

CURRICULUM VITAE

1. Identification

Full name: **KABIRIGI Michel**
Place and date of birth: **HUYE, February 22, 1976**
Nationality: **Rwandese**
Marital status: **Married**
Place of residence: **KICUKIRO District, KIGALI City**
Physical address: **RAB-Eastern Agricultural Zone Division**
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kabirimi@gmail.com

2. Education

Years	Institutions and Schools	Degree and Certificate obtained
2012-2015	Kenyatta University	Masters of Sciences in Integrated Soil Fertility Management (ISFM).
2009-2010	Umutara Polytechnic (UP), Nyagatare/Rwanda)	Bachelor of Science in Agriculture (Honours)
1999-2003	Higher Institute of Agriculture and Animal Husbandry (I.S.A.E), Busogo/Rwanda)	Advanced diploma Agricultural Engineering.
1991-1998	Secondary education at "Ecole Agriculture et vétérinaire de KABUTARE" (EAVK)	Certificate of Secondary Education, level A₂ in Agricultural sciences.
1983-1991	Primary education at Mbazi primary school /Rwanda	Certificate

3. Other Trainings

October 18th-November 28th 2016: Training course on "Environmentally Friendly Fertilizer Production, Application and Demonstration from Developing Countries" held in Guangzhou, the People's Republic of China

- 6th – 10th June 2006:** Training of trainer on “Participatory integrated Climate Services for Agriculture (PICSA), organized by CIAT and University of Reading
- 9th-29th July 2015:** Training on “Agricultural Natural Resources Management for African Countries” organized by Agricultural management Institute, Ministry of Agriculture held in Beijing, People’s Republic of China
- 18th-29th June 2012:** Training course on Irrigation extension. Organized by Ministry of Agriculture and Animal Resources
- 3rd-26th April 2012:** Workshop training on Soil and water conservation and dry land farming for developing countries. Organized by International Exchange Centre of Yangling Demonstration Zone in Yangling Demonstration Zone, Shaanxi Province, China
- 31st October-5th December 2011:** Training course on “Statistics in Applied Climatology” Organized by Walker Institute, University of Reading and Rwanda Agriculture Board.
- 3-7th August 2009:** NUTMON/MonQI toolbox Monitoring and Evaluation Basic Training. Organized by FARA RWANDA at MUSANZE/RWANDA
- 7-25th January 2008:** Training on spatial data analysis using GPS and GIS packages (ArcMap and ILWIS) by GIS/NUR, GIS centre of national university of Rwanda (NUR), BUTARE/RWANDA
- 13-20th November 2007:** Training on statistics and statistics Packages (GENSTAT and SPSS) By Institut des Sciences Agronomiques du Rwanda (ISAR), Rubona
- 13-24th March 2006:** Training on “Linking farmers to market, Farmer participation in soil fertility management, Conceptualisation and implementation of adaptive on-farm and demonstration trials” by TSBF-CIAT-ISAR in Kabale-Uganda and Kisumu-Kenya
- 2nd – 8th- Aug-2004:** Study tour on rain water harvesting in TANZANIA with Soil and Water Management Research Group of Sokoyine University of Agriculture (SUA).
- 9th – 13th Aug 2004:** Study tour on soil fertility management in KENYA with KARI and TSBF-CIAT project

4. Working Experience

- From 1st July 2011 to Date:** Research Technician in Natural Resources Management, Soil Conservation Program in Eastern Agricultural Zone Division of Rwanda Agriculture Board (RAB)
- 2005-to August 2011:** Employed by ISAR and working as senior technician in Soil and Water Management Unit in Nyagatare research station.
- Jan- Aug 2005:** Community facilitator of ISAR/CIAT/ATDT-Nutrition project at KIGOMA and RUTOBWE health centers
- Nov- 2003-Dec- 2004:** Focal point technician of ISAR/CIAT/ATDT project in UMUTARA zone

5. Experience on training

September 2010: Trainer in training of Vi-LIFE staff and partners on principles, techniques and practices of construction of bench terraces

September 2010: Development of training manual on principles, techniques and practices of construction of bench terraces

6. Research experience

I have been involved in following research mostly as a research technician in charge of research implementation and follow up, data collection and summarization for reports

Current: Involved in research on

- Model-based framework to support breeding for high crop yield: Calibrate farm scale productivity and Green House Gases (GHG) emission trade-off models for key farm typologies in Bugesera, semi arid area of Rwanda
- Increasing agriculture productivity through eco-efficient precision agriculture using GIS and remote sensing technologies
- Developing carbon stock map of Rwanda using R in the framework Global Soil Organic Carbon mapping

2016-2017: Pasture intensification in Rwanda – trade-offs between income, soil organic matter, nutrient balances, and greenhouse gas emissions

2013-2015: MSc thesis research on the “Effects of conservation agriculture on bean and Maize yield, soil properties and water productivity in Bugesera District, Rwanda”

2012: Research on Integrated soil fertility management in Nyagatare and Bugesera Districts

2011: Research on Nutrients flows and Balances in Rwasave watershed

2010: Design and preparation to establish small scale drip irrigation in UMUTARA semi arid zone

2010: Establishment and follow up of trial on small scale irrigation using bottles perforated at different scales

2010: Survey to estimate partial nutrients balances in soils of smallholder farmers of Cyabayaga watershed, Bsc special project

2010: Intensification of climbing beans based cropping systems in Rwanda (Installation of trials of rotation and intercropping of climbing and maize)

2010: Research on improving soils of rice scheme using Minjingu Phosphate Rock (MPR), research of soil and water management unit conducted in Cyabayaga rice sheme.

