

Simon Vudiya Lirova
Box 7299-00300, Nairobi
0743961602
simonvudiya@gmail.com

Profile

I am self-motivated individual with a dream to make the society a better place to live through agriculture. I would like to bridge the gap between what the society does in Agriculture and the role of science in ensuring improved production, food safety and sustainable use of the resources necessary in food production. I believe that Agriculture is key in pushing sub-Saharan countries to higher levels of development like industrialization and reliance on service industry for employment of our youthful population. This dream has motivated my academic journey consistently, sometimes changing on the strategies I implement but the end result remaining the same, *contributing towards a food secure nation that can rely on itself*. I am also fully aware that to achieve this, I can not work in Isolation, I therefore need to be a team builder, a leader and be of inspiration to people around me to orient their dreams and efforts to be in tandem with mine to have a greater impact.

Skills

- i. Conduct field experiments by preparing layout and setting up the experiment
- ii. Data collection with Kobo and ODK
- iii. Preparing questionnaire in excel to be used in ODK or Kobo data collection tool kit
- iv. Data collection for both pests and diseases
- v. Data cleaning and entry
- vi. Data analysis- both descriptive and inferential using SPSS, GenStat and R programming and Python programming on Java script
- vii. Writing reports.
- viii. Computer literate and can use Microsoft office, word, excel, and PowerPoint
- ix. Designing posters
- x. Drawing maps and fields.
- xi. Organizing fellow employees
- xii. Carrying out surveys

Academic background

I have completed a **master's** degree in **Plant Pathology** from the University of Nairobi. The program introduced me to logic reasoning, research work and matters on data analysis. I was able to master proposal writing skills and preparing scientific papers. I involved in collecting and collating data from surveys, collecting data from field and laboratory experiments, cleaning the data and analyzing to draw inferences from the sample to the original population. I am able to identify problem as it appears in the general population and come up with strategy to confirm before laying strategy to address.

I did my **Bachelors** degree of **Horticulture** from the University of Nairobi which I completed in 2018. Here I got insight on the importance of using modern farming techniques in addition to scientific innovation to address the problems experienced in agriculture. Most importantly is the idea of maintaining our environment for posterity. Horticulture opened my eyes to exterior landscaping and internal landscaping through ornamental plants and their therapeutic effect on humanity.

I completed my secondary education in 2012 where I did well to secure government scholarship to the competitive university programs. In my elementary and primary education, I interacted with my immediate environment and friends which shaped my career after I realized the insufficient food that affected most of the homesteads.

Work experience

2024-present- Kenya Plant Health Inspectorate service

Activities

- i. Identification and classification of parasitic nematodes in Nematology laboratory.
- ii. Extract, denature and purify DNA/RNA from different sample types e.g. Nematodes fungal,
- iii. Bacterial cultures, and plant material.
- iv. Detection of plant pests using advanced molecular techniques such as Loop Mediated Isothermal Amplification (LAMP) and PCR (Real Time and Conventional)
- v. Micro propagation of plant germplasm and virus clean up by tissue culture, meristem tip
- vi. culture and thermotherapy.
- vii. Preparation of reagents, solutions and buffers required for molecular analysis.

- viii. Performing routine testing, quality control, maintenance and proficiency testing in accordance with current laboratory procedures.
- ix. General principles of Good Laboratory Practices and Quality Management Systems (under the ISO 17025 and 9001-2015 systems).
- x. Report writing and sample reception using LIMs (Laboratory Information Management Systems)
- xi. General principles of Pest Risk Analysis (PRA) and pest surveillance.
- xii. Biosafety regulation and testing of Genetically Modified Organisms (GMOs)

2023- Agriculture and Food Authority

Activities

- i. I served in the Technical Advisory Services of the Food crop Directorate where I collected data, cleaned and analyzed them producing reports.
- ii. I also educated the Sub-County Agricultural Officers of the regulations in the Crop Acts 2019.
- iii. I organized stands in a number of Shows in Bukura, KALRO headquarters and ASK Shows.
- iv. I prepared demonstration plots for alternative food crops with the Agricultural Training Centers in Kisii, Migori, Kisumu and Elgeiyo Marakwet.

2022- Centre for Agriculture and Biosciences International

Activities

- i. Collecting data through surveys in all sub counties of Embu on fall army worm
- ii. Collecting data on the adoption of mobile technology by farmers in Njoro, Molo, Kuresoi North and Kuresoi South

2021- Keya Agriculture and Livestock Research Organisation

- Carried out field research Experiments at Kalro Mwea where I screened 186 rice germplasm for their tolerance to brown spot, rice blast and bacterial wilt at Kirogo field station

2018- Wildfire Horticulture

- i. Hypericum and roses production from planting to harvesting
- ii. Crop protection and management
- iii. Crop nutrition and fertigation
- iv. Crop husbandry and cultural practices
- v. Quality Check and monitoring by scouting
- vi. Post-harvest treatment and grading of roses and hypericum

- vii. Health and safety adherence and provisions
- viii. Employee management and work plan operations • Produce of detailed report on work areas.
- ix. Supervision of Hypericum propagation as well as training tissue culture.

