

CURRICULUM VITAE

1.0. BIO DATA:

Surname: Tugume
Other Names: Patience
Nationality: Ugandan
Marital Status: Married
Contact Address: Makerere University
College of Natural Sciences
Department of Plant Sciences, Microbiology &
Biotechnology
P.O Box 7062
Kampala.
Email: patiebeys@gmail.com/patience.tugume@mak.ac.ug
Tel. +256 772 484289/ +256 703 513955

2.0. EDUCATION

2.1 Main Qualifications

SN	Qualification	Year of award	Awarding Body/University
i.	PhD (Botany) Research bias: Economic Botany and Natural Resource Economics	2017	Makerere University, Kampala
ii.	MBA (Accounting & Finance)	2007	Makerere University, Kampala
iii.	MSc (Botany): Major: Plant pathology and Microbiology	1999	Makerere University, Kampala
iv.	B. Sc.(Hons), Botany and Zoology	1996	Makerere University, Kampala
v.	Uganda Advanced Certificate of Education(U.A.C.E)- Physics, Chemistry & Biology (PCB)	1992	Uganda National Examinations Board (UNEB)
vi.	Uganda Certificate of Education (U.C.E)	1988	Uganda National Examinations Board (UNEB)
vii.	Primary Leaving Examination (P.L.E)	1984	Uganda National Examinations Board (UNEB)

2.2 Professional Qualifications

ACCA (Association of Chartered Certified Accountants) – 2001: Glasgow, UK.

3.0 MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

- The Organization for Women in Science for the Developing World (OWSD)
- International Society of Ethnobiologists (ISE)
- Natural Products research for East and Central Africa (NAPRECA)
- Association of Chartered Certified Accountants (ACCA)
- Institute of Certified Public Accountant of Uganda (ICPAU)

4.0 ACADEMIC (TEACHING) AT MAKERERE UNIVERSITY

CURRICULUM VITAE

(a) *Subject Areas of Professional Expertise: Economic Botany/Ethnobotany, Microbiology, Natural Resource Economics and Management*

4.1.1 Position: Lecturer

December 2018 to date: Department of Plant Sciences, Microbiology and Biotechnology, College of Natural Sciences, Makerere University.

Duties

- Teaching undergraduates/supervising special students projects
- Review of curriculum
- Development of new courses
- Preparing and supervising practical classes
- Setting and Marking University exams
- Involved in research activities in the department.
- Examination moderation
- Invigilation of examinations
- Development of reading material for external students

4.1.2 Position: Assistant Lecturer

July 2008 to June 2018: Department of Plant Sciences, Microbiology and Biotechnology, College of Natural Sciences, Makerere University.

Duties

- Teaching undergraduates/supervising special students projects
- Review of curriculum
- Development of new courses
- Preparing and supervising practical classes
- Setting and Marking University exams
- Involved in research activities in the department.
- Examination moderation
- Invigilation of examinations
- Development of reading material for external students

4.1.3 Position: Teaching Assistant 1995-to June 2008: Department of Plant Sciences, Microbiology and Biotechnology, College of Natural Sciences, Makerere University.

Duties

- Teaching undergraduates/supervising special students projects
- Review of curriculum
- Development of new courses
- Preparing and supervising practical classes
- Setting and Marking University exams

CURRICULUM VITAE

- Involved in research activities in the department.
- Examination moderation
- Invigilation of examinations
- Development of reading material for external students

4.1.3 Courses taught

Bachelor of Science Programmes		
Period	Course Code	Course Name
1999- 2011	BOT 109	Introduction to Microbiology
2002-2011	BOT 2204	Basic Bacteriology & Virology
2005-2012	BCB 1208	Parasitology & Microbiology in Wildlife Management
2007- 2012	BOT 305	Soil Microbiology & Plant Pathology
2003 - 2011	BOT 204	Taxonomy, diversity & evolution of Fungi
2009- present	ETB 1104	Introduction to Economics
2009- present	BCB 3109	Eco-Business & Management
2008-2016	ETB 3202	Plant Use and Economic Potential
2009- 2019	ETB 2202	Plant Resource Analysis & Economic Development
2012- 2017	BFA 2205	Fisheries Socioeconomics & Fisheries Management
2013 -2020	ETB 3209	Forest Resource Economics, Policy & Regulations
2014- present	BCB 3201	Resource Valuation & Bio trade
2015- present	BCB 3206	Tourism Development & Management
2015 -2020	BCB 3112	Natural Resource conflict Analysis & Management
2022 to date	ECO1110	Economics for Biologists
2022 to date	BCB1109	Environmental Economics
MSc. Programme		
2011-2013	BOT 7265	Food Microbiology
2022 to date	BOT7241	Ecosystem services and Natural Resource Economics
2019- present	BOT 7210	Natural Resource Conservation and management

4.1.5 Departmental Committees- Department of Plant Sciences, Microbiology & Biotechnology- College of Natural Sciences, Makerere University

- Finance
- Undergraduate fieldwork
- Examination Coordinator
- In Charge of departmental Seminars & Workshops
- Higher degrees Committee
- Doctoral committee of PhD candidates
- Coordinator- Graduate training
- Graduate Research Training Committee representative at the school of Biosciences,