2009: Studies of rainwater harvesting opportunities and constraints for farm productivity improvement in nyagatare district, rwanda

2009: Technician in studies of assessing dynamics of hydrological characteristic of Cyabayaga wetland (Analysis of water table fluctuation by piezometers, soil moisture monitoring

using DIVINER 2000, analysis of river level fluctuation by staff gauge fixed in the river, collecting rainfall by established rain gauge), part of Phd of NABAHUNGU Leon

- 2009:** Technician in studies of assessing soil physical characteristics related to dynamics of hydrological characteristic of Cyabayaga wetland (Determination of hydraulic conductivity, bulk density, PF and soil texture), part of Phd of NABAHUNGU Leon
- 2008:** Technician in integrated soil fertility management (Installation of trials of Rotation and Intercropping trials with different levels of fertilization), part of Phd of NABAHUNGU Leon
- 2008:** Impact assessment on disseminated technologies in Cyabayaga and Gakirage watershed, studies of soil and water management unit carried out in Cyabayaga and Gakirage watershed
- 2007:** Stakeholders analysis for options for improved management of wetland, part of Phd of NABAHUNGU Leon
- 2007:** Inventory of RainWater Harvesting Systems in Nyagatare & Gatsibo districts of Eastern Province Rwanda, studies of soil and water management unit carried out in Eastern province, Rwanda
- 2006:** Legume demonstration in Umutara CIALCA mandate area with CIAT/TSBF- CIALCA Project and working as senior technician and research assistant on soil and water management, activities of CIAT/TSBF- CIALCA Project carried out in Umutara CIALCA mandate area
- 2003:** Diploma level special project on sprinkler irrigation system designing at ISAR-KARAMA (Activities carried out included: Determination of crop water requirement, determination of amount of water to irrigate, Determination of irrigation duration, Determination of irrigation interval as well as determination of pressure required for good distribution of water)

7. Experience in surveys

Period	Title of the study	Position in study
2011	Baseline survey on increasing soil fertility benefits of climbing beans and associated agroforestry interventions under smallholder production systems in the Northern and Eastern regions of Rwanda	Over all coordinator and biometrician
2010	Survey to estimate partial nutrients balances in soils of smallholder farmers of Cyabayaga watershed, Bsc special project	Principle investigator and biometrician
2010	Baseline survey on intensification of climbing beans based cropping systems	Over all coordinator and biometrician
2009	Need assessment on factors relating to milk spoilage in Nyagatare, Gatsibo and Rwamagana	Over all coordinator and biometrician
2007	Baseline Survey on Agricultural Systems in UCRIDP Mandate Area in Eastern Province of Rwanda	Enumerator
2006	Baseline survey of CIALCA project	Enumerator
2006	Assessment of wetland reclamation on smallholder farmers livelihood in Cyabayaga and Rugeramigozi wetlands	Over all coordinator
2006	Impact assessment of UCRIDP project in Cyabayaga and Gakirage watershed	Over all coordinator and biometrician

8. Publications:

Peer review

Michel Kabirigi, Samuel Mugambi, Bernard S. Musana, Gislain T. Ngoga, Jean Claude Muhutu, Jules Rutebuka, Vicky M. Ruganzu, Innocent Nzeyimana, Nsharwasi Leon Nabahungu (2017). Estimation of soil erosion risk, its valuation and economic implications for agricultural production in western part of Rwanda. *Journal of Experimental Biology and Agricultural Sciences*, 5(4), 525 - 536, ISSN 2320-8694.

Kabirigi, M., Musana, B., Kagabo, D. M., Mukuralinda, A., & Nabahungu, N. L. (2016). Nutrients Flow as Affected by Cropping System and Production Niche in Smallholder Farmers of Cyabayaga Watershed. *Agricultural Sciences*, 7(05), 287.

Kabirigi, M., Musana, B., Ngetich, F., Mugwe, J., Mukuralinda, A., & Nabahungu, N. L. (2015). Applicability of conservation agriculture for climate change adaptation in Rwandas situation. *Journal of Soil Science and Environmental Management*, 6(9), 241-248.