2016- Oserian Development Company

- i. Priva/water/irrigation system; including source of water, fertilizers classification and formulation, priva operations, and filter units operations
- ii. Fertigation: Fertigation process and vermiculture process
- iii. Supervision in propagation of statice: using the tissue culture method.
- iv. Crop protection as well as training casuals; Identification of diseases and their casual agents – Powdery Mildew, Botrytis, Rust, Crown gall and their control. Identification of pests and their control – whiteflies, thrips, mites, caterpillar, aphids, mealy bugs, leaf miner. Management of soil-borne pests and diseases- nematodes, fusarium

2015- Finlay's Horticulture

- i. The use of biopesticides to manage pests and diseases on horticultural crop
- ii. How to rear the biopesticides(Neoseiulus californicus, Phytoseiulus persimilis

Trichoderma harzianum)

- iii. Agronomic activities on the production of herbs and spices (Persely, mint, sage, tarragon, rosemary) and other crops including baby corn, sugar snaps, French beans, broccoli among others

REFEREES

1 Prof James Muthomi,

Chairman Department of Plant science and crop protection University of Nairobi,

Phone - 0722984179

Mail - James_wanjohi@yahoo.com.

2 Prof Kimenju-

Professor Department of Plant Science and crop protection University of Nairobi,

Telephone- 020-2181354

Email: deanagric@uonbi.ac.ke

3 Dr Kimani Director KALRO Mtwapa

Phone - 0729853035

Mail - kimanijm@yahoo.com



DG009359

UNIVERSITY OF NAIROBI

This is to certify that

Simon Vudiya Lirova

having satisfied the requirements
for the award of the degree of the

**MASTER OF SCIENCE
IN PLANT PATHOLOGY**

was admitted to the degree
at a Congregation held at
this University on the
Twenty Second Day of September in the Year
2023

VICE-CHANCELLOR



DEPUTY VICE-CHANCELLOR
(ACADEMIC AFFAIRS)

UNIVERSITY OF NAIROBI



This is to certify that

Simon Vudiya Lirova

having satisfied the requirements
for the award of the degree of the

**BACHELOR OF SCIENCE
IN HORTICULTURE**

First Class Honours

was admitted to the degree
at a Congregation held at
this University on the

Fourteenth Day of September in the Year
2018

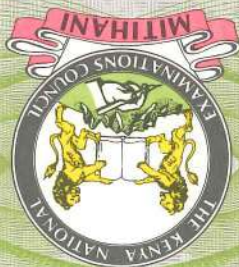
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VICE-CHANCELLOR

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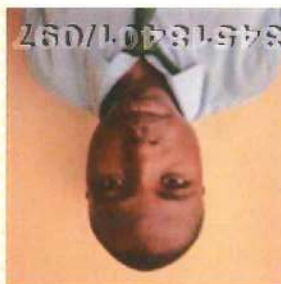
DEPUTY VICE-CHANCELLOR (ACADEMIC AFFAIRS)

The Kenya National Examinations Council



KENYA CERTIFICATE OF SECONDARY EDUCATION

This is to certify that the candidate named below sat for the Kenya Certificate of Secondary Education examination in the subjects named below.



34518401/097

THE CANDIDATE ATTAINED THE GRADE SHOWN IN THE SUBJECTS NAMED

M1 34518401/097

GRADE

B (PLAIN)
B+ (PLUS)
B (PLAIN)
A- (MINUS)
B (PLUS)
B+ (PLUS)
A- (MINUS)
B (PLUS)

NAME: LIROVA SIMON VUDIYA
SCHOOL: TAMBACH BOYS HIGH SCHOOL

101 ENGLISH
102 KISWAHILI
121 MATHEMATICS
231 BIOLOGY
233 CHEMISTRY
312 GEOGRAPHY
313 CHRISTIAN RELIGIOUS EDUCATION
443 AGRICULTURE

SUBJECTS NAMED EIGHT

MEAN GRADE B+ (PLUS)

EXAMINATION OF NOVEMBER/DECEMBER 2012

PRINTED : 130924 : 052032

[Signature]

Chairman

Kenya National Examinations Council



[Signature]

Secretary

Kenya National Examinations Council

This is a secure document using special paper and inks. Please hold it up to the light to verify that the word 'MITIHANI' and the 'GENUINE' embedded thread can be seen through the paper. Not valid without a hologram.