CURRICULUM VITAE

4.2. ACADEMIC WORK- TEAM UNIVERSITY

Position: Director School of Graduate Studies & Research

Period: 2017 to 2022

Duties:

- Overseeing the harmonization of the planning process of the school.
- Monitoring implementation of programs and business targets of the school.
- Monitoring performance of colleagues within the school.
- Periodic review of programs to ensure relevance to the market.
- Facilitating lecturers to clear targets for all training programs to achieve both revenue and academic growth.
- Initiate the process of recruiting staff in the school.
- Convening and chairing school meetings.
- Chairing meetings of research and publications committee.
- Coordinating admissions of students in the school.
- Planning and coordinating annual school teaching requirements.
- Soliciting funding for school activities
- Identifying senior and experienced academics to serve as moderators and external examiners for semester examinations.
- Coordinating the setting, conduct and processing of examinations for various awards.
- Monitoring the quality of teaching, school examinations and tests.
- In addition to the above duties, am involved in lecturing selected courses e.g. Financial management, corporate finance, cost & management accounting

4.2 CONSULTANCY WORK

2001 to 2005: National Consultant- Mycology. Enhancement of coffee quality through the prevention of mould growth Project under FAO and Uganda Coffee Development Authority.

5.0. SCHOLARLY, PEER-REVIEWED SCIENTIFIC PUBLICATIONS

5.1 BOOK CHAPTERS

- i. Godwin, A., Samuel, O., Patience, T., Jamilu, S., & Esezah, K. (2025). Beach Moonflower (*Ipomoea violacea* L. Convolvulaceae). In *Comprehensive Guide to Hallucinogenic Plants* (pp. 101-105). CRC Press.
- ii. Anywar, G., Namukobe, J., **Tugume, P.**, Ssenku, J., Okol, M., & Mulindwa, J. (2024). Biosorption of Volatile Organic Compounds. In *Biosorbents* (pp. 228-248). CRC Press.
- iii. Godwin Anywar, Arthur K. Tugume, Patrick Mucunguzi, Patience Tugume, Jamilu E. Ssenku, Esezah K. Kakudidi & Hannington Oryem-Origa (2024). "12 Building the Future in Training Skilled Basic Scientists in Makerere University: A Case of the Department of Plant Sciences, Microbiology and Biotechnology (PMB)." In Tibasiima,

CURRICULUM VITAE

- Isaac, Helen Byamugisha, Dominica Dipio, Josephine Ahikire, and A. B. K. Kasozi. (Eds) Makerere's Century of Service to East Africa and Beyond, 1922–2022, pp. 247-272. Makerere University Press, 2024.
- iv. Anywar, G., & **Tugume, P.** (2023). *Toxicodendron succedaneum* (Rhus or Wax Tree). In *Exploring Poisonous Plants* (pp. 339-344). CRC Press.
- v. **Tugume, P.**, Ssenku, J. E., & Anywar, G. (2023). *Cuminum cyminum* and Stressful Conditions. In: *Medicinal Plant Responses to Stressful Conditions* (Ed. Latef. A.H.A).CRC press, Taylor & Francis, Boca Raton.
- vi. Anywar G., Ssenku , J.E. & **Tugume, P.**, (2023). *Trigonelle foenum-graceum* and stressful conditions. (Ed. Latef. A.H.A).CRC press, Taylor & Francis, Boca Raton.
- vii. Ssenku, J. E., **Tugume, P.**, & Anywar, G. (2023). *Anethum graveolens* and Stressful Conditions. *Medicinal Plant Responses to Stressful Conditions*, (Ed. Latef. A.H.A).CRC press, Taylor & Francis, Boca Raton.
- viii. **Tugume, P.**, Kamatenesi-Mugisha, M., Bazirake, G. B., Noah, W., & Asiiimwe, S. (2022). The Potency and Efficacy of Essential Oils from Selected Aromatic Crop Species Commercially Grown in Uganda: A Review of their Use in Animal and Human Therapeutics. *Challenges and Advances in Pharmaceutical Research Vol. 4*, 180-204.
- ix. Kakudidi, E., **Tugume, P.**, Asiiimwe, S., & Anywar, G. (2022). Traditional and Modern Health Uses of *Cannabis Sativa* L. in Africa and Its Phytochemical and Pharmacological Profile. In *Cannabis/Marijuana for Healthcare* (pp. 189-210). Springer, Singapore.
- x. Anywar, G., Kakudidi, E., **Tugume, P.**, & Asiiimwe, S. (2022). The Cannabis/Marijuana (*Cannabis sativa* L.) Landscape in Africa: An Overview of its Cultivation and Legal Aspects. *Cannabis/Hemp for Sustainable Agriculture and Materials*, 297.
- xi. Asiiimwe, S., **Tugume, P.**, Kakudidi, E., & Anywar, G. (2022). Potential Impacts of *Cannabis sativa* L. Cultivation on the Environment in Africa: A Review. *Cannabis/Hemp for Sustainable Agriculture and Materials*, 311.
- xii. Asiiimwe, S., Anywar, G. U., Kakudidi, E. K., & **Tugume, P.** (2021). Medicinal Plants in Uganda as Potential Therapeutics against Neurological Disorders. *Medicinal Herbs and Fungi*, 421-443.
- xiii. **Tugume, P.**, Anywar, G., Ojelel, S., & Kakudidi, E.K. (2020) Tamarind (*Tamarindus indica* L.): A review of its use as a spice, a culinary herb and medicinal applications.

