Curriculum Vitae of Associate Professor Twaha Ali Basamba Ateenyi

CONTACT INFORMATION

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Makerere University,

College of Agricultural and Environmental Sciences,

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SKILLS

Can competently use a computer, including GS applications (ILWIS, ARC GIS, ARC INFQ, QGIS, R, IDRIS and GRASS) and statistical analyses using SAS, MSTAT, GSTAT, GENSTAT, MINITAB, SPSS, PADIGRAPH and STATA

- Can independently design and conduct field experiments and research;
- Ability to work in a team with people from diverse cultural, socio and economic backgrounds
- Strong analytical thinking skills and a learning attitude;
- Excellent written and oral communication skills, general writing skills including report writing and office communications
- Excellent interpersonal skills
- Excellent organisational skills
- Problemsolving skills
- Team work and team building skills
- Honest y and Integrit y
- Financial management skills
- Leadership skills
- Reading and comprehensive skills
- Basic arithmetic skills
- Decision making skills
- Communication skills
- Listening and internalizing
- Or at ory skills
- Conflict resolution skills
- Ti me management skills
- Consultation skills
- Multi-tasking skills

EDUCATI ONAL BACKGROUND' ACADEMI C QUALI FI CATI ONS

YEAR	I NSTI TUII ON	AWARD
2000- 2005	Agricultural University of Norway, NLH	Doctor of Philosophy (Ph. D) degree in
	(RENAMED The Norwegian University	Environmental Sciences with a bias to
	of Life Sciences, UMB)	Soil and Water sciences
2001 - 2002	CI AT, COLOMBI A	Certificate in Tropical Soil Phosphorous
		Transformation and Organic Matter
		Dynamics Research
1996-1998	Agricultural University of Norway, NLH	Master of Science (MSc.) Degree in
	(Renamed The Norwegian University of	Management of Natural Resources and
	Life Sciences, UMB)	Sustainable Agriculture
1994-1995	International Institute for Aerospace	Post Graduate Diploma in Soil Survey and
	Survey and Earth Sciences (Renamed	Applications of Soil Information, with a
	International Institute for Geo-	bias to the use of Remote Sensing and
	Information Science and Earth	GIS techniques
	Observation) (ITC), Enschede, The	
	Net herl ands	
1988-1991	Makerere University, Uganda	Bachelor of Science (B Sc.) degree in
		Forestry, Upper Second Class honors
1985-1987	St. Leo's College, Kyegobe, Fort Portal	U A C E (Uganda Advanced Certificate
	Gty, Uganda	of Education)
1981-1984	St. Led's College, Kyegobe, Fort Portal	U C E (Uganda Certificate of Education)
	Gty, Uganda	
1974 – 1980	Kamengo Primary School, Fort Portal	Primary Leaving Certificate, passed in
	Gty, Uganda	grade one (1st grade)

ADVANCED TRAINING PROFESSI ONAL DEVELOPMENT

2019 (June –	National Farmers' Leadership Training	Certificate of Attendance in Farmer
July)	Institute, Kampiringisa, Uganda	Fields Schools Training of
		Facilitators
2018 (March)	Makerere University	Certificate of Attendance in
		Advanced Geo-Spatial Analytics for
		Resource Assessment and Resilience
2017 (Jul y)	Makerere University	Post Graduate Supervision
2016	World Agro-forestry Centre (ICRAF),	Certificate in Meta-Analysis
(Nove mber-	Nairobi, Kenya	
December)		
2016 (June)	Makerere University	Certificate in Climate Change and
		Sust ai nable Devel op ment
2015 (June)	Makerere University	Certificate in Research Management
2014	Makerere University	Certificate in University Teaching
(December)		(Pedagogy)
2014	Makerere University	Certificate in Learner Centered
(November)		Pedagogy and Student Assessment
2010 (June)	Makerere University	Certificate in Ph. D Super vision and
		Me nt or shi p
2009 (Januar y)	Uganda National Council for Science and	Certificate in Competitive Grants
	Technol ogy, Ka mpal a	Proposal Witing
2008	Makerere University	Certificate in End User Training
(November)		Programme in ICT Skills
2007 (Jul y)	Makerere University	Certificate in Research Management
2007 (Januar y)	Makerere University	Certificate in Scholarly and
		Communi cati on Skills
2006	Uganda Martyrs University and Moarara	Certificate in Curriculum
(November)	University of Science and Technology	De vel op ment
2005 (May-	Makerere University	Certificate in Information
July)		Technology (End User Training
		Program)
2003 (Jul y)	Makerere University	Certificate in Advanced Gender
		Research Methodology
2000 (February	Makerere University	Certificate in Gender, Agricultural
- March)		Research and Development

1999 (Oct ober)	Department of Resource Surveys and	Certificate in Data Analysis for
	Re mote Sensing, Nairobi, Kenya	Natural Resource Managementinthe
		tropics
1999 (April)	Makerere University	Certificate in Computer Skills
1999 (March)	Makerere University	Certificate in University Teaching
		(Pedagogy)
1993	Makerere University	Certificate in Soil and Plant Analysis
(February)		

