commonwealth Summer Youth Conference, 29<sup>th</sup> June – 1<sup>st</sup> July 2009, London. The conference focused on the question of 'How can we change the world?' The conference looked at this question from a campaigning, political, civil society, and country to country basis.
12. Attended the People and Environment seminar on theme ‘marginal environments’: Near the Margin of Existence- Upland prosperity in Wales during the Early Modern period; Living with sand- coastal environment and archaeology in western and northern Britain. Hosted by the School of History, Welsh History and Archaeology, the School of Ocean Sciences, the School of the Environment, Natural Resources & Geography, and the Countryside Council for Wales. 4<sup>th</sup> march 2009, Room G1 (Ground Floor), Main Arts building, Prifysgol Bangor University.
13. The 3<sup>rd</sup> Annual Beyond Boundaries Research Conference, held in Neuadd John Phillips Hall College Road, Bangor University, 22<sup>nd</sup> -23<sup>rd</sup> of January 2009. Presented the paper ‘Market survey of *Mondia whytei* (Mulondo) roots in Kampala City, Uganda’ during the conference, and won the prize as the best presenter). (<http://www.bangor.ac.uk/news/full.php?Id=425>).
14. The 2<sup>nd</sup> Annual Beyond Boundaries Research Conference, held in Brambell Building (School of Biological Sciences), Bangor University, 23<sup>rd</sup> -24<sup>th</sup> of January 2008. Presented the paper ‘Market survey of *Mondia whytei* (Mulondo) roots in Kampala City, Uganda’ during the conference, and won the prize as the best presenter).
15. Attended the Environmental seminar on 'Tiny volumes and giant pressures: why plants may not be like steam engines after all'. G23, Thoday Building, University of Wales, Bangor 2<sup>nd</sup> November 2007.

16. Attended the Phil Williams Memorial Seminar "Drinking in the last chance saloon: the challenge of climate change and sustainable energy". MALT, Main Arts Building, College Road, University of Wales, Bangor 9<sup>th</sup> November 2007.
17. Attended an interdisciplinary conference on food in text and image. National Institute for Excellence in the Creative Industries, University Bangor, 24-25 November 2007.
18. Attended the National Workshop on Operationalisation of Postgraduate Programme for Enhancement of Skills in Agricultural Information and Communication Management (AICM) in ASARECA Region held in Imperial Botanical Beach Hotel, Entebbe Uganda, 24<sup>th</sup> – 26<sup>th</sup> July 2007.
19. Attended the 3<sup>rd</sup> African Regional Youth Congress on Science and Technology on the theme "Enhancing the role of the youth in attaining the Millennium Development Goals (MDGs) in Africa: Implications for Science, Technology and Innovation" held in Hotel Africana, Kampala, Uganda, 3<sup>rd</sup> – 5<sup>th</sup> July, 2007. Jointly presented paper on Traditional medicine and sustainable primary health care: a case study of Nangabo sub-county, central Uganda. Sponsored by The African Technology Policy Studies Network (ATPS) in collaboration with The Technical Centre for Agricultural Cooperation (CTA), The Uganda National Council of Science & Technology (UNCST) and The African Youth Forum on Science & Technology (AYFST).
20. Attended the 23<sup>rd</sup> Soil Science Society of East Africa (SSSEA) Conference on the theme Enhancing stakeholders' participation in natural resource Management: A key to improved livelihoods; held in Masaka, Uganda from 19<sup>th</sup> –24<sup>th</sup> November 2006. Presented a paper on Natural resource governance, conflict prevention, peace building and development: A case of African continent.
21. Attended a workshop on Scientific Writing held in Kenya Forestry Research Institute (KEFRI), Nairobi from 30<sup>th</sup> October to 2<sup>nd</sup> November 2006. Sponsored by The African Forest Research Network (AFORNET), Eastern & North Eastern Node.
22. Attended and rapoteured a one-day workshop organized by Uganda National Agricultural Forum for Training (UGA-NAFT) on integrated Natural Resources Management (INRM) in Uganda held in the conference room of the Faculty of Forestry & Nature Conservation, Makerere University Kampala Uganda on 25<sup>th</sup> September 2006.
23. Attended a one-day National Apiculture Research and Development Workshop held in Ridar Hotel, Mukono, Uganda on 18<sup>th</sup> August 2006.
24. Attended and successfully completed a two week training workshop on Doctoral Research Methodology (Qualitative & Quantitative Approach) held at the conference room of the Faculty of Forestry & Nature Conservation, Makerere University Kampala, Uganda, July 2006. Sponsored by Sida/SAREC.
25. Attended the Scientific Conference on Biodiversity in Inhabited Areas of Eastern Africa held Senate Conference Hall, Makerere University Kampala, Uganda, from 19<sup>th</sup> –21<sup>st</sup> July 2006. Sponsored by DANIDA-ENRECA. Presented a paper on the Diversity of indigenous fruit trees in the traditional cotton-millet farming system: The case of Adwari sub-county, Lira District, Uganda.
26. Attended and completed very successfully Soft Skill and Personal Mastery Training workshops in Imperial Botanical Beach Hotel, Entebbe Uganda and Ridar Hotel,

Mukono, Uganda, 2006 - 2007. Sponsored by Regional Universities Forum for Capacity Building in Agriculture (RUFORUM).

27. Attended the 2<sup>nd</sup> African Regional Youth Congress on Science and Technology on the theme Food Security and Health for Sustainable Development in Africa held in La Palm Beach Resort, Accra Ghana, 26<sup>th</sup> – 28<sup>th</sup> June 2006. Presented a paper on the Role of Indigenous Knowledge in Enhancing Household Food Security: A Case Study of Mukungwe, Masaka District, Central Uganda. Sponsored by The African Technology Policy Studies Network (ATPS) in collaboration with The Technical Centre for Agricultural Cooperation (CTA), The Council for Scientific and Industrial Research (CSIR) and The African Youth Forum on Science & Technology (AYFST). (<http://www.atpsnet.org/pubs/workshop/2006%20Youth%20Congress%20Report.pdf>)
28. Participated in CTA write-shop on Practical Guides Series for Agro-Business in East Africa held in Mada Hotel, Jinja Uganda and Kenya Commercial Bank Training Centre, Nairobi Kenya, 2006. Developed a guide in “Establishment of an agroforestry tree nursery”. Sponsored by Technical Centre for Agricultural and Rural Cooperation (CTA)-Netherlands.
29. Attended and successfully completed a two weeks SRA International Research Management Training Seminar held Hotel Equatoria, Kampala Uganda, March 2005. Sponsored by Society of Research Administrators International in conjunction with Makerere University School of Post Graduate studies.
30. Attended the 3<sup>rd</sup> National Agroforestry Workshop on the theme Integrating Agroforestry into Local & National Development Programmes in Uganda held in Ridar Hotel, Mukono Uganda, from 14<sup>th</sup> –16<sup>th</sup> march 2005.
31. The 7<sup>th</sup> Conference of the African Crop Science Society held in Imperial Resort Beach Hotel, Entebbe, Uganda, 2005. Presented a paper titled “Marketing of agroforestry products in Uganda: a case study Nama sub-county, Mukono district”. Sponsored African Crop Science Society and Faculty of Forestry & Nature Conservation, Makerere.
32. A conference under the theme: ‘Plant Sciences in Development’ organized by the Department of Botany, Makerere University, in conjunction with Norwegian Agency for International Cooperation (NORAD) and held in JICA Building, Makerere University Kampala, Uganda from 21<sup>st</sup> –25<sup>th</sup> February 2005. Presented a paper on Abundance and utilization of *Pyrenacantha sylvestris* in Budongo Forest Reserve, western Uganda.
33. Dissemination Workshop on the Role of African youths in Science and Technology held in Speke Hotel, Kampala Uganda, 2005. Sponsored by African Technology Policy Studies Network (ATPS)- Uganda Chapter.
34. Workshop on the Development of Curriculum (DACUM) for training NGOs in Sustainable Agriculture & Natural Resource Management held Kampala Uganda, 2004. Developed a course module “Gender and Sustainable Agriculture & Natural Resource Management. Sponsored by Environmental Alert- Uganda.
35. The Six<sup>th</sup> Conference of the African Crop Science Society held in Hilton Hotel, Nairobi Kenya, 2003. Sponsored African Crop Science Society and Faculty of Forestry & Nature Conservation, Makerere. Presented a paper on “Agroforestry Potential of *Acacia senegal* in the rangelands of Luwero & Nakasongola, Uganda”.