CURRICULUM VITAE

In: Atta-ur-Rahman, F.R.S., Choudhary, M.I., & Yousuf, S. (eds). Science of Spices and Culinary herbs, Vol 2, Betham Science Publishers pte Ltd, Singapore.

5.2 PEER REVIEWED PAPERS

- xiv. **Tugume, P.**, Mustafa, A. S., Walusansa, A., Ojelel, S., Nyachwo, E. B., Muhumuza, E., ... & Ssenku, J. E. (2024). Unravelling taboos and cultural beliefs associated with hidden hunger among pregnant and breast-feeding women in Buyende district Eastern Uganda. *Journal of Ethnobiology and Ethnomedicine*, 20(1), 46.
- xv. Gumoshabe, M., Anywar, G., & **Tugume, P.** (2023). Access to provisioning services by local communities from Mpanga central forest reserve in central Uganda. *Frontiers in Forests and Global Change*, 6, 1021664.
- xvi. Akwongo, B., Katuura, E., Nsubuga, A. M., **Tugume, P.**, Andama, M., Anywar, G., ... & Kakudidi, E. K. (2022). Ethnobotanical study of medicinal plants utilized in the management of candidiasis in Northern Uganda. *Tropical Medicine and Health*, 50(1), 1-22.
- xvii. **Tugume, P.**, Kakudidi, E., & Nyakoojo, C (2022). Analysis of the value, visitor expenditure patterns and employment benefits from forest recreation in mabira central forest reserve, Uganda. *Forestry Ideas*, 28, No 1 (63): 215–230
- xviii. Ssenku, J.E., Okurut, S.A., Namuli, A., Kudamba, A., **Tugume, P.**, Matovu, P., Wasige, G., Kafeero, H.M., & Walusansa, A.(2022). Medicinal plant use, conservation, and the associated traditional knowledge in rural communities in Eastern Uganda. *Trop Med Health* 50, 39 <https://doi.org/10.1186/s41182-022-00428-1>
- xix. Anywar, G., **Tugume, P.**, & Kakudidi, E. K. (2021). A review of Aloe species used in traditional medicine in East Africa. *South African Journal of Botany*.
- xx. Mucunguzi, P., **Tugume, P.**, & Ogola, L. (2021). Environmental Management by Faith Based Organizations in Uganda: A SWOT Analysis. *International Journal of Environmental Protection and Policy*, 9(1), 5.
- xxi. **Tugume, P.**, & Nyakoojo, C. (2020). Traditional use of wild edible plants in the communities adjacent to Mabira Central Forest Reserve, Uganda. *Ethnobotany Research & Applications*, 20:15
- xxii. Kaziba, J., & **Tugume, P.** (2020) Effect of financial releases and Social Accountability practices on service delivery in Mayuge Local Government, Uganda. *Journal of Research innovations & Implications in education*, 4(2):119-127.

CURRICULUM VITAE

- xxiii. Mugaiga, K., & **Tugume, P.** (2020). Factors Affecting the Performance of Small And Micro Enterprises In Rukiri Sub-County Ibanda District, Uganda. *International Journal of Advanced Research and Publications*, 4(6):101-108
- xxiv. **Tugume P.**, & Nyakoojo, C. (2019). Ethno-pharmacological survey of herbal remedies used in the treatment of paediatric diseases in Buhunga parish, Rukungiri District, Uganda. *BMC Complementary & Alternative Medicine*. 19.253 <https://doi.org/10.1186/s12906-019-2763-6>.
- xxv. **Tugume, P.**, Buyinza, M., & Kakudidi, E.K. (2019). Creating awareness of the value of Non timber forest products to rural communities around Mabira Central Forest Reserve, Uganda. *Forestry Ideas* 25 No.1(57): 119-135.
- xxvi. Nambejja, C., **Tugume, P.**, Nyakoojo, C., & Kamatgenesi-Mugisha, M. (2019). Medicinal plant species used in the treatment of skin diseases in Katabi Sub-County, Wakiso District, Uganda. *Ethnobotany Research & Applications* 18:20.
- xxvii. **Tugume, P.**, Buyinza, M., & Kakudidi, E.K. (2019). Non-Timber Forest Products Markets: Actors and Income determinants. *Journal of Forestry*, 6:1-19.
- xxviii. **Tugume, P.**, Buyinza, M., Namaalwa, J., Kakudidi, E.K., Mucunguzi, P., Kalema, J., & Kamatenesi, M. (2016). Non timber forest products trade and community livelihoods around Mabira Central Forest Reserve, Uganda. *Journal of Agricultural Studies*, Vol.4 (4): 1-13. Doi :10.5296/jas.V4i4.9482.
- xxix. **Tugume, P.**, Kakudidi, E.K., Buyinza, M., Namaalwa, J., Kamatenesi, M., Mucunguzi, P. & Kalema, J. (2016). Ethnobotanical survey of medicinal plant species used by communities around Mabira Central Forest Reserve, Uganda. *Journal of Ethnobiology and Ethnomedicine*, 12:5 DOI 10.1186/s13002-015-0077-4.
- xxx. **Tugume, P.**, Buyinza, M., Namaalwa, J., Kakudidi, E.K., Mucunguzi, P., Kalema, J., & Kamatenesi, M. (2015). Socio-economic predictors of dependence on Non-timber forest products: lessons from Mabira Central Forest Reserve Communities. *Journal of Agriculture and Environmental Sciences*, Vol. 4, No.2, pp.195-214 DOI:0.15640/jaes.v4n2a23 URL: <http://dx.doi.org/10.15640/jaes.v4n2a23>