EMPLOYMENT HSTORY

May 2014 – July 2016: Acting Director, Makerere University Fort Portal Campus

Duties and Responsibilities

- ❖ Organise and develop the campus with particular emphasis on the coordination and management of academic programmes, students' affairs and research
- ❖ Provi de acade mic leadership and gui dance to staff and students
- Responsible for the general conduct of examinations at the Campus
- ❖ Coordinate and manage the process of planning and evolution of annual estimates for the Campus, including planning for intake figures and establishments for the various programmes at the Campus
- Solicit for funds for research and general development of the Campus
- ❖ Chair Campus Appoint ments and Promotions Advisory Committees
- ❖ Maintain and be accountable for an up-to-date inventory of all Campus equipment and assets, both movable and immovable
- ❖ Prepare the Campus Annual Leave Roaster for staff
- ❖ Sub mit annual Appraisal Reports on members of staff of the Campus
- Oversee the organization and maintenance of records of past and present students and staff of the campus
- ❖ Participate in the recruitment, selection, promotion and disciplining of Campus staff in accordance with the established procedures of the University
- Assist in the operations of the Campus and the University by serving on Committees and perform such other duties as may be assigned by the Deputy Vice Chancellors for Academic Affairs and Finance and Administration

- ❖ Acquired newtext books for the Campus library (over 400 titles)
- ❖ Acquired new computers for the Campus

- ❖ Convened three workshops; the first one on training needs assess ment for the campus, the second one on pedagogical skills training and the third one on research management for acade mic staff at the campus
- ❖ Initiated processes for launching more acade mic programmes at the Campus
- ❖ Me moranda of Understanding (MOUs) with various institutions in the Rwenzori Region were initiated
- ❖ Recruited more staff at the Campus to boost service delivery through human resource capacity building

September 2011 – April 2014: Coordinator, Makerere University Fort Portal Campus Duties and Responsibilities

- * Reinforce Makerere University partnership with other local, regional and international institutions in terms of acade mic and research service delivery
- ❖ Coordinate and facilitate the exchange of experience and skills between the Makerere University Fort Portal branch and the main branch
- Coordinate and monitor the implementation of all institutional business plans and capacity building activities including organising workshops for both staff and students, internship placement of students etc
- ❖ Preparing annual reports for the branch at the end of each acade mic year
- ❖ Participate in the recruitment of new staff.
- ❖ Effectively manage and coordinate the implementation of strategic plans on behalf of Makerere university
- ❖ Ment oring and training of acade mic staff
- ❖ Publicity of the campus and i mage building
- ❖ Play an effective role in resource mobilization to generate sufficient funds to support the implementation of research and capacity development activities of the campus
- ❖ Institutional financial budgeting
- ❖ Managing institutional funds from government
- Resolving conflicts among staff to create a peaceful working environment
- ❖ Managing institutional infrastructure
- ❖ Writing fundable research and community development projects
- ❖ Managing research funds
- * Representing Fort Portal branch at workshops, conferences and acade mic semi nars

Ac hi eve ments

❖ Carried out several mentorship and capacity building workshops for staff and as a result, there is better performance of students

- ❖ Well managed institutional funds leading to some improvement in infrastructure for the University branch campus, for example the campus acquired 20 new computers that were installed at a small computer laboratory at the campus
- ❖ Created a peaceful and friendly relationship a mong staff and bet ween the staff and students
- ❖ Convened a workshop on dissemination of the findings of a study on training needs assessment for Makerere University Fort Portal campus heldin January 2012 in Fort Portal town, Uganda

August 2012 – to date: Associate Professor, College of Agricultural and Environmental Sciences, Makerere University

Res ponsi bilities

- ❖ Generate research funding and attract post-graduate students (Masters and Ph. D levels)
- ❖ Managing Research funds
- Designing and conducting field experiments
- ❖ Capture, collate and synthesize complex data sets
- ❖ Dat a manage ment
- ❖ Statistical analysis of data resulting from field-based trials
- Supervision and mentoring of both under graduate and post graduate students as well as junior teaching and technical staff
- Peer-reviewing of manuscripts for international journals
- ❖ Mai nt ai ni ng a good publication out put
- ❖ Teaching both undergraduate and postgraduate students of Integrated watershed management, Soil Science, Land use and Management, Forestry, Agriculture, Environmental science, Agricultural and Rural Innovations, Agricultural Engineering Horticulture and Agricultural Extension Education
- * Research
- ❖ Making regular contributions to scientific meetings

- ❖ Continued to supervise and ment or post graduate students (have so far trained more than 40 M. Sc. students and more than 10 Ph. D students)
- ❖ Participated in a number of committee meetings at Makerere University and workshops giving significant contribution
- ❖ Published many papers in international journals of high impact factor
- ❖ Attended a number of workshops and conferences locally (in Uganda) and abroad

2008- July 2012: Senior Lecturer, College of Agricultural and Environmental Sciences, Makerere University

Res ponsi bilities

- ❖ Generating research funding and attracting post-graduate students (Masters and Ph. D levels)
- ❖ Managing Research funds
- ❖ Designing and conducting field experiments
- ❖ Capture, collate and synthesize complex datasets
- ❖ Dat a manage ment
- ❖ Statistical analysis of data resulting from field-based trials
- Supervision and mentoring of both undergraduate and postgraduate students as well as junior teaching staff
- ❖ Mai nt ai ni ng a good publication out put
- ❖ Teaching both undergraduate and postgraduate students of Integrated watershed management, Land use and management, Forestry, Agriculture, Environmental science, Agricultural and Rural Innovations, Agricultural Engineering Horticulture and Agricultural Extension Education. Taught the following courses:
 - Wetl and ecology
 - Irrigation technology
 - Integrated Watershed management
 - Wat er resources management
 - Wat er har vesting technologies
 - Wat er quality assess ment
 - Wat er and societ y
 - Water pollution
 - Research Methods and Scientific Witing
 - Introductory Soil Science