36. The Annual Conservation of Biodiversity Workshop at MUIENR, Makerere University Kampala, Uganda 2003. Sponsored by Makerere University Institute of Environment & Natural Resources (MUIENR). Presented a paper on the “Contribution of Faculty of Forestry & Nature Conservation (FFNC) to biodiversity conservation in Uganda”.
37. Workshop on Participatory Action Oriented Research for Poverty Eradication held in Rock Classic Hotel, Tororo, Uganda, August 2003. Sponsored by Network of Ugandan Researchers and Research Users (NURRU). Presented a paper on the “Potential of domesticating indigenous fruit trees for income & household food security in Uganda”.
38. Workshop on Global Forest Information System (GFIS) held in Kenya Forestry Research Institute (KARI), Nairobi, 2003. Sponsored by GFIS-Netherlands.
39. Workshop on Writing Scientific Research Proposal for Funding held in Tick Hotel, Kampala Uganda, 2003. Sponsored by International Foundation for Science. Presented a proposal titled “The disappearing *Ficus natalensis*: its population dynamic and local use”.
40. Workshop on academic and scientific writing organized by the Faculty of Forestry and Nature Conservation, 28<sup>th</sup> - 29<sup>th</sup> May 2003. The workshop covered general issues and guidelines in writing and reviewing of scientific articles and reports.
41. Seminar for Uganda’s Women Forum for Development held in Mbale, Uganda, 2003. Presented a paper on “Women’s role in Forestry Development in for Poverty Alleviation”.
42. Workshop on Formal Linkages, Structure and Guidelines for the Internship Programme held in the Conference Room of the Faculty of Forestry & Nature Conservation, Makerere University Kampala Uganda, 2001.
43. Workshop on Remote Sensing and Decision-Support Simulation Modelling for Sustainable Forest Management and Bio-diversity Conservation in the Lake Victoria Crescent held in the Conference Room of the Faculty of Forestry & Nature Conservation, Makerere University Kampala Uganda, 2001.
44. Workshop on the Role of Forestry in the Reconstruction of Uganda in the 21<sup>st</sup> century held in Mbale, Uganda, 1999.
45. Workshop on theme “Biodiversity Conservation as an Assurance to the Herbal Medicine” held by Forestry Association of Makerere University (FAMU) in the Conference Room of the Faculty of Forestry & Nature Conservation, Makerere University Kampala Uganda, 1999.

## **7. Conferences, Workshops, Symposium/Seminars Organized**

1. Jointly organized Ministry of Agriculture, Animal Industry and Fisheries (MAAIF) and College of Agricultural and Environmental Sciences (CAES) series of refresher courses for extension officers from District Local Governments from in 2017 at CAEC. We mobilized a total of UGX 2.66bn shillings through MAAIF to train up to 1200 extension workers for a period of three months.
2. Jointly organized a symposium on the theme: “Genetically Modified Organisms (GMOs) and the National Biotechnology and Biosafety Bill: The last piece of Neocolonial

enslavement or the final answer to hunger and poverty in Uganda”. The purpose of the symposium was to debate and dialogue on the National Biotechnology and Biosafety Bill 2012. “Listening to all sides of the coin” - Considerations from Makerere University Academic Staff held on 18<sup>th</sup> July 2013.

3. Jointly participated in organizing 3<sup>rd</sup> African Regional Youth Congress on Science and Technology on the theme Enhancing the role of the youth in attaining the Millennium Development Goals (MDGs) in Africa: Implications for Science, Technology and Innovation that was held in Hotel Africana, Kampala, Uganda from 3<sup>rd</sup> – 5<sup>th</sup> July, 2007.
4. Jointly with other interim committee members and ATPS Uganda Chapter, organized a workshop to launce the African Youth Forum on Science and Technology- Uganda Chapter in the conference room Department of Food Science & Technology, Makerere University, Kampala Uganda on 13<sup>th</sup> April 2007.
5. Together with his team, organized a two days Review Workshop on Agroforestry Training Curriculum for In-Service Providers in Uganda from 1<sup>st</sup> – 2<sup>nd</sup> August 2005 in the conference room of the Faculty of Forestry & Nature Conservation, Makerere University Kampala Uganda. Funded by I@Mak.
6. Jointly organized and coordinated one day policy sensitization workshop for policy makers in the decentralized districts of Uganda in the areas of agroforestry in the conference room of the Faculty of Forestry & Nature Conservation, Makerere University Kampala Uganda, Uganda August 2004. Funded by I@Mak.
7. Organized the Training of Trainees (TOT) workshops at Adwari Sub-County, and awareness campaigns (FM radio broadcasts) in Lira District, on domestication issues of indigenous fruit trees (IFTs) for increased food security and household incomes in 2004. Workshop and radio broadcast were part of our phase III of NURRU (Network of Ugandan Researchers and Research Users) research strategy at scaling up information on potential of domesticating IFTs for improved food security and household incomes in Lira district.
8. Jointly organized and coordinated a two weeks workshop for training In-Service Providers from over twenty districts of Uganda in appropriate agroforestry technologies at the Continuing Agricultural Education Center (CAEC), Makerere University Agricultural Research Institute Kabanyolo (MUARIK), Uganda from 29<sup>th</sup> may 2003 to 13<sup>th</sup> June 2003. Funded by I@Mak.