5.3 WORKSHOP PROCEEDINGS

Henry Ngabirano, Benon Mugabe, Albertina Kakuba, **Patience Tugume**, Susan Serani, 2001. Mould and Ochratoxin A (OTA) contamination in coffee samples from four

CURRICULUM VITAE

districts in Uganda., Proceedings of 19th International Scientific Colloquim on Coffee, Paris, 2001.

5.4 ACADEMIC TREATISES (THESES) (B.SC, M.SC, PHD)

- i. **Tugume P** (2017) Economic valuation of Non-timber forest products and Recreational values from Mabira CFR, Central Uganda. PhD Thesis, Makerere University, Uganda.
- ii. **Tugume, P** (2007) Tax administration, tax rates and performance of PAYE in Uganda. MBA dissertation, Makerere university
- iii. **Tugume, P.** (1999) Fungi on dried coffee beans and fruits from some districts of Uganda. MSc. Dissertation, Makerere University.
- iv. **Tugume, P** (1996) Morphological, anatomical and palynological characteristics of five genera of family Fabaceae. Special research report. BSc. Project.

6.0. DRAFT MANUSCRIPTS (2023)

- i. Priority & Important medicinal plant species of Uganda.

7.0 SUPERVISION OF GRADUATE AND UNDERGRADUATE STUDENTS

7.1. GRADUATE SUPERVISION

On-going supervision

- i. Ekom Tonny Dickson: Assessment of plant species richness, uses and diversity in rural and urban home gardens in Lira city, Northern Uganda.(MSc. Botany)- Makerere University
- ii. Butono Paul: Predictive distribution and macro ecology modelling of the impact of climate change in selected medicinal plant species in Uganda. (PhD Botany)- Makerere University
- iii. Ssekandi Erias: Oil prospecting: The impact of resettled communities on natural vegetation in Hoima district-Uganda(PhD Botany)-Makerere University
- iv. Ritah Bagaba Atukwatse: Assessing the diversity and distribution of woody species in selected forest fragments along the shores of Lake Victoria. (MSc. Botany).Makerere University
- v. Patricia Nalumansi Anywar: The impact of Hydropower dams on conservation of floristic diversity along the Victoria Nile in Uganda. (PhD Botany)- Makerere University
- vi. Tumuhimbise Mellon: The diversity, distribution, biopesticidal activity and phytochemical composition of selected invasive plant species, from queen elizabeth national park. (PhD Botany)- Makerere University

CURRICULUM VITAE

- vii. Muhumuza Robert: Comparative analysis of energy production from selected food wastes and wood fuel: a case of Mbarara district (MSc. Botany)- Makerere University.
- viii. Namanya Alex: The economic value of Chibumba and Sereri wetlands in murora sub county, Kisoro district, south western Uganda.(MSc. Botany)- Makerere University.

Completed

- ix. Nkuboye Allan (2023). Distribution and characterisation of bean anthracnose pathogen, *Colletotrichum lindemuthianum* in major agro-ecologies of Uganda (MSc. Botany-).
- x. Isout Sylas (2022). Analysis of Common Bean (*Phaseolus vulgaris* L.) Seed and Grain Quality from five major bean-producing districts in Uganda (MSc. Botany)-Makerere University.
- xi. Kyokunda Evelyn Hope (2013). Factors that affect employee job satisfaction in private tertiary institutions in Uganda. A case of Multitech Business School in Kampala District.-Uganda Management Institute. Master in Human Resource Management- Uganda Management Institute.
- xii. Atuhirwe Oliver (2019). Tax administration and tax revenue performance in Local Governments. A case of Kiboga District Local Government, Uganda. MSc. Finance- Team University.
- xiii. Onega Johnson (2019) Accounting information management system and financial reporting of small and medium enterprises (SMEs) in Pakwach town council. MSc. Finance- Team University.
- xiv. Mugaiga Kenneth (2021). Factors Affecting the Performance Of Small And Micro Enterprises In Rukiri Sub-County Ibanda District, Uganda-MSc. Finance- Team University

7.2. UNDERGRADUATE SUPERVISION

Completed supervision

- i. Bachelor of Biotechnology: Kayukiro Gloria (2024).Evaluation of the insecticidal potential of the mixture of *Allium sativum* and *Citrus limon* against *Periplanata americana*.
- ii. Bachelor of Biotechnology: Birungi Mariam(2024). Evaluation of the acute toxicity of *capsicum annum* and *syzygium aromaticum* essential oils on bean weevil
- iii. Bachelor of Biotechnology: Ogwenrot Jerry Bright (2023). Comaprative analysis of the efficacy of different formulation compositions of *Metarhisium anisophaliae* and *Isaria Fumosorosea* on army fallworm.
- iv. Bachelor of Biotechnology: Ssali Topher (2023).Antibacterial activity of aqueous and methanol extracts of *pleurotus ostreatus*.
- v. Bachelor of Biotechnology: Nangonzi Doreen (2022).Assesment of pollution levels of water sources in Katwe and Katanga parishes in Kampala city.

