

# VINCENT ONDENG

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## Education

### **African Institute for Mathematical Sciences - Rwanda**

Kigali, Rwanda

M.sc. Mathematical Sciences

Sept 2024 - Ongoing

Relevant Coursework: Statistical Regression, Statistical Machine Learning, Python Programming, Database and Database Management, Big Data Analysis with Python

### **University of Nairobi**

Nairobi, Kenya

B.sc. Geospatial Engineering. GPA 3.62/4

Grad Sept 2023

Thesis: Mapping Malaria Distribution in Kisumu County, Kenya

Relevant Coursework: Digital Image Processing, GIS, Geospatial Data Infrastructure, Remote Sensing Systems, Geospatial Statistic, Spatial Planning and Design

## Work Experience

### **African Population and Health Research Center (APHRC)**

Nairobi, Kenya

Research intern

April 2024 - September 2024

- Participate in research team meetings to discuss project objectives, methodologies and project updates for the Integrated Deprived Areas Mapping System (IDEAMAPS).
- Analyze quantitative and qualitative data using statistical software and geographical tools such as ArcGIS and Python and R
- Develop proposals on flood modeling and urban heat mitigation strategies.
- Conduct training workshops and seminars for APHRC staff and partners on the applications of GIS in various sectors.
- Lead Focus Group discussion in Participatory Action Mapping.

### **Widacom Technologies Limited**

Nairobi, Kenya

GIS Intern

June 2023 - March 2024

- Perform data processing, reformatting and spatial analysis to support the activities of various programs
- Assist in map production and related cartographic support using ESRI ArcGIS and other GIS tools.
- Propose Innovative ideas for the application of GIS to complement engineering services offered by the company.
- Attend internal and external meetings with clients and perform any other tasks assigned.

### **Ministry of Lands and Physical Planning- Survey of Kenya**

Nakuru, Kenya

Survey Assistant

June 2022 - Sept 2022

- Conducted boundary reestablishment and topographic surveys for large-scale land parcels.
- Review and verify mutation forms to ensure compliance with land registration requirements.
- Streamline coordinate transformations to enhance survey accuracy.

### Skills

**Technical:** Big Data Analysis, Spatial analysis, Python for data science, Statistical Analysis with R, Project Management, Apache Spark, Statistical Machine Learning

**Personal:** Adaptable to different work environments, problem solving, emotional intelligence, team player, innovative and critical thinker, effective communication

**Language:** English [IELTS overall 7.5], Kiswahili [Fluent]

### Community and Volunteer Experience

**Midrift Hurinet**

Volunteer

Nakuru, Kenya

June 2021 - August 2022

- Data collection and Analysis
- Utilized Excel to process field data and to identify trends and patterns.
- Providing mapping support during field events through navigation and resource allocation
- Organization and completion of documents to ensure accuracy and compliance with established protocols.

### Awards, Scholarships and Prizes

1. **Bill and Melinda Gates Foundation Scholarship (2024)**- Awarded to pursue a Masters in Mathematical Sciences at the African Institute for Mathematical Sciences.
2. **Institute of Engineers of Kenya Best Final Year Project in Geospatial Engineering (2023)** – Recognition for an outstanding research project utilizing geospatial engineering technologies for Malaria risk mapping.
3. **RCMRD International Conference – Best Poster Presentation Award (2024)**: Improving the Analysis of Harmful Algal Blooms along the Kenyan Coast using Machine learning and deep learning techniques for accelerated Satellite Image Processing.

### References

**Prof Faith Karanja**

Associate Professor

Department of Geospatial and Space

Technology

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