## **8. Resource Mobilization, Research Grants and Awards**

1. Jointly mobilized DKK 10,012,385 (USD 1,469,437.65) only in 2023 to fund a five-year (01 October 2023 – 30 September 2028) project “Agroforestry Paradox - Climate Clever Coffee (APCCO)” from Danida Fellowship Centre (DFC) in Ministry of Foreign Affairs of Denmark (MFA); Grant DFC file no. 23-06-KU.
2. Mobilized UGX 484,000,000 only from the Research and Innovations Fund 4 (RIF4) at Makerere University in Kampala Uganda in December, 2023 to upscale the production of *Canarium schweinfurthii* wine (EMPAFU Wine) for commercialization.
3. Jointly mobilized a total of UGX 2.66 billion Only from Ministry of Agriculture, Animal Industry and Fisheries (MAAIF) to conduct a series of refresher courses for 1200 extension officers from District Local Governments at Continuing Agricultural Education Center (CAEC).

4. While the Head of Department (2015-2019), mobilized tuition fees for two academic years (UGX 112,810,000 Only) for 15 PhD students (PhD in Agricultural and Rural Innovation) through engagement with Regional Universities Forum for Capacity Building (RUFORUM) Secretariat. Additionally, mobilized over USD 60,000 in PhD research support from RUFORUM.
5. Supported 4 Post-Doctoral students as Mentor and mobilized USD 240,000 (2016-2019) for their post-doctoral studies from Regional Universities Forum for Capacity Building (RUFORUM) Secretariat.
6. Jointly awarded the competitive research grant by the Research and Innovations Fund (RIF) at Makerere University in Kampala Ugandan in 2019 to “Unlock the commercial potential of *Canarium schweinfurthi* indigenous fruits for improved livelihood in Central Uganda” (UGX 95,000,000 Only).
7. Jointly awarded the competitive research grant by Uganda National Agricultural Research Organization (NARO) under Competitive Grant Scheme (CGS) in 2019 to “Develop value-added products from Shea fruit pulp and nuts for commercialization in Uganda” (UGX 305,000,000 Only).
8. Jointly awarded the competitive research grant by Uganda National Agricultural Research Organization (NARO) under Competitive Grant Scheme (CGS) in 2017 to “Develop and commercialize bee apiary products in Uganda” (UGX 320,000,000 Only).
9. Jointly awarded the competitive research grant from National Agricultural Research Organization (NARO) in 2014 to “Develop Innovative Tools and Technologies for Increased Beekeeping Productivity in Uganda” (UGX 287,900,000 Only).
10. Awarded competitive research grant research grant in 2014 by the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) to “Unlock the potential of indigenous fruit trees for increased food security, nutritional health, cash income, farm diversity and environmental resilience in Uganda” (USD 60,000 Only).
11. Jointly awarded research grant from Bill and Melinda Gates Foundation Grant challenge Exploration in 2012 to conduct research on the “Prospects of breeding and rearing *nsebene* grasshoppers for better nutrition and healthy growth of infants and children in Eastern Africa” (USD 251,000 Only).
12. Jointly mobilized USD 121,500 Only from World Bank through National Environment Management Authority (NEMA) to evaluate project impact of Uganda second environment management and capacity building project (EMCBPII), 2012.
13. Jointly mobilized USD 35,000 Only from Uganda Wildlife Authority (UWA) to review the extent to which biodiversity conservation has been integrated into national development policies and plans in Uganda, 2012.
14. Jointly mobilized UGX 65,000,000 Only from Uganda National Council of Science and Technology (UNCST) to conduct a survey of client’s attitudes towards services provided by UNCST, 2012.
15. Jointly awarded research grant from Inter-University Council of East Africa in 2011 to conduct research on “Enhancing adaptation to climate change effects through optimized production of selected indigenous fruit trees for food and nutrition security in the Lake Victoria Basin, Eastern Africa” (USD 700,000 Only).

16. In 2011, jointly awarded a competitive SIDA-SAREC research grant through School of Graduate Studies (now DGRT), MAK to undertake a study on the “Potential of edible insects in alleviating household food insecurity in Lango Sub-region, Northern Uganda” (USD 63,400 Only).
17. Jointly awarded a competitive SIDA-SAREC research grant from School of Graduate Studies (now DGRT), MAK in 2011 to conduct a study on “Potential of Balanites (Desert Date) fruits and leaves for improved nutrition in Uganda” (USD 60,000 Only).
18. Jointly awarded research grant from Norwegian Support to Makerere University by Makerere University School of Graduate Studies in August 2008 to conduct a two (2) year (August 2008-August 2010) research on the “nutritional values & innovative approaches in the value addition of *Ruspolia nitidula* (‘Nsenene’ grasshoppers) for income generation in Uganda” (USD 61,000 Only).
19. Jointly awarded a competitive research grant (SIDA-SAREC) on proposal titled research on “Development of an improved protocol for processing & handling of honey in Uganda” in July 2009 conduct a two (2) year (August 2009-August 2011) (USD 65,000 Only).
20. Won the annual PhD Conference award prize for the best poster presentation at the College of Natural Sciences (SBS/SENRGY/SOS), 31<sup>st</sup> March 2009, in the Brambell Building, Bangor University. Presented poster title ‘Wild & semi-wild food plants consumed by local people in Bunyoro-Kitara Kingdom, Uganda’ (GBP 1,000 Only).
21. Won the 2<sup>nd</sup> annual Bangor University Beyond Boundaries Conference award prize for the conference overall best oral research paper presenter of 2008, held in Brambell Building (School of Biological Sciences), January 23<sup>rd</sup> - 24<sup>th</sup>. (<http://www.bangor.ac.uk/news/full.php?Id=425>). (GBP 500 Only).
22. Awarded the very competitive Commonwealth Academic Staff Scholarships in August 2007 to pursue Doctoral (PhD) study in Agriculture (Applied Ethnobotany & Food Security) at the University of Wales, Bangor UK (GBP 130,000 Only).
23. Awarded SIDA/SAREC Doctoral Research Grant in 2007 to fund the PhD research activities in Uganda (USD 60,000 Only).
24. Jointly awarded research grant in 2007 from Norwegian Support to Makerere University by Makerere University School of Graduate Studies to research on the “relationship between access to forest & tree resources & livelihoods of the poor and female-headed Households in central Uganda” (USD 60,000 Only).
25. Jointly awarded the Carnegie-Makerere Competitive Research Grant in November 2006 to conduct research on “on-farm conservation strategies, post-harvest handling and nutritional value of *Vitellaria paradoxa* (shea nut tree) products in Uganda” (USD 65,000 Only).
26. Jointly awarded a competitive research grant by Natural Agricultural Research Organization (NARO Uganda) in December 2006 to conduct research on the “possibility of developing honey beekeeping calendar & honeybee pest & disease control methods for Uganda” (UGX 253,000,000 Only).
27. Jointly awarded a competitive research grant by the African Forest Research Network (AFORNET) (2005 - 2009) to “analyse the socio-economic dimensions of Kenya and Uganda’s forest management and conservation policies” (USD 245,000 Only).