CURRICULUM VITAE

- vi. Bachelor of Biotechnology: Onzima Daniel Negry (2021). In vitro evaluation of allium sativum and Moringa oleifera extracts against Rhizoctonia solani.
- vii. Bachelor of Biotechnology: Liong Judith (2022). Determination and safety of unlicensed herbal preparations used in management of cancer
- viii. BSc. (Conservation Biology) Nakawooya Bashirah (2020), Assessing the public perception of Uganda Wildlife Education Centre (UWEC) contribution to in-situ species conservation.
- ix. BSc.(Conservation Biology) Gumoshabe Memory (2020), The Economic contribution of Mpanga Forest Reserve to the livelihoods of Kamengo Subcounty, Mpigi District.
- x. BSc.(Conservation Biology): Kiplangat Wilson (2019), Contribution of revenue sharing scheme to nature conservation and Households in communities adjacent to Mt. Elgon National park.
- xi. BSc.(Conservation Biology): Agaba Davis (2019), Economic Analysis of GIS map based wildlife souvenirs.
- xii. BSc. (Ethnobotany): Kimbugwe Douglas (2018), Title: Assessing the recreational value of Mpanga Eco-tourism Site.
- xiii. BSc. (Conservation Biology): Ntalo Tonny (2018), Title: Cost -benefit analysis of coffee growing in Mpogo parish, Bukhulo sub county in Sironko district.
- xiv. Bsc. (Ethnobotany): Asimwe Angella (2016), Title: In-vitro evaluation of antibacterial effect of leaf-root extract of *Cassia nigricans*.
- xv. Bachelor of Biotechnology (BBT). Ssebuuma Arnold (2016), Title: The effect of *Warburgia salutaris* leaf extract on human influenza virus
- xvi. Bachelor of Biotechnology (BBT). Nahereza Jethro (2016), title: Bacterial contamination of toast bread in Kikoni area.
- xvii. Bachelor of Biotechnology (BBT). Ssekajugo Edson (2016) , title: Susceptibility of *Escherichia coli* isolates to third generation cephalosporins.
- xviii. BSc. (Conservation Biology). Namusisi Dayana (2012): Title: Payment for Ecosystem services as a road map to conservation and community Development. A case study of Kyabigambire Sub County, Hoima District, Uganda.
- xix. BSc. (Conservation Biology). Musonera Junior Jason (2012) Title: Public-Private Partnership in Natural Resource Management.

CURRICULUM VITAE

- xx. BSc (Ethnobotany), Salirwe Monica (2012) Cost-Benefit Analysis of Plant Nursery Business Operations in Kampala.
- xxi. Viii) Bsc (Ethnobotany), Atuhaire Edigah (2017) Market survey of Ginger in Mukono Central Market.
- xxii. BSc (Ethnobotany), Kakaire Rajab (2017), Title: The value of River Waki to local communities of Buliisa District.

8.0 ACADEMIC DISSERTATIONS' EXAMINATION, TEACHING AND INSTRUCTION (PEDAGOGY)

Examination of Masters (M.Sc) Dissertations

- i. **Akello Lydia (2020/HD13/17414U) MSc. Botany, Makerere University.** Distribution of blight diseases and characterization of Phytophthora infestans of tomato in selected Agro-ecological regions of Uganda.
- ii. **Natoli Robert (121-065043-25084) MSc. Zoology: Islamic Univesity in Uganda.** Toxicology of herbal medication uswed by herbalists to treat gastrointestinal diseases in Sironko district, Eastern Uganda.
- iii. **Abdikarim Salad (122-065043-27714) MSc. Environmental Science: Islamic University in Uganda.** Bacterial contamination of water used for domestic consumption in households in Mbale city, Eastern Uganda.
- iv. **Okello Kenneth (122-065173-264714) MSc. Environmental Science: Islamic University in Uganda.** Anthropogenic activities and surface water quality at River Manafwa, Eastern Uganda.
- v. **Omar mohamud Rage (122-065173-26951) MSc. Environmental Science: Islamic University in Uganda.** The burden of wastes and surface water quality at River Nabuyonga in Mbale district, Eastern Uganda.
- vi. **Bukirwa Nusura (121-065173-24368) MSc. Environmental Science: Islamic University in Uganda.** Exploring traditional maternal healthcare practices: an ethnobotanical survey and conservation study of maternal medicinal plant species in Bukedi sub region, eastern Uganda.
- vii. **Namuege Caroline (120-065173-21901) MSc. Environmental Science: Islamic University in Uganda.** Enablers and consquences of landslide outbreak in Bududa district, Eastern uganda.
- viii. **Chepkurui Nelly Scovia (118-065173-18510) MSc. Environmental Science: Islamic University in Uganda** Non-timber forest products utilization and community livelihoods in Uganda. A case of Kano Central Forest Reserve