- Kabirigi, M.** (2015). Effects of conservation agriculture on bean and maize yield, soil properties and water productivity in Bugesera District, Rwanda (Masters dissertation, Kenyatta University).
- M. Kabirigi, F.K. Ngetich, K. K. Mwetu, P. Rushemuka, E. J. Wasige, Vicky M. Ruganzu and N.L. Nabahungu.** (2017). Implications of tillage practices, management of soil surface and fertilizer application on sustainable dryland agriculture, a case study of Eastern Rwanda. Accepted for publication in *African Journal of Agricultural Research*. AJAR-07.03.17-12289
- Michel Kabirigi, Shrestha Om Prakash, Boejharat Varsha Prescella, Crissy Niamwiza, Serrano Pitti Quintin, Israel Anyisile Mwamjengwa, Abeykoon Mudiyanse Jayantha, Mary Logunu Apula Keji and Chenglin Zhang.** (2017). Fertigation for environmentally friendly fertilizers application: Constraints and opportunities for its application in developing countries. Accepted for publication in *Agricultural Sciences*.

Conferences proceedings papers

- Wasige John E., **Michel Kabiligi.**, Norman Kwikiriza., Robert Mwerera., Jane Bemigisha, Timothy Lubanga., Charles Galabuzi., Gerald Eilu., Daniel Nkondola, 2013. Planning Future Adaptation to climate change impacts on Crop yield in the upper catchment of Lake Victoria Basin. Presented during the FIRST BIENNIAL CONFERENCE ON AGRICULTURAL RESEARCH AND EXTENSION: Confronting challenges of food insecurity and poverty in the era of climate change and variability between August 21-23, 2013, Kigali Serena Hotel
- Wasige John E., **Michel Kabiligi.**, Norman Kwikiriza., Robert Mwerera., Jane Bemigisha, Timothy Lubanga., Charles Galabuzi., Gerald Eilu., Daniel Nkondola, 2013. Detecting long-term rainfall changes in Kagera basin to support climate change adaptation policy. Presented during the FIRST BIENNIAL CONFERENCE ON AGRICULTURAL RESEARCH AND EXTENSION: Confronting challenges of food insecurity and poverty in the era of climate change and variability between August 21-23, 2013, Kigali Serena Hotel
- Wasige John E., **Michel Kabiligi.**, Norman Kwikiriza., Robert Mwerera., Jane Bemigisha, Timothy Lubanga., Charles Galabuzi., Gerald Eilu., Daniel Nkondola, 2013. Local perceptions to climate change effects and food security in the upper catchment of lake Victoria basin. Presented during the FIRST BIENNIAL CONFERENCE ON AGRICULTURAL RESEARCH AND EXTENSION: Confronting challenges of food insecurity and poverty in the era of climate change and variability between August 21-23, 2013, Kigali Serena Hotel
- Nabahungu N.L., **Kabirigi M.**, Musana B., Uwimanzi A., Umulisa V. (2013). Nutrient flows and balance as affected by farming systems. Presented in confronting challenges of food insecurity and poverty in the era of climate change and variability, first biennial conference on agricultural research and extension, August 21-23, 2013, Kigali Serena Hotel, Rwanda
- Kabiligi M.**, Musana B., Nabahungu N. L., Kurothe, R.S. (2009). Opportunities and constraints of rainwater harvesting for farm productivity improvement in nyagatare district, Rwanda. Paper presented in SSSEA (December 2009)

Official reports

R.S. Kurothe and **Kabiligi Michel**, 2007: Inventory of RainWater Harvesting Systems In Nyagatare & Gatsibo districts of Eastern Province Rwanda

Nizeyimana Fidèle and **Kabiligi Michel**, 2008: Option of improved management of wetland, results of focus group discussion in cyabayaga watershed

Dusengemungu L., Uwimana G., Byamushana C., Nabahungu N.L., Mowo J., Tuyisenge J., Mukankubana D., Mukantwali C., Kajuga J., Umulisa C., Kanyange M.C., Murera A., Ndejuru E., Nyiraneza C. and **Kabirigi M.**, 2006: participatory diagnostic report for gasharu watershed, gitarama, southern province, rwanda

10. Languages

Mother tongue: Kinyarwanda

Language proficiencies

Proficiency	English	French	Other : Swahili
Understanding	Very good	Excellent	Very good
Speaking	Very good	Very good	Good
Reading	Very good	Very good	Good
Writing	Very good	Excellent	Good

Referees

Dr. KARANGWA Patrick: Head of Research Department, Rwanda Agriculture Boards; Sunrise Building, Remera, P.O. Box 5016, Tel: + (+250) 7 839 42550, e-mail: patrick.karangwa1@gmail.com, Kigali-Rwanda

Dr. Ngetich, Kipchirchir Felix: Department Land and Water Management, Embu University College, Kenya; Contact Address: 43844-00100 Nairobi; P.O Box 54,30403 Marigat, Kenya. Telephone: +254722883269, Email: felixngetich@yahoo.com

I swear that, to my knowledge, the information given above is true.



Kabirigi Michel

03rd December 2017