28. Jointly mobilized UGX 450,000,000 Only from NARO/DFID COARD Project fund to conduct analysis of forest and land resource utilization, management and their impact on livelihoods in Teso and Lango farming systems, 2004.
29. Jointly mobilized UGX 263,000,000 Only from CAB International under the PDF-B Phase of the UNEP/GEF through National Agricultural Research Organization (NARO) to conduct capacity building, training needs assessment, dissemination and replication strategy for invasive plant management in Uganda, 2004.
30. Jointly mobilized UGX 45,000,000 Only from Yele Ikom Can Atur Farmers Association-YICAFA through UNDP to conduct a baseline survey on biodiversity usage and conservation in relation to the local communities' socio-economic livelihoods for Rural Energy & Environmental Conservation Project, Dokolo District, 2004.
31. Jointly mobilized UGX 53,000,000 Only from Environmental Alert (EA), Uganda to develop curriculum through DACUM process for training NGOs in Sustainable Agriculture & Natural Resource Management, 2004.
32. Awarded Network of Ugandan Researchers and Research Users (NURRU) competitive research grant in July 2003 to conduct research on "Potential of domesticating indigenous fruit trees for income & household food security in Uganda (UGX 83,600,000 Only).
33. Mobilised USD 30,000 Only from Global Forest Information Service (GFIS) to gathered and abstract unpublished (gray literature) on forest related research work carried out in Uganda, 2003.
34. Awarded Norwegian Institutional Support Grant in 2001 to pursue Master of Science Degree in Forestry at Makerere University Kampala (UGX 75,000 Only).
35. Awarded Uganda's Government Scholarship in 1997 to pursue Bachelor of Science Degree in Forestry at Makerere University Kampala.

## 9. Students Research Supervision & Academic Activities within the College & University

### 9.1 Supervised/supervising following PhD students and MSc students

No	Student	PhD/ MSc	Thesis Title	Status
1	Mr. Dickson Biryomumaisho 2009/HD07/15480U	MSc	Small-scale processing and value-addition of <i>Ruspolia nitidula</i> for improved livelihoods: A case of small and medium enterprise development in central Uganda.	Graduated January 2013
2	Dr. Fulgencio Kayiso add registration number if available	PhD	Synthesizing indigenous and scientific knowledge for conservation and co-management of small-scale fisheries in Uganda (Kalangala and Wakiso districts).	Graduated January 2016
3	Ms. Jolly Akullo 2011/HD02/4223U	MSc	Indigenous knowledge, nutritional evaluation and value addition to commonly consumed insects in the Lango sub-region, northern Uganda	Graduated January 2016

4	Mr. Herbert Nyombi 2012/HD02/128U	MSc	Implications of the variations in tree fruiting phenology under climate change on primate foraging patterns in and around Budongo Forest Reserve, Uganda.	Graduated January 2016
5	Mr. Geoffrey Erikana Turyasingura 2010/HD02/3250U	MSc	Perceived benefits of participatory market chain approach in marketing orange fleshed sweet potatoes in Soroti District, Eastern Uganda.	Graduated January 2017
6	Dr. Deborah Ruth Amulen	PhD	Towards an increasing honey production in Northern Uganda: a multi-perspective approach	Graduated June 2017
7	Dr. Sarah Akello 2012/HD02/8U	PhD	Influence of governance structure on the management of Awoja watershed in Teso sub region, Uganda.	Graduated January 2018
8	Mr. Varlai W. Jackollie SR 2014/HD02/609X	MSc	Farmers' knowledge and uptake of recommended cassava ( <i>manihot esculenta</i> ) farming practices in Margibi County, Republic of Liberia	Graduated January 2018
9	Mr. Francis Omujal 2011/HD02/18287U	PhD	Nutritional composition and bioactive components of selected indigenous fruit trees in the Lake Victoria basin districts in Uganda and Rwanda	Graduated January, 2019.
10	Ms. Ruth Esther Napio 2014/HDO2/712U	MSc	Phyto and physico-chemical, nutritional, microbial and organoleptic properties of jam and juice processed from shea fruit pulp in Uganda	Graduated January, 2019.
11	Mr. Hudson Ogwali 2014/HD02/2599U	MSc	Diversity, utilization and propagation of selected indigenous fruit trees in Otuke district, northern Uganda	Graduated January May 2021.
12	Ms. Deborah Alio 2012/HD02/13U	PhD	Dynamics of credit utilization among end-users of rural credit schemes in Uganda	Graduated May 2022.
13	Mr. Charles Aben 2013/HD02/3184U	PhD	Political Ecology of the Management of Awoja Watershed in Eastern Uganda	Graduated May 2022.
14	Ms. Pauline Birungi 2012/HD02/12U	PhD	Determinants of collective marketing among smallholder rice farmers in western Uganda.	Dropout but rejoined the program 2018. Submitted the Thesis for examination.
15	Mr. Richard Kifuko 2014/HD/510U	PhD	Influence of cage aquaculture on livelihoods of capture fishers around Lake Victoria in Wakiso district, central Uganda	Dropout but rejoined the program 2019. Submitted the thesis for examination
16	Ms. Janet Acom 2013/HD02/	MSc	Farmers' perceptions on adoption of hybrid groundnut production as a food security crop in kumi district, eastern Uganda	Dropped out but rejoined back in 2018. Thesis for examination
17	Mr. David Ekepu 2018/HD02/56U	PhD	Social Learning as a function of student-centred outreach in Gulu and Kamuli districts, Uganda	Writing up the thesis.

18	Mr. Dickson Biryomumaisho 2019/HD02/28062U	PhD	Success factors for bee propolis value chain development in Uganda	Finished coursework. Collecting data.
19	Mr. Harold Turinawe Bamwoya 2019/HD02/25430U	PhD	Value Chain Performance for Sustainable Sawn-Wood Industry Development in Uganda	Finished coursework. Developing proposal
20	Kalimunjaye Samuel 2019/HD02/25436U	PhD	Towards effective public private partnership in scaling out research innovations in institutions of higher learning: A case of Makerere University	Finished coursework. Developing proposal
21	Mr. Roland Ainebyona 2019/HD02/...	PhD	Potato crop intensification: a case of small-holder's farmers in Southwestern Uganda	Writing the thesis.
22	Ms. Gumizamu K. Peninah 2019/HD02/...	PhD	Effect of climate smart agricultural practices on food security of small-scale farmers in Sheema district.	Collecting data.
23	Mr. David Omongot 2019/HD02/25351U	MSc	Changes in household dietary patterns in times of Covid-19: A Case study of Kumi and Soroti municipalities in Teso sub-region, Eastern Uganda	Writing the thesis.
24	Mufuruki Frank 2020/HD02/17132U	MSc	Coping strategies amidst covid-19 induced restrictions: A case of tomato traders in Kampala City.	Writing the thesis.
25	Mr. Byenkya Issa Hassan 2022/HD02/22298U	PhD	An assessment of the farmers' knowledge in the utilization of climate change adaptation and mitigation technologies. A case of maize production in Kiryadongo District.	Developing proposal.