- Geology and Geomorphology
- Soil Fertility
- Soil Science for Agricultural Engineers
- Soil and Environment Protection
- Pedol ogy
- Ecology
- Tropical Production systems
- Land Use planning
- Land Use I mpact Assessment
- Tropical Soils and their Management
- Soil Bology
- Soil Survey and Land Evaluation
- Soil Morphology and Classification
- Soil Ecology
- Soil physics
- Soil che mistry
- Ur ban Environmental Management and Sustainability
- Introduction to soil surveying and mapping
- Soil Organic Matter
- Agr of or estry
- Environmental policy and law
- Environmental health
- Popul ation and development
- Energy conservation and climate change
- Advanced statistics
- Agr ono my and ecol ogy
- Soil conservation and management
- Environmental Education and Communication
- Forest soils
- Fertilizer Technology
- Soil and Plant analysis
- Plant nutrition
- Natural Resource management
- Environmental Protection
- Environmental Management
- Environmental Science

- Sust ai nable Land Management
- Far ming Systems
- Sustainbale Agriculture
- Environmental Education
- Land Administration
- Common Property Management
- Re mot e sensi ng and G S
- Plant physiology
- Plant Science
- Qi mat e change
- Qi mat ol ogy
- Agr ono my
- Soil tillage
- Environmental microbiology
- Soil microbiology
- Land devol pment
- Irri gati on technol ogy
- Modelling environmental phenomena
- For estry econo mics
- For est management
- Conducting and demonstrating both field and laboratory experiemnts related to Soil and water science and Agricultural Production
- Supervision and mentoring of both graduate and post graduate students as well as junior teaching staff
- ❖ Make regular contributions to scientific meetings
- ❖ Curricul um Devel op ment for both under graduate and post graduate programmes

- ❖ Promoted to the acade mic rank of Associate Professor
- ❖ Have won three competitive research grants
- Supervised M Sc. and Ph. D candidates
- ❖ Published many research articles in international peer-reviewed journals
- Successfully implemented all my projects to completion
- ❖ Spear-headed and significantly contributed to the development of new academic programs for the Department and the College. For example, my contribution to curriculum development led to the birth of the BSc. course in Agricultural Land Use and Management

(B Sc. LUM) and the M Sc. in Integrated Watershed management hosted by the Department of Agricultural Production. All these programmes have attracted students and funding to the department and the entire Makerere University at large. They have also attracted staff, thereby providing employment in this country. Many of our graduates from these programmes have had an opportunity to go for further studies in overseas and local universities and have excelled, many have proceeded for MSc. and Ph.D. More to that, many of our graduates from B Sc. LUM have successfully got access to gainful employment in Centenary and other banks as Agricultural loans officers and many are employed in Local Governments, the Uganda Peoples' Defense Forces and Police in Uganda as well as in Local and International NGOs. This demonstrates my significant contribution to human resource development in Africa.

- ❖ Participated in the former Faculty of Agriculture Curriculum Development Process that was concluded with updating of the then Faculty handbook.
- ❖ Was hired as a consultant to write the curriculum for Master of Science in Environmental Science and Management for Ugandan universities by the National Council of Higher Education of Uganda

2007-2010: Acting Head (Chair), Department of Soil Science, Faculty of Agriculture, Makerere University

Res ponsi bilities

- Chairing depart mental meetings
- Overseeing research projects
- ❖ Providing strategic direction of the depart ment
- ❖ Day to day management of the department
- Representing the department at various national and international for a
- Ensuring teaching, learning and community service are done in line with university policy
- ❖ Ensuring security of depart mental equipment and chemicals for teaching and research
- ❖ Managing finances of the depart ment
- ❖ Managing acade mic under graduate and post graduate programmes
- ❖ Curricul um devel op ment
- ❖ Acting as chief examiner of the depart ment

- The department contributed significantly to human resource development for the country
- ❖ The visibility of the depart ment nationally and internationally improved
- ❖ Student enrol ment improved
- Research out puts increased in form of publications in international peer-reviewed journals
- ❖ Many staff enrolled for M Sc. and Ph D programs at Makerere University and abroad

2005-2010: Coordinator of the Bachelor of Science Degree Programme in Agricultural Land Use and Management (B. Sc. LUM) of the Department of Soil Science of Makerere University Responsibilities

- Ensuring that the program is widely advertised nationally and internationally
- ❖ Making sure that students are taught effectively throughout the semester
- ❖ Mai nt ai ni ng an up to date dat a base of students
- Supervision of internships and research projects for the undergraduate students
- ❖ Preparing time tables for lectures per semester
- Gui di ng and counseli ng students

Ac hi eve ments

- ❖ Many students joined the Ugandan work force in the field of land use and management
- So me students' research reports were published as papers in conference proceedings
- ❖ Many of the students enrolled for M. Sc. And Ph. D. degrees after this B. Sc.
- ❖ The program became popular, especially for Ugandan students

2005: Coordinator of the Practical Skills Training Recess Term, Faculty of Agriculture, Makerere University

Res ponsi bilities

- Ensuring that a time table is drawn for the recess term
- ❖ Managing examinations and other for ms of assessments during and after the recess term
- Ensuring that lecturers carry out the training as planned on the time tables
- ❖ Arranging for transport of staff and students during the recess term

Ac hi eve ments

- ❖ Students acquired practical skills in the field of agriculture and environmental management
- Government appreciated the importance of the exercise and committed more funds
- ❖ Local far mers participated inteaching the students based on their practical experience
- ❖ Students appreciated most of the theory subjects taught previously

1992-2004: Assistant Lecturer- Lecturer, Department of Soil Science, Makerere University

Res ponsi bilities

- ❖ Teaching under graduate students
- Conducting and demonstrating both field and laboratory experiemnts related to Soil and water Science and Agricultural Production
- * Research

- ❖ Exa ming students
- ❖ Lobbying for research funds

PROFESSI ONAL AFFI LI ATI ONS (MEMBERS HIP TO PROFESSI ONAL BODI ES)