KCSE / 12 0277474



(See overleaf for conditions of issue)

STDF/PG/809: Regional approach towards addressing invasive
quarantine pests of potato in East and Southern Africa

Certificate awarded to

Simon Vudiya Lirova

For successfully completing

Hands-on practical training on potato cyst nematode (PCN) diagnostics

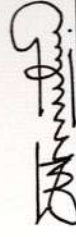
On 16th - 20th September 2024, at KEPHIS, Muguga, Nairobi.



Dr. Solveig Haukeland
NemAfrica



Dr. Joyce Maru
International Potato Center



Prof. Theophile Mutui
KEPHIS



**KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)
HEADQUARTERS**

Lola Ridge, Karen • P.O. Box 49592 Nairobi, Kenya • Tel: 0206618000/0709891000 • Fax: 0203536175
E-mail: director@kephis.org • Website: www.kephis.org

Our ref: PH/1/142(2)

27th March, 2024.

LIROVA, SIMON VUDIYA
Mobile: 0743961602
ID No. 31710867
Email: simonvudiya@gmail.com

Dear , *SIMON*

RE: Internship Deployment

Reference is made to the Public Service Commission letter dated 3rd January, 2024 reference number PSC/EST/83/4(1956) offering you internship at KEPHIS. We are pleased to inform you that your station of deployment is KEPHIS PQBS.

This deployment is subject to the following terms and conditions:

1. Duration

Your appointment is on internship programme effective 1st April 2024, to 30th March 2025.

The duration of the agreement is **One (1) Year**.

2. Internship Stipend

You will be paid a monthly internship stipend by Public Service Commission as determined by the Commission from time to time.

3. Subsistence allowance

You will be entitled to subsistence allowance while working outside your duty station at a rate determined by the Public Service Commission.



welcome
[Signature]
06/03/2023

AGRICULTURE AND FOOD AUTHORITY

Tea House | Naivasha Road, Off Ngong Road,
P.O. Box 37962– 00100 NAIROBI
Tel: 254 700 638672/+254 737 454618
Email: info@afa.go.ke
Website: www.afa.go.ke

AFA/HRM/6/VOL.XIX (9)

27th February, 2023

Simon Vudiya
Tel: 0743961602
Email: simonvudiya@gmail.com
NAIROBI.

Through

Ag. Director – Food Crops Directorate
Agriculture and Food Authority
P.O. Box 37962-0010
NAIROBI

Dear Mr. Vudiya,

RE: INTERNSHIP AT FOOD CROPS DIRECTORATE

Reference is made to your application for internship dated 30th January, 2023. You have been selected to undertake internship at Agriculture & Food Authority (AFA) -- Food Crops Directorate, Technical Advisory Services Department, Nairobi.

This letter covers the conditions of your association with AFA as an intern for a six (6) months non-renewable period from **6th March, 2023** to **7th September, 2023**. You will be paid a stipend of Kshs. 15,000 per month and you will not be entitled to other benefits. You will be required to have a personal insurance cover for the entire internship period.

Your status as an intern can be terminated by either party by issuing fourteen (14) days' notice in writing. In the event this agreement is terminated before its expiry date, you will be paid on pro-rata basis for the actual number of days worked.



Certificate of Participation

This is to certify that

Simon Vudiya

Has attended on 7th - 19th February 2022

Training on Statistical Data Analysis for Post-
Graduate Students and Staff using R
Programming Language



Prof Adipala Ekwamu, RUFORUM
Executive Secretary



Tamper Proof

21st December 2016

Office of the Dean,
University of Nairobi
Faculty of Agriculture
P.O. Box 29053 - 00625
Nairobi

RE: SIMON VUDIYA LIROVA



The above named student from University of Nairobi underwent his attachment at Oserian Development Company from 19th September 2016 to 17th December 2016.
During his attachment he was exposed to the following areas;