## 9.2 Chaired the Doctoral Research Committee for the Following PhD Students

No	Student	PhD	Thesis Title
1	Achora Cox Janet	PhD	Effective use of ICTs in the knowledge pathways of conservation agriculture among smallholder farmers in Machakos and Laikipia Counties, Kenya.
2	Akello Sarah	PhD	Influence of governance structure on the management of Awoja watershed in Teso sub region, Uganda.
3	Akwango Damalie	PhD	Assessing the role of the drought early warning system in mitigation of drought effects in Karamoja sub-region, Uganda.
4	Alio Deborah	PhD	Dynamics of credit utilization among end-users of rural credit schemes in Uganda.
5	Babirye Damalie Magala	PhD	Governance and performance of coffee innovation platforms in Central and Western Uganda.
6	Birungi Rosemirta	PhD	Influence of gender participation on smallholder commercialization in the pig value chain in Masaka and Kamuli districts.
7	Birungi Pauline	PhD	Analysis of smallholder participation in the rice value chain and implications for commercializing agriculture in Uganda.

8	Chindime Sylvia Collina Clarisa	PhD	Market induced innovations among smallholder dairy farmers in Malawi
9	Isabirye Mutaasa Abas	PhD	The Effect of Smallholder Farmers' Engagement in Agricultural Innovation Platforms on Their Innovation Capacity in Masaka and Rakai Districts Uganda.
10	Kasigwa Moses	PhD	Profitability analysis of rural community based agro processing innovations of maize.
11	Lule Gelvan Kisolo	PhD	The impact of community driven development process on community empowerment in Nnindye, Mpigi District of Central Uganda.
12	Musoke Solomon	PhD	Effectiveness of beach management units in fisheries resources management at landing sites of L. Victoria, Central Uganda.
13	Nasirumbi Losira	PhD	Social dynamics in the development and uptake of agricultural technologies: A case of hybrid banana varieties in Central Uganda.
15	Opolot Henry Nakelet	PhD	Unravelling Critical factors for a responsive university-farming community engagement
16	Rugema Semaana Hilary	PhD	Partnerships in development: an analysis of partnership quality in delivery of agricultural extension support services in Central Uganda.
17	Sebuliba Richard Mutumba	PhD	Impact of agricultural extension policy on farmer innovations in Uganda: The case of Kayunga and Wakiso Districts.
18	Twase Ismail	PhD	Transfer of learning among multi-stakeholders of pineapple platform in Central Uganda.
19	Wamatsembe Wilson	PhD	Determinants of local capital accumulation in informal savings mechanisms. An analysis of VSLAs in Karamoja, Uganda.
20	Akwango Damalie	PhD	Determinants of an effective drought early warning system in semi - arid areas of Uganda.
21	Godfrey Sebagala	PhD	Determinants of the post-harvest losses in the rice value chain in Iganga District, Uganda.
22	Nada S.A. Musa	PhD	Understanding stakeholders' perception in the use of traditional and non-traditional communication channels around Gezira irrigation scheme, Sudan.
23	Mubangizi Narisi	PhD	Implications of integration of indigenous and scientific adaptation strategies for smallholder farmers' resilience to changing rainfall patterns.
24	Balikowa David	PhD	Determinants of value chain upgrading: a case of informal raw milk supply chain transformation in Uganda.
25	Getachew Shambel	PhD	Implications of food aid and rural micro-credit schemes on social cohesion in Eastern Haraghe and Southern Wollo, Ethiopia.
26	Tamubula Irene	PhD	Organizational and Institutional Innovations in the Use of Farmer-to-Farmer Videos in providing agricultural Advisory Services in Uganda.
27	Komi Gentle Wilson	PhD	Contributions of the giant tiger prawn to sustainable livelihood of its value chain actors in Nigeria.
28	Aben Charles	PhD	Political Ecology of the Management of Awoja Watershed in Eastern Uganda.

29	Karubanga Gabriel	PhD	Effectiveness of video-mediated extension approach in influencing learning among rice farmers in Uganda: the case of Sasakawa global 2000.
30	Turyahikayo Willy	PhD	Governance of innovation platforms and farmers' participation in innovations –a case of improved banana crop varieties in Uganda.
31	Mayambala Siraji Ali	PhD	Small holder farmers' coping strategies to ensure food security under liberal market reforms in Central Uganda.
32	Mulugo Lucy Were	PhD	Determinants for the low uptake of Banana Xanthomonas Wilt (BXW) control & management practices in Uganda.
33	Wamala Stephen Kalule	PhD	Contribution of student-centered outreach to curricula changes at Gulu university and actor learning in Northern Uganda.
34	Buregyeya Moses	PhD	Enabling factors for Public-private partnerships in agriculture and rural development: A case of horticultural farmers in Uganda.
35	Ndaula Sulaiman	PhD	Social psychological determinants of rural household decision to grow Vitamin A bio-fortified sweet potato in Uganda
36	Mukebezi Rebecca	PhD	Dynamics of innovation platforms and influence on performance of the cassava flour value chain
37	Kamugisha Rick Nelson	PhD	Assessing Factor Controls for the Success and Sustainability of Innovation Platforms in South Western Uganda and Acholi Land
38	Kasanziki Charles	PhD	Impact of hilltop land use community practices on downstream surface water quality; Rwanda case
39	Massa Henry	PhD	The influence of local bylaws processes in enhancing adoption of sustainable crop intensification in Uganda.
40	Okello Dorcus Loga	PhD	Youth participation in agriculture as a means of mitigating unemployment; the case of passion fruit farmers in Kyotera, Uganda.
41	Ogwal Joseph	PhD	Potential of biodiversity offsets schemes in sustainable management of Ramsar Sites: The case of Lutembe Bay Wetland System.
42	Kansiime Michael	PhD	The impact of rural finance innovations to smallholder agriculture commercialization in Uganda: a case of banana crop commercialization in selected districts of South Western Uganda.

### **9.3 Other Academic Activities Within the College & University**

1. Member of the Makerere University of the University Intellectual Property Management Committee (From January 2023 to date).
2. Member of the School of Agricultural Sciences (SAS) Establishment, Appointment & Promotion Committee since April 2022.
3. Vice-Chairperson, School of Agricultural Sciences (SAS) Awards Committee since 2014.
4. Co-facilitated the Curriculum Development & Review process for Bachelor of Agricultural & Rural Innovation (BARI), Master of Agricultural & Rural Innovation (MARI) & PhD in Agricultural & Rural Innovation (PARI) hosted by Department of Extension and Innovation Studies, School of Agricultural Sciences, College of