- ❖ Member, Makerere University Academic Staff Association (MUASA)
- * Me mber, Uganda Forestry Association (UFA)
- ❖ Me mber, Soil Science Society of East Africa (SSSEA)
- ❖ Me mber, Soil and Water Conservation Society of Uganda (SWCSU)
- ❖ Me mber, Association of Uganda Professional Agriculturalists (ASUPA)
- ❖ Me mber, Makerere University Convocation (MUC)
- Fellow Uganda National Acade my of Sciences
- Reviewer on several international journals

SERVI CE TO THE UNI VERSI TY AND THE COMMUNI TY

- ❖ Advisor, Makerere University Land Managers Association (MULMA)
- ❖ Advisor, St. Led's College, Kyegobe Old Boys Association
- ❖ Me mber/Advisor, Kitumba Moslem Community, Fort-Portal, Kabarole District
- ❖ Advisor, Kamengo Primary School Management Committee, Fort Portal, Kabarole District
- ❖ Me mber, St. Leo's College, Kyegobe Board of Covernors (2010-2016)
- ❖ Chairperson, Academic Committee, St. Leo's College, Kyegobe Board of Governors (2010-2016)
- ❖ Vi ce-President, St. Leo's College, Kyegobe Old Boys Association (2010-2016)
- ❖ Patron, AGRIFORVET (Agriculture, Forestry and Veterinary Sciences) Muslim brotherhood, Makerere University
- ❖ Co-opted advisor, Kabarole Far mers' Association
- ❖ Served and still serving as External Examiner for Mountains of the Moon University School of Applied Sciences and Technology (2013-2014 Academic Year and 2015/2016 − 2018/2019 Academic Years).
- ❖ I have acted as internal examiner for many postgraduate candidates both at Makerere, Mountains of the Moon and Kampala International universities for many years.
- ❖ I have acted as external examiner for many M.Sc. and Ph.D. candidates from other Universities
- ❖ I have vetted applications for many colleagues for acade mic promotions both at Makerere and other Universities since 2012.
- ❖ I served as Vice-Secretary for Makerere University Academic Staff Association (MUASA) for the period 2009-2011.
- ❖ M nister of Education, Tooro Kingdom (2013-2015)

- ❖ Member, appointments and promotions committee of the Department of Agricultural Production, Makerere University
- ❖ Me mber, College of agricultural and Environmental science examiners' board
- ❖ Me mber, Finance committee, Department of Agricultural Production, Makerere University
- ❖ Me mber, higher degrees and research committee, Department of Agricultural Production, Makerere University
- ❖ Me mber, under graduate programmes committee, Department of Agricultural Production, Makerere University
- ❖ Member, curriculum review committee, Department of Agricultural production, Makerere University
- ❖ Member, disciplinary committee, Department of Agricultural Production, Makerere University
- ❖ Me mber, Makerere University Moslem Academic staff association
- ❖ Me mber, Akright community self-help committee, Kampala
- ❖ Me mber, rotary club, Fort Portal city

RESEARCH GRANTS AND PROJECTS

- 2007 2014: Enhancing community initiatives in managing urban land use, environment and employment creation in the Lake Victoria Basin: The case of Mwanza, Kisumu and Jinja. Sponsored by Vic Res/Sida (\$150,000).
- 2007 2009: The impact of an Environmental Disamenity on the Value of Land in Central Uganda. Sponsored by CEEPA, Centre for Environmental Economics Policy for Africa, University of Pretoria, South Africa (\$10,000).
- 2007 2012: Enhancing adoption of Agroforestry technologies in Eastern Uganda. Supported by NARO Uganda (\$100,000).
- 2009-2014: Building capacity for soil health research and development in Uganda: Atraining grant to Makerere University. Sponsored by AGRA (\$507,00) (Co-researcher on project).
- 2016 2019: **PEER Cycle 5 Grant (Approved early September 2016):** Delivering crop yield no weasts and forecasts by integrating satellite data and crop modeling in Sub-Saharan Africa. Supported by PEER/ US AI D (\$300,000).

- 2019-2020: Developing Bio-fertilizer for mulations to unlock crop productivity for improved food security and household livelihoods in Uganda. Supported by Government of Uganda (\$50,000).
- 2019-2022: Securing Water Supplies Participatory Groundwater Monitoring and Management in Bots wana and Uganda. Sponsored by Australia Africa Universities Net work (AAUN) (\$10,00)
- 2020-2021: Development of a problem-centered teaching and learning approach using the Teach-Think-Pair-Share model for increased skilling of Agricultural students in Uganda. Sponsored by US AID (\$20,000).
- 2021-2023: Building Soil Loss Tolerance Thresholds To Reduce Degradation and Enhance Agricultural Productivity in Marginal Highland Landscapes of Uganda (RIF3). Sponsored by the Government of Uganda (\$50,000)
- 2021-2026: Cli mate Smart Agriculture in Sub-Saharan Africa. Sponsored by NORAD (USD 2,000,000).. Multi-institutional Project with Makerere University and other African Universities/ Norwegian University of Life Science (Co-PI)
- 2023-2027: Nature-based Solutions for Cli mate-Resilient Tea Production in Uganda (NoS4Tea). Sponsored by the DANI DA.... A multi Institutional Project of Arhaas University, Makerere University and NARO (\$1,500,000) (Co-PI)
- ALL THESE GRANTS INCLUDE A COMPONENT OF GRADUATE TRAINNING AND MENTORING

WORKS HOPS AND CONFERENCES ATTENDED

- 2nd 13th February, 1993: Participated in the Kawanda Agricultural Research Station/Kenya Agricultural Research Institute/Makerere University/Tropical Soil Blology and Fertility Programme/Manpower for Agricultural Development/International Institute of tropical Agriculture collaborative workshop on Soil and Plant Analysis at Kawanda Agricultural Research Station, Uganda.
- 24^h 27^h May, 1993: Participated in the 6^h Regional IBSRAM Seminar on Management of Acid Soils and Land Development for Sustainable Agriculture at the Kampala International Conference Centre (Presently Serena Hotel) Uganda.