CURRICULUM VITAE

- ix. **Kinalwa Nasser (2018/HD13/1785U) MSc-Botany- Makerere University:** Utilization of fungal and bacterial endophytes for the management of the banana nematode *Rodopholus similis* in East African Highland bananas.
- x. **Feni Alone (2011/HD13/2805/U). MSc-Botany- Makerere University:** Incidence of mycotoxin producing fungi and aflatoxins in maize grains and flour in Arua District.
- xi. **Achuu Simon Peter (111-0651-06230), Islamic University in Uganda:** An Assessment of the water stress adaptation capacities of citrus fruit farmers in Ngora District, Uganda.
- xii. **Kateregga Abdul Karim (112-065173-07952), Islamic University in Uganda:** Agroforestry effects on the incidence of coffee stem borers and quality of arabica coffee along slopes of mountain Elgon Eastern Uganda.
- xiii. **Ndyagyenda Catherine:- MSc Finance -Team University:** Credit risk management and financial performance in Bank of Africa (U) Ltd, Kampala, Uganda.
- xiv. **Basudde Enock (17/2/TU/045/MPAW- Team University:** The role of SACCOs in poverty reduction in Ntungamo Municipality: A case study of Kajara peoples cooperative & Credit Society Ltd.
- xv. **Kabanda Jeffrey S. (18/2/TU/007/MBAW)- Team University.** Risk management and financial performance of manufacturing firms in Nakawa division: A case of Crown Beverages Uganda Ltd.
- xvi. **Munyaki David Naluweso (18/8/TU/033/MPAW).Team University.** Budgetary controls and efficiency in Bank of Uganda Mbale branch.
- xvii. **Najjemba Florence (23/8/TU/039/MEPMW).Team University.** School resources availability and teacher retention in UPE schools in Pallisa town council, Pallisa district.
- xviii. **Kakulu Michael (18/2/TU/012/MPAW).Team University.** Risk management and financial performance of manufacturing firms in Nakawa Division: A case of crown beverages Uganda Ltd.
- xix. **Akatwijuka Brian (18/8/TU/004/MBAW).Team University.** Tax structure, tax administration and presumptive tax compliance among selected small enterprises in Mbarara city, Uganda.
- xx. **Atubasise Joseph (18/8/TU/003/MBAW).Team University.** Interest rates and loan repayment in Finance Trust Bank-Katwe branch.
- xxi. **Birungi Miria (18/2/TU/020/MSFW). Team University.** Corporate Social Responsibility and Financial performance in Centenary Bank- Main Branch

CURRICULUM VITAE

- xxii. **Kiwuwa Peter (17/2/TU/024/MPAW).Team University.** Accountability and service delivery in local governments in Uganda: A case study of Kyankwanzi district local government.
- xxiii. **Makhosi Robert Wambele. Team University.** Loan portfolio and performance of savings and credit cooperative organizations (SACCOs) in Bungoko South, Mbale District Uganda.
- xxiv. **Kyomugisha Honest : MPAM- Team University:** Microfinance services and economic empowerment of women in Uganda: A case study of UGAFODE Mbarara Municipality.
- xxv. **Mudiima Richard Charles- MSc Finance- Team University:** Corporate governance and performance of savings and Credit Cooperative Organizations I n Uganda: A case of Wazalenco SACCO.
- xxvi. **Irumba Herbert (17/8/TU/023/MSFW)- Team University:** Effect of budgetary process on financial performance: A Case study of selected SACCOs in Hoima District, Uganda.
- xxvii. **Gimei Abel (17/2/TU/037/MSFW)- Team University:** The contribution of security market to growth of listed companies on the Uganda Securities Exchange.

9.0 OTHER TRAINING

- 9th -13th September 2024:** Effective Graduate Students Supervision Training Course organised by the African Institute for Capacity Development (AICAD) and the Ethical Data Initiative (EDI).
- 20th -26th April 2024:** International Molecular biology Lab training programme by Ghent University & Makerere University, held at the Department of Plant Sciences, microbiology & Biotechnology, Makerere university.
- October 2024:** How to make research findings interesting to the media, policymakers and public' as part of the 'Science Communication for Researchers' series by CABI & SciDev.net.
- October 2024:** Communicating numbers and statistics clearly to the media, policymakers and the public' as part of the 'Science Communication for Researchers' by CABI & SciDev.Net.
- October 2024:**Communicating research on Social media as part of the 'Science Communication for Researchers' by CABI & SciDev.Net.
- 7th- 21st July 2023:** Training of Trainers (ToT) Academic, Professional and Administrative Staff (APAS) workshop. Makerere University.