- Agricultural & Environmental Sciences, MAK, Uganda (2010 – 2015).
5. Co-facilitated the Curriculum Development and Review process for the Proposed Master of Science in Agricultural Information & Communication Management (MSc. AICM) to be hosted by East African School of Library & Information Science under the College of Computing & Information Sciences, Makerere University Kampala, Uganda (2011 – 2014).
  6. Facilitated the Curriculum Review process for the Master of Science in Agroforestry (MSc. Agroforestry) hosted by School of Forestry, Environmental and Geographical under the College of Agricultural & Environmental Sciences, Makerere University Kampala, Uganda (2010 –2011).
  7. Facilitated the Curriculum Development Review process for the Bachelor of Social & Entrepreneurial Forestry (BSEF) hosted by School of Forestry, Environmental and Geographical under the College of Agricultural & Environmental Sciences, Makerere University Kampala, Uganda (2009 –2012).
  8. Vice chair Special Project Research Coordinator, Faculty of Forestry & Nature Conservation (FFNC), MAK, 2004-2007. Duties are to organize students' research proposal presentations, identify and allocate supervisors to students, receive completed research projects dissertations and allocate them for marking and submit results of dissertations to the examinations coordinator.
  9. Represented FFNC on a national workshop of operationalization of postgraduate programme for enhancement of skills in agricultural information and communication management (AICM) in ASARECA Region, July 2007.
  10. Co-facilitated the FFNC strategic plan (2007/08-2017/18) and Curriculum review process, 2007. The strategic plan addressed the three university core functions of teaching and learning, research, and outreach. New courses for Undergraduate and Master programs were proposed during the curriculum review process.
  11. A committee member of FFNC Sentinel site to Gender mainstreaming Division, Makerere University Kampala, 2006- present.
  12. In charge of the practical skill field course for Bachelor of CFE 2<sup>nd</sup> year students' in-semester program, 2004-2007.
  13. Responsible for the FFNC Event Newsletter under the Publicity and Faculty Events Committee of the FFNC Board, 2006-2010. Duties were to promote the image of the faculty, guide outreach activities of the faculty, help organize events within and outside the faculty and prepare the events newsletter of the faculty.
  14. Member Computer and Library Committee, FFNC, 2004-2010. Duties were to handle administrative issues relating to computers and library, guide major purchases of library and computer equipment, manage allocation of computer facilities, guide the faculty on issues such as data management and proper utilization of computers, over-see the regular updating and management of the Faculty Website, advise the Faculty on Internet related issues and generally ensure that there is internet access.

## **10. Services to the Local and National Communities/Organizations**

1. Executive Director (ED), Pristine Research & Development Foundation (PRDF). PRDF is Non-Governmental Organization (NGO) registered in Uganda (Registration No: 80034929203330) and it operates nationally. PRDF vision is a just world, where poverty has been overcome and people live in dignity and security. Its mission is to help people whose lives and livelihoods have been hampered, recover and gain control of their future. PRDF strategic focused areas of mandates are: (1) Resilient Agriculture and Sustainable Livelihood; (2) Food, Water, and Nutrition Security; (3) Health; (4) Water, Sanitation and Hygiene; (5) Education; (6) Environment and Energy; (7) Disaster Risk Reduction; (8) Gender and Other Cross-Cutting Issues; (9) Supporting Needy Children and Destitute Poor; and (10) Fundraising, conducting research and or consultancy services in any of the above listed strategic focus areas. PRDF core values are: 1) Integrity beyond reproach; 2) Service beyond self; 3) Respect for people, communities, and cultures, and 4) Tangible, lasting results.
2. A Policy Committee Member of Makerere University Agricultural Research Institute Kabanyolo (MUARIK) since 2013. MUARIK was established as a farm in 1953, and upgraded to a fully-fledged Research Institute in 1992 under the then Faculty of Agriculture. MUARIK aims at enhancing the capacity of professionals and practitioners; disseminate knowledge and technologies for sustainable development of agricultural and agro-industrial sectors. It is the Makerere University's interface with the National Agricultural Research System (NARS). It houses the Continuing Agricultural Education Center (CAEC).
3. Represented the Academia in the National Task Force coordinated by the Ministry of Agriculture, Animal Industry and Fisheries (MAAIF) that formulated the National Agricultural Extension Strategy to guide, harmonize and implement agricultural extension services to farmers, farmers' groups, and other actors in agriculture value chains throughout the country. This strategy was in response to government's commitment to realize an agricultural revolution in the country in line with the National Agriculture Policy (NAP) (2013) and the National Agricultural Extension Policy (NAEP) (2016).
4. Represented the Academia in Review process of "Rebuilding and revitalizing the national agricultural extension system in Uganda" by Inter-ministerial Technical Committee (ITC) coordinated by the Ministry of Agriculture, Animal Industry and Fisheries (MAAIF), 2013-2014. The proposed a reform of the national agricultural extension system aims at establishing an integrated, coordinated and harmonized public extension system (Single Spine extension service delivery system).
5. Chaired MUASA review process of Makerere University Academic Staff's Appointment and Promotions Policy (2013-2014). The reviewed appointment policy with the Fast Track and Ordinary track was later passed by the Makerere University Council on its 131<sup>st</sup> (9<sup>th</sup> and 22<sup>nd</sup> May 2014) sittings.
6. Was a member of the Makerere University Ceremonies Committee (2015-2019). The Ceremonies Committee is a committee of the Senate. Its role is to advise Senate on all ceremonial matters such as the order of proceedings for graduation ceremonies, academic dress, use of the University's armorial bearings, the naming of facilities to honour a person or organization and to identify appropriate nominees for honorary awards in order to strengthen the links between the University and the community, organizations and other institutions.

7. Committee chairperson (2012-2015), National Tullow Group Scholarships Scheme Interviews & Award Committee. The Tullow Group Scholarship Scheme was aimed at building capacity in areas where Tullow's host countries experience significant skills gaps, especially, but not exclusively, around their oil and gas industries. The Scheme was aligned with Tullow's aim of supporting long-term socio-economic development in countries where it operates. Scholarships were available to those who were committed to making a contribution to their own country's development.
8. Chaired the Welfare Office of Makerere University Academic Staff association (MUASA) (2015 – 2017) and Academic & Research office of MUASA (2012 – 2014). MUASA (Makerere University Academic Staff association) was founded on 29<sup>th</sup> July, 1975 with the following objectives: Considering and promoting of matters of academic interest in the University; Jointly consulting with other academic bodies on matter of general academic interest; encouraging and maintaining academic and professional cooperation and exchange between members of the Association and members of staff in other Universities and other institutions of higher learning; promoting productive scholarship and research especially that concerning Uganda and the rest of Africa; advancing and protecting the occupational interest of members of the Association in relation to their service to the University; and lastly upholding and protecting the principle of democracy as an unalienable right of members of the association.
9. From 2015 to 2017, represented Makerere University Academic Staff Association (MUASA) in Makerere Housing Committee as well as Kabaasa Sub-Committee of the University Council. Kabaasa Sub-Committee was a special committee that was set up to streamline and harmonize salary scales for the staff at the institution.
10. A member of the Governing Board of Aduku Secondary School, Kwanja District since 2017. Aduku secondary school was established in 1956 as a junior school under the foundation of the Anglican Church. The school was taken over by the government in 1967.
11. Member of Lango Development Forum (LDF). LDF is a not for profit and non-partisan organization formed in 2002 by a group of young professionals from Lango sub-region with the aims of promoting unity among young people hailing from the Lango sub-region; contributing towards developments in the Lango Sub-region; making contributions towards the welfare of members in times of need; creating funds to sustain the various activities of the Forum; and doing anything incidental or any that is connected and consistent with these aims.
12. Representative of post graduate and international research students to Research Committee of the School of Environment, Natural Resources and Geography (SENRGY), College of Natural Sciences, Bangor University, Gwynedd LL57 2UW United Kingdom, from January 2008- August 2010.
13. Mobilized youth all over Uganda to join African Youth Forum on Science and Technology (AYFST)- Uganda Chapter from 2005-2007. AYFST is a youth-led initiative that seeks to provide a vehicle through which young people can be mentored, express their ideas, share information, network, contribute their expertise and collectively participate in policy and decision-making processes as well as harness the opportunities presented by agriculture, science and technology to address their own challenges. The Forum presents the youth with the platform to engage and utilize opportunities in agriculture science and technology to develop creative responses to the

challenges of poverty and underdevelopment in cooperation with relevant institutions of society.