- 5^h 6^h May, 1999: Participated in the Soil Fertility Management Workshop at Cardinal Nsubuga Leadership Training Centre, Nsambya Kampala, Uganda.
- 12th 14th January, 2009: Attended a Uganda National Council of Science and Technology-sponsored workshop on Grants Proposal development and Competitive grants Proposal Witing at Colline Hotel, Mikono, Uganda.
- $14^{h} 15^{h}$ September, 2009: Attended a workshop on Ph. D rules and regulations and student tracking system at the Faculty of Forestry Conference Hall, Makerere University, Kampala, Uganda.
- 9th- 13th October, 2011: Attended a Lake Victoria (VicRes)-sponsored Hiennial Forum at Common wealth Speke Resort, Manyonyo in Uganda.
- 30th October 2nd November, 2011: Attended a Lake Victoria (VicRes)-sponsored Land Use Options and Natural Resource management Clusters' workshop held at Methodist Guest House in Nairobi, Kenya, at which a Scientific paper was presented.
- $20^{th} 21^{st}$ April, 2015: Attended the Makerere University International Research and Innovations Dissemination Conference at Hotel Africana, Kampala, Uganda.
- 23rd July 2015: Attended a one day workshop/retreat for Makerere University Management, Principals, Deputy Principals, Deans and Directors of academic units at the School of Public Health, College of Health Sciences, Upper Kololo Terrace, Plot 30, Kampala, Uganda.
- 2nd May 2016: Attended a Workshop of the DELP project (Distance Education Leapfrogging Project) and Chaired a Session at Makerere University Food Science and Technology whose them was 'Utilizing Emerging Educational Technologies to Leapfrog Distance Learning', sponsored by NORAD' University of Agder, Norway.
- 24th 29th April, 2017: Attended the Pwani University/International Institute for Rural Reconstruction/UN FAO Far mer Field Schools curriculum development writeshop at Watamu, Turtle Hotel, Klifi County, Kenya.
- 19th-24th November 2017: Attended an International Conference on Ecosytem Resilience and Agricultural Productivity: Livelihood Pathways under variable and changing climate in Sub-

Saharan Africa where I presented a paper and chaired two break-away sessions at Speke Resort Hotel, Minyonyo in Kampala, Uganda.

15^h -25^h April, 2018: Attended a workshop on Institutionalization of farmer Field Schools in Agricultural Extension delivery systems and higher institutions of learning in Eastern Africa at Colline Hotel, Mikono, Uganda.

5^h - 7^h June, 2019: Attend and a presented a paper on research and writing skills at the First great lakes and Catchment Management Conference (1st GLACAM) International Conference whose the me was 'Protecting water and land resources in Africa for di mate change adaptation and improved liveli hoods' at The Water Resources Institute, Entebbe, Uganda.

28th October – 1st November, 2019: Attended the Agricultural Climate Resilience Enhancement Initiative (ACREI) writeshop at Ngong Hlls Hotel in Nairobi where a Climate Change Adaptation training Manual was produced (now online).

 $19^{\text{th}} - 21^{\text{st}}$ November, 2019: Attended a UN FAO Sub-regional Office for Eastern Africa Farmer Field Schools Monitoring Evaluation and Learning Framework Workshop in Addis Ababa, Getfam Hotel, Ethiopia.

PUBLI CATI ONS

REFEREED JOURNALS

- 1. **Basamba, T.A.**, Barrios, E., Amézquita, E., Rao, I. M. and Singh, B.R. **2006**. Tillage Effects on Maize Yield in a Colombian Savanna Oxisol: Soil Organic Matter and P. Fractions. Soil and Tillage Research 91(1/2), 131-142.
- 2. **Basamba, T.A.**, Barrios, E, Singh BR and Rao, I. M. 2007. Impact of Planted Fallows and a Grop Rotation on Nitrogen Mineralization and Phosphorus and Organic Matter Fractions on a Colombian Volcanic-ash Soil. Nutrient Cycling in Agro-ecosystems 77 (2), 127-141.

- 3. **Basamba, TA**, Amézquita, E, Singh, BR and Rao, I. M. **2006**. Effects of Tillage Systems on Soil Physical Properties, Root Distribution and Maize Yield on a Colombian acid-savanna Oxisol. Acta Agriculturae Scandinavica, Section B-Soil and Plant Science 56 (4), 255-262.
- 4. **Basamba, T. A.**, Barrios, E., Singh, B. R. and Rao, I. M. **2008.** Influence of Planted Fallows and Manure Application on Soil Quality and Maize Yields on a Colombian Volcanic-Ash Soil. Journal of Sustainable Agriculture 32 (1), 1-35.
- 5. **Basamba**, **T** A, Kiiza, B, Mayanja, C, Nakileza, B, Matsiko, F, Nyende, P. and Kukunda, E B **2012** Linking Markets to Smallholder Agroforestry Farmers as a Strategy for Poverty Alleviation in the Tropics. Journal of Agricultural Science and Technology B 2 (3), 329-338.
- 6. **Basamba, T. A.**, Sekabira, K., Kayombo, C. M. and Ssegawa, P. **2013**. Application of Factor and Cluster Analyses in the Assessment of Sources of Contaminants in Borehole Water in Tanzania. Polish Journal of Environmental Studies 22 (2), 337-346.
- 7. Sekabira, K, Oryem Origa, H, **Basamba**, **T** A, Mutumba, G and Kakudidi, E **2011**. Application of Algae in Biomonitoring and Pyto-extraction of Heavy Metals Contamination in Urban Stream Water. International Journal of Environmental Science and Technology 8 (1), 115-128.
- 8. Sekabira, K, Oryem-Origa, H, **Basamba, T. A**, Mittumba G and Kakudidi, E **2010**. Heavy Metal Assessment and Water Quality Values in Urban Streamand Rain Water. International Journal of Environmental Science and Technology 7 (4), 759-770.
 - 9. Sekabira, K, Oryem Origa, H, **Basamba**, **TA**, Mutumba, G and Kakudidi, E **2010**. Assessment of Heavy Metal Pollution in the Urban Stream Sediments and Its Tributaries. International Journal of Environmental Science and Technology 7 (3), 435-446.
 - 10. Sekabira, K, Oryem-Origa, H, Mutumba, G, Kakudidi, E and Basamba, T. A 2011. Heavy Metal Phyto-remediation by *Commelina benghalensis* (L) and *Cynodon doctyl on* (L) Growing in Urban Stream Sediments. International Journal of Plant Physiology and Plochemistry 3 (8), 133-142.