- ❖ **Plant Production structure:** Green houses and tunnels, site and support facilities, design parameters including light, orientation, size and height.
- ❖ **Production Practices;(Roses, Carnation, Fillers)& Varieties**
Bed preparation for hydroponics, Planting, Crop maintenance practices; Head knocking, weeding, primary and secondary bending, de-suckering, soft cleaning, re-bending, pathway sweeping, Water systems, cutting back and punching. Mother stock process for carnations, shoot adjustments, plugs drenching, budding and disbudding.
- ❖ **Integrated Pest Management;** Control of fungal diseases and pests. Strategies in IPM, cultural methods, physical control, biological control such as predators and parasitoids.
- ❖ **Pest Control;** Spray program, equipment used, spray methods, chemicals used and mixing.
- ❖ **Priva/Water/Irrigation system;** including source of water, fertilizers classification and formulation, priva operations, and filter units operations.
- ❖ **Fertigation:** Fertigation process and Vermiculture process.
- ❖ **Crop Protection;** Identification of diseases and their casual agents - Powdery Mildew, Downey Mildew, Botrytis, Rust, Crown gall and their control. Identification of pests and their control - Whitefly, Thrips, mites, caterpillar, aphids, mealybugs, leafminer. Management of Soil-borne pests and diseases - nematode, fusarium.
- ❖ **Harvesting, Profiling & Post Harvest management;** Harvesting parameters, sizing, wrapping, cooling, pre-grading, grading process, defoliation, bunching, Vase life processing and sleeving, boxing and strapping and pre-cooling and dispatch.
- ❖ **Quality control management;** incoming quality control, process control, finished products control points and vase life.
- ❖ **Research and development;** Water sampling to measure PH level, Electrical conductivity, Chlorine and lake levels, domestic water public health concerns, post harvest water treatment, chemical and biological trial, soil research.
Wetlands management; Purifying water: - soak pit process and use of plants to absorb chemical residue.
Forestry section: Purpose as windbreakers, source of wood for droppers and end posting.
Vermiculture: Purpose, process and benefits.
Weather station: Water levels and Hydrogen Sulphide levels monitoring.
- ❖ **Civil Works:** Fence line installation, Pumice mining, sterilization and screening.
- ❖ **Water Treatment:** Water treatment for domestic use, coagulation, Sedimentation filtration, chlorination and storage

Simon is co-operative, hardworking, and industrious and is a good team player. We wish him the best in his future endeavors.

Yours sincerely,
For: Oserian Dev. Co. Ltd

Mary Kinyua
Human Resource Manager

Oserian Development Company Limited

Head Office
Nairobi Office

P.O Box 2010, Naivasha 20117, Kenya
P. O Box 43340, Nairobi 00100, Kenya

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Courier Service
Hand Delivery
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Specialised Cargo Area, 1 st Avenue, Jomo Kenyatta International Airport, Nairobi, Kenya
'Dropping Zone' No.15, Revlon Professional Plaza, Tubman Road, Nairobi, Kenya
w:www.oserial.com



21st December 2015

TO WHOM IT MAY CONCERN

REF: INDUSTRIAL ATTACHMENT FOR SIMON VUDIA

This is to certify that the above named student was on industrial attachment in Finlays Horticulture (K) Ltd based at Kingfisher Veg farm from 21st September 2015 to 20th December 2015. While on attachment, he covered the following areas:

Field Operations

Veg Department:

Spray dept

1. Stores regulation and standards
2. Monitoring Chemical movements, usage, disposal and recording.
3. Spray program making, scouting and report interpretations.
4. Nozzle selection and calibration
5. Supervising different techniques for spraying specific pest
6. Record keeping and traceability

Picking

1. Doing projections & Field grading requirements
2. Supervising different orders, recordings and traceability

Irrigation

1. Learned the various types of irrigations their requirements and Labor management.

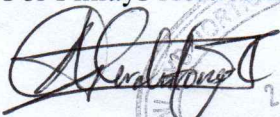
Crop development department

1. Land selection and preparation.
2. Various farm implements maintenance.

Within the attachment period, Mr Vudia proved to be hardworking, Punctual, Outgoing, and team member. He is a fast learner and his performance was above average.

We would like to wish him all the best in his future endeavors.

Yours Faithfully,
For Finlays Horticulture (K) Ltd



Munya Verenga
GENERAL MANAGER - VEG

To Whom It May Concern

I had the pleasure of working with **SIMON VUDIA - ID NO.31710867** as a student on placement from UNIVERSITY OF NAIROBI from September till end of December 2015. He approached his work with enthusiasm and dedication, and had become part of the core team by the time the placement ended in December.

The farm produces mainly babycorn, French beans, tenderstem broccoli and a variety of herbs for export. He has experienced working in all the departments on the farm including crop planning, cultivation, planting, spraying, harvesting, irrigation, scouting and packing. He also played a role in stock taking in the company stores when requested and displayed a lot of maturity and skill. He played a big role in produce transport trucks scheduling, supervising all land preparation, planting and shredding of old blocks. He recorded the man hours for each task in the farm and used his analytical skills to lay frame work in future long term plan in regard to labour allocation and requirement.

I would like to recommend him to any employer.

Yours faithfully,

For: Finlays Horticulture Kenya Ltd.



MUNYA VERGARA
GENERAL MANAGER - VEG



cc: Personal File