



# Ronald Reagan Okoth

## Remote Sensing for Environment

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[LinkedIn](#)

### Date of birth

01/06/1992

### Nationality

Kenyan

### Skills

R software

Python

Data Analysis

QGIS

Microsoft Office

Project development

Machine Learning

MacOS

Windows

### Languages

English

Kiswahili

Turkish

Luo

## Profile

At the dawn of my career, I have developed different disciplines, from the technical to the social. With a heart open to our land's resource and land sustainability to the needs of the society, my desire is to make a positive impact with my growing global mind-set and cross-cultural appreciation. Besides my education, interest in Remote Sensing and Data Science, I am a creative and honest expressive communicator. I am tolerant, reliable, charismatic and able to address problems. It would be an honor to work with an organization that will have me contributing to something bigger than myself and positively impact the community.

## Employment History

### Internship, Alfred Wegener Institute, Potsdam

August 2020 — December 2021

I created vegetation classification across Lena delta from both Sentinel and Landsat images, and investigate potential inter annual dynamics and trends (spatial) as well as the intra-class variation in vegetation phenology using Google Earth Engine and Jupyter notebook platforms.

### Internship, VITO belgium, Mol

July 2019 — December 2019

Precision Agriculture focusing on applying Deep Learning with Remote Sensing for object detection of palm trees, apple and pear flowers.

### Internship, Kenya marine and Fisheries Research Institute (KMFRI), Gazi, Kenya

September 2019 — October 2019

Assessing the opportunities of using blue carbon in realizing Kenya's commitment to Paris agreement. I helped draft a technical report meant to inform policy on inclusion of mangroves in Nationally Determined Contributions.

### Research Officer, Permaculture Research Institute Kenya, Nairobi, Kenya

## **Hobbies**

Soccer, Gardening,  
sustainable living, Cycling,  
Growing own food

May 2017 — September 2018

My role in this position was to develop extensive data and report on the ecological, economic and social changes experienced by farmers who embrace permaculture concept. I also organised community outreach campaigns and provided extension work to farmers.

## **Internship, Taita Research Station - University of Helsinki, Wundanyi, Kenya**

September 2016 — December 2016

Designing, planning and implementing community development project (Adaptation for Ecosystem Resilience in Africa, AFERIA project). Site selection using QGIS, Workshop organization, Data collection, analysis and reporting

## **Internship, Evergreen Plains Farm, Kisumu, Kenya**

May 2016 — July 2016

Product development; sustainable small scale farming and value addition, Earth building, agroforestry, crop propagation, seed saving and composting.

## **Internship, Kenya marine and Fisheries Research Institute (KMFRI)**

February 2015 — September 2015

Led community members in mangrove monitoring and restoration exercise with Mikoko Pamoja project, Designed and implemented seagrass carbon stock assessment research project in Gazi bay, Part of team that developed Project Idea Note for upscaling of Mikoko Pamoja mangrove carbon offset project to Vanga. Also conducted community outreach and education on payment for ecosystem services (PES) and environmental conservation.

## **Education**

### **Masters, Bayerische Julius-Maximilians-Universität Würzburg, Würzburg**

September 2020 — September 2022

master degree in the applied Earth Observation and Geoanalysis of the Living Environment (EAGLE)

### **MSc. Marine and Lacustrine Science Management, Vrije University Brussels, University of Ghent and University of Antwerp, Brussels, Ghent and Antwerp, Belgium**

September 2018 — September 2020

Masters thesis: Studying Changing Ecosystem Services in Relation to Coastal Defense along the North Sea Using Satellite Imagery.

### **BSc. Coastal & Marine Resource Management, Kenyatta University, Mombasa, Kenya**

September 2012 — June 2017

Undergraduate thesis – *Assessment of Soil Organic Carbon Stock in Seagrass Beds of Gazi Bay, Kenya*, which came out of my time at the Kenya Marine & Fisheries Research Institute.

## **Courses**

**Open Source Mapping, Mapping Across Borders and World Neighbours, Kenya**

August 2011 — August 2011

**Permaculture Design Course, Drylands Natural Resource Centre in partnership with Permaculture Research Institute**

February 2017 — February 2017

**Composting, Permaculture Research Institute in partnership with Laikipia Permaculture Centre**

January 2019 — January 2017

**Earth Observation to service across the value chain, GMES & Africa and Copernicus**

November 2019 — November 2019

## **References**

Prof. Dries Bonte from Universiteit Gent

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Karolien Van Puyvelde from Vrije Universiteit Brussel (VUB) Coordinator MSc Marine and Lacustrine Science and Management (Oceans & Lakes)

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