14. Chaired Editorial Board of Forestry Association of Makerere University (FAMU) from 1999-2000. FAMU was founded in early 1980s and aims at voicing the interests of forestry students both within and outside Makerere University community. The associations also helps in facilitating communication amongst students, arranging student field trips, seminars, exhibitions, excursions to students interested in Forestry and allied sciences.
15. Organizing Secretary, Uganda Young Democrats (UYD)- Makerere University Branch, 1999 - 2000. The UYD began as a radical and revolutionary organization advancing the cause of the historically marginalized and was built up from a network of small political discussion groups of students in higher institutions of learning. These were later to spread out to the grassroots in form of community outreach programs that entailed meeting small groups of mainly young people in guise of soda parties because of the repressive political environment at the time. The soda parties were community discussion groups on issues of local and national and national concern. Participants in these discussions later formalized themselves into an organized front in June 1995 that came to be known as the Uganda Young Democrats (UYD).
16. Secretary for Entertainment, Forestry Association of Makerere University (FAMU), 1998-1999. I was a point of contact for all things that fall under the category of social within the FAMU. My first responsibility was to the organization of a well-planned and financially successful Fresher's Ball by liaising with Patron to create a good timely and binding social calendar.
17. A member of St. Mathias Kalemba SS Students' Council, 1996. Students' Council is body that was formed in accordance with the Uganda National Students' Association (UNSA) statute of 16<sup>th</sup> December 1998 to cater for the needs of students. Council plays a progressive role in the building of a free, peaceful and a prosperous school through fighting against bullying, oppression, injustice and exploitation of the students and to give support to all those desire freedoms in the school. The School Council promotes mutual relationships between the students and the School Administration and negotiates with the way forward on any matters concerning students generally, for instance, the students' welfare and academics.

## **11. Services to the Regional and International Communities**

1. The Uganda Government Representative in the Inter-governmental Science- Policy Platform on Biodiversity & Ecosystem Services (IPBES), at the UN Campus, Platz der Vereitein, Nationen 1, Bonn, 53113, Germany (From October 2023 to date).
2. Chairperson Global Association of Online Foresters (GAOF), 2017 to present. A member since 2005. GAOF aims at: increasing the understanding of forestry by improving communication world-wide; positioning forestry as an integral part of sustainable development at all levels – national, regional and global; identifying and review major issues facing forests and forestry, and proposing technical, scientific and policy interventions to promote forest sustainability; providing an open forum in which the world's forestry community and partners from other, related sectors can share and debate their knowledge, views and latest findings and establish and consolidate partnerships and networks.

3. Distance Part-time Instructor in the Master of Tropical Forestry, Bangor University, United Kingdom (UK) since 2012. This distance masters' programme provides part-time students from across the world with training in the management of forest resources, understanding of the scientific, academic and practical principles which underpin forest management, forest measurement and forest ecosystem function and the interrelationships between government, industry and communities' forests and associated land-use.
4. External examiner, Faculty of Agriculture and Forestry, University of Ibanda, Nigeria. University of Ibanda is one of the world-class institutions for academic excellence geared towards meeting societal needs in Nigeria.
5. External examiner, Sardar Vallabh Bhai Patel University of Agriculture and Technology (SVPUAT), Meerut, India. SVPUAT, Meerut laid its foundation on 2<sup>nd</sup> October 2000 and was inaugurated on 28<sup>th</sup> March 2002 by the Honorable Chief Minister of Uttar Pradesh.
6. Peer reviewer for the *Journal of the Science of Food and Agriculture*, (Wiley). The *Journal of the Science of Food and Agriculture* publishes peer-reviewed original research, reviews, mini-reviews, perspectives and spotlights in these areas, with particular emphasis on interdisciplinary studies at the agriculture/ food interface.
7. Peer reviewer for *Journal of Food Composition and Analysis*, (Elsevier). *The Journal of Food Composition and Analysis* publishes manuscripts on the chemical composition of human foods, analytical methods, food composition data and studies on the statistics, use and distribution of such data.
8. Peer reviewer for the *Journal of Insects as Food and Feed* (Wageningen Academic Publishers). The *Journal of Insects as Food and Feed* covers edible insects from harvesting in the wild through to industrial scale production. It publishes contributions to understanding the ecology and biology of edible insects and the factors that determine their abundance, the importance of food insects in people's livelihoods, the value of ethno-entomological knowledge, and the role of technology transfer to assist people to utilise traditional knowledge to improve the value of insect foods in their lives.
9. Peer reviewer for the *African Journal of Food, Agriculture, Nutrition and Development* (AJFAND) (Kenya). AJFAND is a highly cited and prestigious peer reviewed journal with a global reputation, published in Kenya by the Africa Scholarly Science Communications Trust (ASSCAT). AJFAND is available full text online at <http://www.ajfand.net/Index.html>, 2008- present.
10. Peer Reviewer for *Journal of Dietary Supplements* (JDS). *Journal of Dietary Supplements* (JDS) is published by Natural Standard. It is an international peer-reviewed forum for original research and review articles that focus on vitamins, minerals, herbs and other substances that make up the dietary supplement industry. JDS is available full text online at <http://informahealthcare.com/jds>, 2009- present.
11. Peer Reviewer for the *African Journal of Food Science* (AJFS). AJFS is a peer reviewed journal that provides rapid publication (monthly) of articles in all areas of food Science. AJFS is available full text online at <http://www.academicjournals.org/AJFS/index.htm>, 2008- present.