CURRICULUM VITAE

- 13th - 17th November 2023:** 5th International Training on Ecohydrology in Tanzania: Nature-based and Bankable Nature Solutions for Environmental Sustainability. National Carbon Monitoring Centre, Sokoine University of Agriculture, Morogoro, Tanzania.
- 3 - 7 October 2022:** Summer School: Biodiversity, sustainability and success: the business of bioentrepreneurship. Hotel les Orchidees, Benin. Organised under the ABSbio project implemented by IRGIB-Africa University, Makerere University & Leigzig University.
- 13 January - 15 March 2022:** Climate change adaptation for Food Security and Natural Resource Management by: WCDI, Wagenigen and Makerere University.
- December 2021:** Virtual Hackathon by SciDevNet and Wellcome.
- 7/9/2021 0 1/11/2021: Research and proposal writing skills in the sciences by: AuthorAid and EASTECO.
- December 2021:** Proposal writing with impact (Parts 1 and 2) by: INASP and AuthorAid.
- Sept- November 2021:** Research and Proposal writing skills in Sciences: EASTECO cohort AuthorAid course.
- July 2021:** Strategy Development at entrepreneurship centers at higher education institutions: International SEPT Competence Centre- Universitat Leipzig.
- June 2021:** Developing Entrepreneurial courses at Higher Education Institutions: Institute of Applied Sciences (INES-Ruhengeri), Rwanda & Universitat Leipzig.
- 2nd November to 11th December 2020:** Green Entrepreneurship Massive Online Course (MOOC) offered by The United Nations Development Programme (UNDP), Convention on Biological Diversity, EcoEnterprises Fund, FaithInvest, Fordham University's Gabelli School of Business, Lehigh University, Regional Activity Centre for Sustainable Consumption and Production, SEED, and The GEF Small Grants Programme
- September 16th -27th 2019:** Certificate of Participation: Biodiversity Informatics Training Curriculum on measuring and quantifying ecosystem services and essential biodiversity variables. Co-hosted by University of Oxford & The Centre of Excellence in Biodiversity and Natural Resource Management at University of Rwanda. Funded by JRS Biodiversity Foundation
- October 2018- February 2019:** Certificate of Participation: DIES/CREST online training course for supervisors of doctoral candidates at African Universities- University of Stellenbosch. Organised by CREST- Centre for Research on Evaluation of Science & Technology,
DIES - Dialogue on Innovative Higher Education Strategies, DAAD- German Academic Exchange Service and Federal Ministry for Economic Cooperation & Development.

CURRICULUM VITAE

- May- June 2018:** Certificate of Achievement in Fundamentals of Information Literacy and Access to Global Online Research in Agriculture (AGORA) by Food and Agriculture Organisation (FAO) of the United Nations.
- 2016:** Certificate of Participation in training course in Data Paper Publishing, Makerere University.
- 2015:** Certificate of participation in the Training course on Policy Briefs and PhD citations, Kampala.
- 2015:** Certificate of Participation in training course in Statistical Methods and Computer Applications by Makerere University Directorate of Research and Graduate training.
- 2014:** Certificate of Participation in a training course in Philosophy of methods by Directorate of Research and Graduate Training Makerere University.
- 2014:** Certificate of Participation in a training course in Scholarly writing and communication skills.
- 2014:** Certificate of Participation in Research Management training workshop.
- 2002:** Certificate in Mycotoxin analysis and laboratory management- organized by UIRI/UCDA/FAO.

10.0 WORKSHOPS/CONFERENCES/SYMPOSIA

- i. Organization for Women in Science for the Developing World (OWSD) Early Career Orientation workshop, 15th - 19th April 2024. ICTP campus, Trieste, Italy.
- ii. 1st International conference on Reimagining the Natural Products Industry in Africa (RNPIA- 2021), 5th - 7th July 2021, Imperial Royale Hotel, Kampala, Uganda. Presented poster on: "Traditional therapeutic uses of Aloe spp. in Eastern Africa and their potential for drug discovery"
- iii. Access to Benefit Sharing- Sustainable use of Biodiversity (ABSbio) Training of Trainers course on sustainable entrepreneurship promotion, 28th - 29th January, 2021, Makerere University, Kampala.
- iv. Access to Benefit Sharing- Sustainable use of Biodiversity (ABSbio): Sustainable entrepreneurship workshop, 26th November 2020, Makerere University, Uganda.
- v. 18th Symposium of Natural Products Research for Eastern and Central Africa (NAPRECA), 7-9th December 2019, Heliopolis University, Cairo, Egypt.

CURRICULUM VITAE

- vi. 5th- 9th November 2019: DIES/CREST Alumni Networking workshop on Research and Capacity Development in Doctoral Supervision at African Universities at CREST, Stellenbosch University.
- vii. 3rd- 5th July 2019: Access and Benefit sharing-Sustainable use of Biodiversity symposium at Leipzig University, Germany.
- viii. 1st – 8th August 2016: The 15th International Society of Ethnobiology Congress. Hosted by Makerere University in conjunction with Uganda National Council of Science and Technology and the Buganda Kingdom at Makerere University (Presented two oral papers)
- ix. 3rd Annual National Traditional Medicine Conference. Hosted by World Health Programme, Ministry of Health and THETA. Hosted THETA, Ministry of Health and UNHRO at Hotel Africana, Kampala. (Presented a paper)
- x. 2nd Annual National Traditional Medicine Conference. Hosted by WHO, THETA and Ministry of Education at Hotel Africana. (Participant)
- xi. 1st – 8th November 2002: Science writing workshop. To produce training material for external students at Hotel International Muyenga- Kampala
- xii. 21-25/02/05, Plant Sciences Conference, JICA Building, Faculty of Science, Makerere University.
- xiii. May 2014. Advocacy workshop for Agricultural scientists and professionals, Hotel Intertropics, Kampala.