- 11. Isoto, R.E., Bashaasha, B., **Basamba, T.A.** and Mouru, J. **2011**. The Impact of an Environmental Disamenity on Land Values: Case of Kiteezi Landfill in Uganda. International Journal of Environmental Engineering 3 (3/4), 371-387.
- 12. Musi nguzi, P, Ebanyat, P., Tenywa, J. S, Basamba, T. A, Tenywa, M. M. and Mubiru, D. N. 2016. Gitical Soil Organic Carbon Range for Optimal Grop Response to Mineral Fertilizer Ntrogen on a Ferral sol. Experimental Agriculture (online) doi: 10.1017/S0014479715000307, Cambridge University Press, 19p.
- 13. Musi nguzi, P, Ebanyat, P., Tenywa, J. S, Mwanjal olo, M, **Basamba, TA**, Tenywa, M M and Porter, C **2014**. Usi ng DSSAT-CENTURY Model to Si mulate Soil Organic Carbon Dynamics Under a Low-Input Maize Gropping System Journal of Agricultural Science 6 (5), 120-131.
- 14. Musinguzi, P, Tenywa, J. S, Ebanyat, P, Basamba, T. A, Tenywa, MM, Mubiru, D. N. and Zinn, Y. 2015. Soil Organic Fractions in Cultivated and Uncultivated Ferralsols in Uganda. Geoder ma Regional 4, 108-113.
- 15. Musi nguzi, P., Tenywa, J. S., Ebanyat, P., Tenywa, M.M., Mubiru, D.N., Basamba, T. A. and Leip, A 2013. Soil Organic Carbon Thresholds and Ntrogen Management in Tropical Agro-ecosystems: Concepts and Prospects. Journal of Sustainable Development 6 (12), 31-43.
- 16. **Basamba, TA**, Tukezibwa, D, Tumushabe, A and Ssekabira, K **2016**. Impacts of Pastoral Activities on Nature Conservation in Western Uganda. International Journal of Ecological Science and Environmental Engineering 3 (2), 42-51.
- 17. **Bas a mba, T.A.**, Okurut, S.P., Wasi ge, J., Tu mushabe, A and Ssekabira, K. **2016**. Carbon Sequestration for Enhanced Soil Quality in the Lake Victoria Grescent of East Africa. International Journal of Ecological Science and Environmental Engineering 3 (1), 32-36.
- 18. **Basamba, T.A.**, Mayanja, C., Kiiza, B., Nakileza, B., Matsiko, F., Nyende, P., Kukunda, E.B., Tumushabe, A and Ssekabira, K. **2016**. Enhancing Adoption of Agroforestry in the Eastern Agro-Ecological Zone of Uganda. International Journal of Ecological Science and Environmental Engineering 3 (1), 20-31.

- 19. Ahu muza, B, **Basamba, TA**, Van Asten, P. and Tushe mereir we, W K **2015**. Physiological Nutrient Use Efficiency of Banana Hybrids Across Agro-Ecological Regions in Uganda. African Journal of Plant Science 9 (2), 97-105.
- 20. Musi nguzi, P., Ebanyat, P., Teny wa, J. S., Basamba, T. A., Teny wa, M. M. and Mubiru, D. 2015. Precision of Farmer-Based Fertility Ratings and Soil Organic Carbon for Grop Production on a Ferral sol. Solid Earth 6 (3), 1063-1073.
- 21. Na mug wanya, M, Teny wa, J. S, Orabbong, E, Mibiru, D N and **Basa mba, T A**2014. Development of Common Bean (*Phaseol us vul garis* L) Production Under Low Soil Phosphorus and Drought in Sub-Saharan Africa: A Review Journal of Sustainable Development 7 (5), 128-139.
- 22. Na mug wanya, M, Teny wa, J. S, Orabbong E and Basamba, T. A. 2016. Root Architectural Development and Yield Sensitivity of Phosphorus Tolerant Common Bean Under Low Soil Phosphorus and Drought. International Journal of Plant and Soil Science 9 (3), 1-10.
- 23. Nansamba, A, Kaizzi, C K, **Basamba**, **T A**, Ebanyat, P. and Wort mann, C S. **2016**. Grain Sorghum Response to Reduced Tillage, Rotation and Soil Fertility Management in Uganda. Agronomy Journal 108 (5), 1-10.
- 24. Musinguzi, D, Tumushabe, A, Sekabira, K, **Basamba, T** A and Byarugaba, D **2017**. Medicinal plants in and around Kalinzu Central Forest Reserve, Western Uganda. Journal of Medicinal Plants Studies 5 (6), 44-49.
- 25. Muzira, R, **Basamba, T.** and Tenywa, J. S. **2018**. Assessment of Soil Nutients Limiting Sustainable Potato Production in the Hghlands of South-Western Uganda. Open Access Library Journal, 5: e4440. https://doi.org/10.4236/oalib.1104440.
- 26. Ruley, J. A, Amoding, A Tumuhair we, J. B, Basamba, T. A and Oryem Origa, H 2017. Hydro carbons in crude oil production sites of the Sudd region, South Sudan: Implication on soil fertility and plant species risk. International Journal of Current Research 9(12), 63070-63075.