## **12. Memberships to the Professional Bodies & Academic Affiliations**

1. UNAS Fellow, since 2014. The UNAS (Uganda National Academy of Sciences) is an independent, non-profit, non-political, and membership-based service organization that was created to provide credible, balanced, and evidence-driven advice to the nation on matters of science and development.
2. Board Member and Hon. Treasurer of Ecological Trends Alliance, Uganda, since 2016. Ecological Trends Alliance, Uganda works to enhance environmental conservation and knowledge for the benefit of the people and sustainable national development. The Ecological Trends Alliance, Uganda visualizes a 'green' development through knowledge and experience-based options for humanity. They aim at securing global solutions to biodiversity and development challenges through providing biologically diverse and proven alternatives.
3. A member of The Uganda National Apiculture Development Organization (TUNADO), since her formation in 2002. TUNADO is the apex body recognized by the public and government of Uganda to coordinate all value chain actors in the apiculture industry. It unites all the producers (beekeepers), processors, packers, service providers (trainers, researches, marketers, equipment manufactures etc), development partners, government and all other stakeholders towards apiculture development in Uganda.
4. Member of the Uganda Group of the African Network of Ethno-botany/Ethno-ecology (UGANEB) from 2004-present. UGANEB is a non-profit NGO. It is part of the Africa-wide ethno-botany network that was formed in 1997 at the 15<sup>th</sup> conference of the Association for the Taxonomic Study of the Flora of Tropical Africa (AETFAT), which was held in Harare, Zimbabwe. UGANEB's mission is to coordinate ethnobotanical activities in Uganda, to explore knowledge and practices in this field, and to promote the sustainable use of plant resources
5. Board member of Uganda Agroforestry Development Network (UGADEN), since its inception in 2001. UGADEN is a Voluntary Non-Governmental Organization that brings together institutions and individuals engaged in agroforestry research, training, education and development activities in Uganda. UGADEN was founded in 2001 by agroforestry stakeholders to facilitate the development of agroforestry in Uganda.
6. Member Nature-Uganda (NU), 2003- present. NU is the branch of the East Africa Natural History Society (EANHS) in Uganda. EANHS was set up in 1909 and thus the oldest conservation organization in East Africa. It started as a scientific organization with the primary aim of documenting the diversity of wildlife in East Africa. The then mainly colonial administrators and other professionals used to collect specimens from the wild during their expeditions and deposited them into a collection centre, which later grew to become the present National Museums of Kenya. The Society was registered as a non-profit independent national organization in 1995 with an operational name: Nature-Uganda. During the same period, NU joined the BirdLife International partnership and became the BirdLife partner in Uganda. NU is now the leading membership-based conservation organization in Uganda championing the protection of birds and their habitats.
7. Member of African Forestry Research Network (AFRONET), July 2005- Present. AFORNET supports research in forest science and related areas. Network gives grants to promising African scientists affiliated to training and research institutions in Africa

who have shown the potential to undertake creative and innovative research in forestry in Africa, whether individually or as a team.

8. Member of the African Crop Science Society (ACSS), from 2004- present. ACSS was established in 1993 with overall goal of promoting crop production and food security in Africa. Generally, the activities of the society include: the convening of congresses, symposia, workshops and training courses; publication of the African Crop Science Journal; publication of regular Newsletters; and organizing meetings.
9. Associate Member of African Forest Forum (AFF), September 2009- present. <http://www.afforum.org/content/view/18/60/>. AFF voices the concerns of African forestry stakeholders, and to use science, indigenous knowledge, and experience to advocate for increasing relevance of forests and trees outside forests to peoples' livelihoods, national economies and the stability of the environment.
10. Member of African Technology Policy Studies Network (ATPS)- Uganda Chapter, 2004-present. The ATPS is a trans-disciplinary network of researchers, policymakers, private sector actors and the civil society that promote the generation, dissemination, use and mastery of STI for African development, environmental sustainability and global inclusion. In collaboration with like-minded institutions, ATPS provides platforms for collaborative and innovative policy research to support African governments and STI institutions/stakeholders to build necessary knowledge conditions and infrastructures, policies and incentives, and capabilities for STI knowledge generation, brokerage, circulation, and socialization to ensure effective valorization and commercialization of scientific and indigenous knowledge into new technologies and innovations for sustainable development on the continent.
11. Ex-officio member of African Youth Forum on Science & Technology (AYFST)- Uganda Chapter. The AYFST was initiated by the ATPS in 2005 in collaboration with the Technical Centre for Agricultural and Rural Cooperation – CTA, the Netherlands to provide a platform for African Young Professionals to build capacity in STI policy research, policy dialogue and policy practice. AYFST is a youth-led initiative that seeks to provide a vehicle through which young people can express their ideas, contribute their expertise and collectively participate in policy and decision-making processes as well as harness the opportunities presented by agriculture, science and technology to address their own challenges.
12. Member of Poverty and Economic Policy (PEP) Research Network, 2005- present. PEP visualizes a world in which every country has the local evidence and expertise it needs to make decisions about its own future. It aims at promoting Southern-driven development where policy decisions are informed by high-quality, locally-generated evidence. PEP supports the work of local researchers in developing countries, while strengthening their capacity and promoting their findings worldwide; facilitates engagement and collaborative working between researchers and policymakers at the national level; and brings together researchers from across the globe, creating a space for learning, knowledge-sharing and discussion.
13. Member of Makerere University Academic Staff Association (MUASA). MUASA was founded on 29<sup>th</sup> July, 1975 to consider and promote of matters of academic interest in the University; encourage and maintain academic and professional cooperation and exchange between members of the Association and members of staff in other Universities and other institutions of higher learning; promote productive scholarship and research especially that concerning Uganda and the rest of Africa; advance and

protect the occupational interest of members of the Association in relation to their service to the University; and lastly uphold and protect the principle of democracy as an unalienable right of members of the association.

### **13. Special Interests**

Providing academic leadership and research management; volunteering and community work, and creative writing especially of journal articles and policy briefs.

### **14. Hobbies**

Reading books and novels. My favorite novel is “The Concubine” - by Elechi Amadi, a Nigerian Novelist. This Novel is a masterpiece. I always enjoy the tragic tale of a woman called Ihuoma who's married in the spiritual realm, thus any man who marries her is doomed to ruin from the vengeance of her spiritual husband. Elechi Amadi is so good that all he depicts is convincing, including of course the portrait of charming Ihuoma. He is clearly proud of his culture and wants to tell the reader about it, but refrains from lavishing extended explanations of African life and society that too many novels force on the reader. Rather, Amadi focuses on telling his story purely and directly, and the insights into the village's way of life follow naturally.

My favorite book is “Pissing in the Snow and Other Ozark Folktales” - by Vance Randolph. Randolph is often regarded as the mother and father of folksongs, folktales, and ballad materials. Pissing in the Snow departs from the academic prudery that until recently has restricted the amount of bawdy folklore available for study. When placed in its rightful context alongside Randolph's other collections of folk material, Pissing in the Snow and Other Ozark Folktales help provide evidence of what Ozark hill people think about their own lives and language. The entire body of material in the book offers a picture of expressive behavior unparalleled by any other American region's or group's study. If people could die from laughing, then I would have long been dead. This book is so full of tall-tales that will be make you laugh loudly alone.

My other hobbies are blogging and listening to music especially country music. My favorite artists are: Don Williams (“Lord I hope this day is good”); Alabama (“God must have spent a little more time on you”); Johnny Cash (“I Walk the Line”), and Kenny Rogers (“Twenty Years Ago”).

### **15. Referees**

#### **1. Professor Joseph Obua**

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#### **2. Professor Nelson Turyahabwe (PhD)**

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**3. Professor Adipala Ekwamu**

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Signed:



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