11.0 SCIENTIFIC PRESENTATIONS

- i. “Traditional therapeutic uses of Aloe spp. in Eastern Africa and their potential for drug discovery. 1st International conference on Reimagining the Natural Products Industry In Africa (RNPIA- 2021), 5th – 7th July 2021, Imperial Royale Hotel, Kampala, Uganda. Presented poster on:
- ii. Traditional use of wild edible plants in villages adjacent Mabira Central Forest Reserve Uganda. 18th Symposium of Natural Products Research for Eastern and Central Africa (NAPRECA), 7-9th December 2019, Heliopolis University, Cairo, Egypt.
- iii. Understanding doctoral student-supervisor relationships at Makerere University DIES/CREST Alumni networking meeting 8th November 2019- Stellenbosch University

CURRICULUM VITAE

- iv. Ethnobotanical survey of medicinal plant species used by communities around Mabira CFR, Uganda. 2nd ATRAMEC conference, August 2015, Hotel Africana, Kampala, Uganda.
- v. The value of non-timber forest products utilized by communities around Mabira CFR, Uganda. 15th ISE Congress, 1st -8th August 2016, 15, Makerere University.
- vi. Non timber forest products utilized by local communities around Mabira CFR, Uganda. 15th ISE Congress, 1st -8th August 2016, 15, Makerere University.

12.0 JOURNAL REVIEWING

- Journal of Biological Diversity
- Journal of Traditional Alternative and Complementary Medicine
- Tropical Medicine & Health
- Catrina
- Ethnobotany Research & Applications

13.0 PRINTED BOOK

Abd-Alla, M.H., & Tugume, P. (2012) Introductory Microbiology. Department of Distance Education. Institute of Adult & Continuing Education, Makerere University, Kampala.

14.0 AWARDS

- 2025: Vice Chancellors Research Excellence Award in recognition of exemplary contribution to the body of knowledge through Scholarly publication at Makerere University at the 75th Graduation Ceremony.
- 2024: Organization for Women in Science for the Developing World (OWSD) Early Career Fellowship Award worth USD 50,000 to implement a project titled: Bioinnovation of Biogas, Bio-fertiliser and Bio-pesticide from Bio-wastes.
- 2023: MAKRIF Round 5 Award amounting to UGX 85,051,000 for project titled: Knowledge, attitudes and conservation of commonly traded Medicinal Plants in a Climate Changing Environment in Eastern Uganda.
- 2015: African Development Bank Higher Education in Science & Technology (AfDB HEST)- PhD Fellowship.
- 1997: Uganda Coffee Development Authority (UCDA)- MSc. Research Funding

15. ADDITIONAL WORK EXPERIENCES AND COMMUNITY SERVICES:

November 2024:

Trained women and youth in biogas production from food waste in Mbarara city. This is an output from the OWSD early career fellowship grant won under the project 'Bioinnovation of biogas, biopesticide and biofertiliser utilising biowaste.'

CURRICULUM VITAE

- Reviewer of international Journals:** Serves(d) as a reviewer of original scientific research articles the following international scientific journals
- Tropical Medicine & Health
 - Catrina
 - Ethnobotany Research & Applications
 - African Journal of Traditional, Complementary & Alternative Medicine.
 - Journal of Biodiversity Conservation
 -
- 20th August 2024 -19th August 2027:** Adjunct Scientist at the African Institute for Capacity Development (AICAD)
- 2021 to date** -External Examiner, Faculty of Science, Islamic University in Uganda (IUIU)
- June 2021 to date:** -Visiting Lecturer: Bishop Stuart University.
- June 2020 - July 2022** -Provided career guidance to vulnerable girls in Northern Uganda under Umbrella of Hope Initiative.
- June 2016 - todate** -Treasurer RADA Microfinance.
- 2019 - March 2022** -Council Member Team University

16: SCIENTIFIC RESEARCH

- Principal Investigator: (2024-2026):** OWSD Early Career Fellowship Award to implement a project titled: Bioinnovation of Bio-gas, Bio-fertiliser and Bio-pesticide from Bio-wastes.
- Principal Investigator: (2024)** MAKRIF project on Knowledge, attitudes and conservation of commonly traded Medicinal Plants in a Climate Changing Environment in Eastern Uganda
- Project Team Member (2019-2022):** Access and Benefit Sharing-Sustainable use of Biodiversity (ABSbio) project at Makerere University coordinated at the Department of Plant Sciences, Microbiology & Biotechnology, in partnership, Inter Regional University of Industrial Engineering Biotechnology and Applied Sciences (IRGB) - Africa University in Benin & Leipzig University in Germany.

CURRICULUM VITAE

Project Team Member:

Essential oil crops commercialization for sustainable Public health products development and rational promotion. Aromatic crops project coordinated by Bishop Stuart University & funded by: The Science Granting Councils Initiative (SGCI) & Uganda National Council of Science & Technology (UNCST).

16.0 CERTIFICATION:

I, the undersigned, certify that to the best of my knowledge that these data correctly describe me, my qualifications and experience.



Signature:

17. REFREES:

1. Associate Professor Arthur Tugume
Dean, School of Biosciences
College of Natural Sciences
Makerere University,
P.O Box 7062
Kampala.
0772514841
Arthur.tugume@mak.ac.ug
2. Prof. Mukadasi Buyinza
Academic Registrar
Makerere University
P.O Box 7062
Kampala.
0774515366
Mukadasi.buyinza@mak.ac.ug