- 27. Nya mai zi, S, O upot, G, Tu muhe, C L, **Bas amba, T A** and Musi nguzi, J. **2018**. I mpact of Toposequence and Type of G opping System on Soil Properties in MId-Western Uganda. International Journal of Advanced Technology and Innovation Research 10 (7), 808-815.
- 28. Muzira, R, Tenywa, J. S and **Basamba, T 2018**. Linking Soil Conservation in Potato Production Systems in the Highlands of South Western Uganda to Gender and far mer Markets. Open Access Library Journal, 5: e4422. https://doi: 10.4236/oalib.1104422.
- 29. Kyakuwaire, M, Oupot, G, Amoding, A, Nkedi-Kizza, P. and Basamba, T. A 2019. How safe is chicken litter for land application as an organic fertilizer?: A review International Journal of Environmental Research and Public Health (Basel, Switzerland) 16, 3521-3544; doi: 10.3390/ijerph16193521; www.mdpi.com/journal/ijerph
 - 30. O upot, G, **Basamba**, **T** A, Ebanyat, P, Musinguzi, P, Opol ot, E, Katusabe, A A, Bekunda, M A and Singh, B R **2020**. Making sense out of soil nutrient mining and depletion in sub-Saharan Africa. In: Lal, R and Stewart, B A (Eds.), Advances in soil science, CRC press, Boca Raton, Chapter 3, pp 39-57.

BOOKS/ BOOK CHAPTERS

- 1. Sekabira, K, Oryem-Origa, H, **Basamba**, **TA**, Mutumba, G and Kakudidi, E **2012**. Grain Size and Source Apportionment of Heavy Metals in Urban Stream Sediments, Chapter 4, pp 69-88. In Balkis, N (Ed). Water Pollution In Tech, 202p. ISBN 978-953-307-962-2, www.intechopen.com
- 2. Muzira, R, Vanlauwe, B, **Basamba**, **TA**, Rwakaikara, SM and Wanjiku, C **2014**. Assessing the Influence of Farmers' Field Schools and Market Links on Investments in Soil Fertility Management Under Potato Production in Uganda. Book Chapter 22 (pp 281-294). In Vanlauwe, B, Het Van Asten and Homme, C (eds.). Challenges and Opportunities for Agricultural Intensification of the Humid Highland Systems of Sub-

Saharan Africa, DOI: 10.1007/978-3-319-07662-1_22, © Springer International Publishing Switzerland 2014. Print ISBN 978-3-319-07661-4.

- 3. Muzira, R, Vanlauwe, B, Rwakaikara, S M, **Basamba**, **T A**, Chianu, J. and Farrow, A **2011**. Variation in Socio-Economic Characteristics and Natural Resource Management in Communities with Different Potato Market Linkages in the Highlands of South Western Uganda. In: Batrono et al. (eds), Innovations as Key to the Green Revolution in Africa. DOI: 10.1007/978 90 481 2543-2_101, © Springer Science + Business Media B V. 2011 (pp 999-1008).
- 4. Muzira, R, Rwakaikara, S. M, Basamba, T. A., Vanlauwe, B, Tittonell, P. and Sanginga, P. C. 2007. Socio-Economic Characterization of Communities with Different Potato Market Linkages in the Highlands of South Western Uganda. In: Bationo, A, Okeyo, J. M, Waswa, B.S., Mapfumo, P., Maina, F, Kihara, J. (eds.). Innovations as Keytothe Green Revolution in Africa: Exploring the Scientific Facts, 161p.
- 5. Muzira, R, Rwakaikara, S. M, Basamba, T. A, Vanlauwe, B, Tittonell, P. and Sanginga, P. C. 2007. Impact of Different Market Types on Investment in Soil Management Technologies. In: Bationo, A, Okeyo, J. M, Waswa, B.S., Mapfumo, P., Maina, F., Kihara, J. (eds.). Innovations as Key to the Green Revolution in Africa: Exploring the Scientific Facts, 164p.
- 6. Bas a mba et al. 2019. Introduction to far mer field schools: a reader for Instructors of higher learning. User for instructors and Students. Available on https://www.fao.org.ISBN 978-92-5-131318 (FAO).

Ph. D SUPERVISIONS

- 1. **Kassi m Ssekabira** (**Registration Number 2006/HD13/4747 U).** Heavy metal pollution in Urban drainage systems and wetlands of Nakivubo ecosystems in Kampala, Uganda (Graduated in 2012) (Makerere University).
- 2. Partrick Musinguzi (Registration Number 2008/ HD02/4938 U). Gitical soil organic carbon for optimal crop response to Ntrogen in a Ferral sol (Graduated in 2018) (Makerere University).

