

Curriculum vitae

1. **Family name:** Kabeya
2. **First names:** Kayembe Polydor
3. **Nationality:** Congolese (DR Congo)
4. **Country of residence:** South Africa
5. **Contact details:** polykabeya2013@gmail.com, +27785233979
6. **Education**

Institution [Date from - Date to]	Qualification obtained
University of Pretoria 02/09/2009 – 15/04/2015	Master of Sciences Agric (Agronomy)
University of Lubumbashi 15/10/2001 – 15/09/2003	Honours Agriculture/ Phytotechny
University of Lubumbashi 05/10/1998 – 15/09/2001	BSc Agric/general agronomist

7. **Language skills:** (1- Excellent, 5-Basic)

	Reading	Speaking	Writing
English	2	2	2
French	1	1	1
Swahili	3	3	3

8. **Membership of professional bodies:**

The South African Council for Natural scientific professions (SACNASP)
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9. **Specialisation:** Agronomy / Agricultural sciences

10. **Present position:** Horticulturist/trialist

11. **Key skills:**

- Profound knowledge of the principles of agronomy and cropping system including the management of soil nutrients, irrigation water, pests and diseases, diagnostic, and crop protection
- Strong analytical and evaluation skills
- Design and run plot experiments to compare crop varieties and test the effects of various treatments on growth and yield
- Handled daily farm operations including planting, cultivating, and processing of fruit and vegetable crops
- Designing irrigation layout and Implementation of irrigation structures

- Extensive experience in developing and implementation of various research proposals
- Perform chemical analyses of soil and plant materials and culture micro-organisms and potential pathogens for study
- Ability in manipulating and maintaining various electronic and mechanical equipment and instrumentation and laboratories
- Aeroponics and hydroponics' systems implementation and management
- Strong crop modeling skills
- Extended knowledge of quality control processes and storage and handling techniques requirements
- Strong analytical and evaluation skills, and Innovative problem-solving abilities
- Perform experiments, gather, record, and analyze data using SAS, GenStat, SPSS and other mathematical methods and present findings
- Ability in the use of various software for crop modeling, such as Soil Water Balance (SWB), SWB weather, Apsim, Swap, etc.
- Ability to use mathematical tools and software for evaluating genotype-environment and agronomical practices relationship.
- Great ability in Microsoft office; Word, Excel, PowerPoint, spreadsheets, Outlook, Microsoft Access, Email, Writing and Graphic skills
- Proficient budgeting and sales management
- Excellent communication skills (English and French), both written and oral
- Strong multicultural personality
- Exemplary leadership and supervising skills
- Great ability in mechanical and physical of work
- Excellent ability in the use of Zoom, Team Viewer, Dropbox.

12. Specific experience:

Country	Date from - Date to
South Africa	July 2008 - Current
DRC	March 2003 - March 2007

13. Professional experience (Formal employment and Assignments/consultancies)

Horticulturist/Trialist	Nutrigo In Line Trading	South Africa	Managing, planning, implementing trials for the	April 2021	Current
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			registration of chemical and fertilisers		
Research scientist	University of Pretoria	South Africa	Managing, planning, implementing trials, reporting on the outcomes, Editing and drafting research proposals and papers	April 2015	April 2021
Research associate	University of Pretoria	South Africa	Managing, planning, implementing trials, reporting on the outcomes, Editing and drafting research proposals and papers	February 2008	April 2015
Research consultant	Fortuna Food Pty Ltd	South Africa	Conducting literature review and trials on aeroponic trials and garlic	October 2012	December 2013
Junior researcher	National Institute of Research and Agronomical Studies	DRC	Conducting research trials on breeding, and agronomic practices	March 2003	March 2007
Farm manager	Quin Sampalique Farm	DRC	Managing all the farming activities, including buying of	March 2001	March 2003

			inputs and selling of outputs.		

14. Publication

- Sweet sorghum Growth, Stalk Yield, Sugar and Ethanol Yield Response to Withholding Water in Different Growth Stages as a Strategy to improve Water Use Efficiency (Research paper ready for submission to the journal for publication soon)
- Screening Genotype x Management interactions to understand the ability of Maize/or wheat to absorb soil water and nutrients, and their impacts on yield traits under agro-ecological zone of South Africa (Research proposal 2020)
- Using Geographical Information Systems to Optimize Water and Nitrogen Effectiveness and Efficiency in Maize (*Zea Mays* L) Crop for Sustainable Production (Research proposal 2019)
- Using Geographical Information Systems to Optimize nutrient Efficiency in Sweet Potato (*Ipomoea batatas*) Crop for Sustainable Production (Research proposal 2019)
- Effect of grafted sweet melon cultivars on fruit yield, quality, and post harvest performance (Research proposal 2018)
- Impact of mining activities on yield, quality, and phytochemical content of selected vegetable crops. (Research proposal 2018)
- Evaluation of the efficiency and effectiveness of the centre pivot irrigation system on low infiltration soils (Research proposal 2017)
- Plant anatomy as a tool for evaluating the effect of different levels of nitrogen, plant population, row spacing and irrigation on kenaf (*Hibiscus cannabinus* L.) fibre development. (<http://dx.doi.org/10.1080/02571862.2017.1317856>). South African Journal of Plant and Soil by Taylor & Francis Group)
- Thesis. KP Kayembe 2015: Kenaf (*Hibiscus cannabinus* L.) Fibre Yield and Quality as affected by Water, Nitrogen, Plant Population and Row Spacing. Online on University of Pretoria website
- Kenaf responses to agronomical practices (oral presentation and abstract) during the postgraduate symposium at the University of Pretoria. August 2013
- Manipulations of growth and biomass of kenaf by the means of water and nitrogen fertilization (oral presentation and abstract). Combined congress / Pretoria January 2011
- Effects of plant population, row spacing and nitrogen levels on kenaf production (poster presentation and abstract). Combined congress Bloemfontein. January 2010
- Other proposals and seminars presented in the Department (conferences and abstracts) 2010 and 2012

- Attempt on the controls of Tomato crop pests and diseases using plant extracts; *Euphorbia heterophylla*, *E. cotinifolia*, *E. inequilatera*, *Tacca lecontopetaloides*, *Amblygonorcapus andongensis*; believed to possess pesticides principles by local farmers in South East of Katanga Province / DR Congo (Research project and Dissertation as a requirement for the Degree of Engineer in agronomical sciences)
- The use of *Leucaena leucocephala* in agroforestry. (Literature review as requirement for Bachelor degree in agronomical sciences)

15. Professional referees

- Name: Doctor Milambo Freddy Tshiala
Company: Maanakana Projects and Consulting (Pty) Ltd
Position: Director
Email: mftshiala@gmail.com
Cell phone: 0027836691702
- Name: Doctor Lodama Kafua Emlo
Company: Agricultural Research Council (ARC) / Vegetables, Industrial and Medicinal Plants (VIMP) / Crop Science Divisions
Position: Researcher
Telephone: 0027128088000
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- Name: Doctor Gilbert Kamgan
Company: University of Pretoria
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