- 3. Ssenku Edrisa Jamilu (Registration Number 28/04/2012). Phyto-remediation of acid mine waste polluted and degraded habitats in Kasese District by selected tree species (graduated in 2016) (Makerere University).
- 4. Robert Muzira (Registration Number 2006/HD13/4747U). Market linkage enhancement for increased adoption of soil fertility management in potato production systems in south-western Uganda (Thesis is already officially cleared and submitted for examination as of July 2020) (Makerere University).
- 5. Al exander Noah Ruley (Registration Number 2014/ HD02/18653 X). Bo-re mediation of petroleum contaminated soil using native plants and their rhizobacteria in the Sudd region of South Sudan (Thesis submitted for examination, 2020) (Makerere University).
- 6. Margaret Namugwanya (Registration Number 2010/HD02/18244U). Agronomic performance and adaptive mechanisms to drought for low phosphorus tolerant common beans (Thesis submitted for examination, 2020) (Makerere University).
- 7. Na byonga Lydia (Registration Number 2017/HD13/19289 U). Unlocking the potential of Azolla for improving nutrient use efficiency and food productivity through nanotechnology approaches in Uganda (Student collecting thesis field data, 2020) (Makerere University).
- 8. Mukengere Bagula Espoir (Registration Number 2015/HD13/4747U). Enhancing water use efficiency under selected soil and water conservation practices and impact assessment of climate change in Ruzizi catchment, eastern Democratic Republic of Congo (Student currently collecting thesis data in the field, 2020) (Makerere University).
- 9. Ek wangu Joseph (Registration Number 2018-PH41-1005). Agro-ecological enhancement of soil carbon sequestration for improved finger millet (*El euci ne coracana* L. Chertn) productivity in the Teso farming system, Eastern Uganda (Student collecting thesis field data, 2020) (Uganda Matyrs University, Nkozi).

THESES AND PRESENTATIONS

1: THESES

Basamba, TA 2004. Effects of Planted Fallows and Tillage Practices on Organic Matter Fractions, Nutrient Availability and Maize Yield in Colombian Soils (A Ph. D. Dissertation, Norwegian University of Life Sciences, UMB, Department of Plant and Environmental Sciences; ISBN 82 - 575 - 0634 - 6, ISSN 0802 - 3220).

Basamba, T. A. 1998. Changes in Soil Quality Under Different Land Uses of Formerly Natural Forest Soils: A case study of Mabira Forest Reserve, Makono District, Uganda. (An M.Sc. Dissertation, Norwegian University of Life Sciences, UMB).

Basamba, **TA 1995**. A Semi-Detailed Soil Survey of the Mate Tae area, Chiang Mai Province, Thailand (A Special Report for award of ITC Post graduate Diploma, The Netherlands)

Basamba, TA 1991. The effect of Sesbania sesban and Leucaena leucocephala on Soil Properties at Kyembogo District FarmInstitute, Kabarole District (ABSc. Special Project Dissertation, Makerere University)

Basamba, TA 1991. A revised work plan for Nyabyeya Forest Reserve for the period 1991-2000, Masindi District, Western Uganda (A Case Study Report, Makerere University).

PRESENTATI ONS

Basamba, TA 2005. Rhizosphere Effects on Phosphorus and Potassium Uptake by Plants. Trial Lecture Delivered During Defence of the Ph. D. Environmental Science of the Norwegian University of Life Sciences, UMB (25th February, 2005).

Basamba, **TA 2003**. The Role of Arbuscular Mycorrhizal Fungiin the Phosphate Uptake of Plants (A Paper Presented in Partial Fulfill ment of the Requirements for Award of a Doctor of Philosophy Degree in Environmental Science at the Department of Plant and Environmental Sciences of the Norwegian University of Life Sciences, UMB).

Basamba, TA 2001. Genesis, Characteristics, Management and Use of Highly Weathered Variable Charge Tropical Soils: The Case of Oxisols (A Paper Presented in Partial Fulfill ment of the Requirements for Award of a Doctor of Philosophy Degree in Environmental Science at the Department of Plant and Environmental Sciences of the Norwegian University of Life sciences, UMB).

Basamba, **TA 1996**. Uganda Environment: Wétland Conservation (A Paper Presented in partial fulfill ment of the Requirements for award of a Master of Science degree in Management of Natural Resources and Sustainable Agriculture of the Norwegian University of Life Sciences, UMB)

Basamba, **TA** 1996. Agroforestry for Effective Environment Conservation, Development and Sustainable Agriculture in Uganda (A Paper Presented in Partial Fulfill ment of the Requirements for Award of a Master of Science Degree in Management of Natural Resources and Sustainable Agriculture of the Norwegian University of Life Sciences, UMB)

Basamba, T. A., Serugga, D., Agaya, B. and Burra, M. 2011. Community Initiatives in Improving the Environment of Urban Informal Settlements in Jinja Municipality in Uganda; A Paper Presented at the Lake Victoria (Vic Res)-sponsored Land Use Options and Natural Resource Management Clusters' workshop held at Methodist Guest House in Nairobi, Kenya, 30th October - 2nd November, 2011.

JOURNAL ARTI CLES IN PRESS (CURRENTLY 10 IN PRESS)

POST GRADUATE COURSES TAUGHT (2005 TO DATE)

- 1. SOS 7103 Soil Organic Matter (M. Sc. Course)
- 2. SOS 7204 Land Degradation and Conservation (M. Sc. Course)
- 3. SOS 7205 Soil Survey and Land Evaluation (M. Sc. Course)
- 4. I WM 7214 Policy, Laws and Institutions for Watershed Management (M. Sc. Course)
- 5. FBM7102 Advanced Forest Soils (M Sc. Course)
- 6. SOS 7106 Pedol ogy and Geo mor phol ogy (M. Sc. Course)
- 7. I WM 7216 Watershed Evaluation Project (M. Sc. Course)

COUNTRIES VISITED ON OFFICIAL MISSIONS

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Asi a

Thail and, India, Malaysia

LANGUAGE SKILLS

English	Huent
Swahili	H uent
French	Medium
Spanish	Medium
Ar abi c	Medium
Runyakitara	Huent
Luganda	Huent

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