

# KEVIN ONG'ARE OLUOCH

## Objective

To pursue a career in research as a postdoc, working to provide everyday solutions.

## Experience

**International Maize and Wheat Improvement Centre (CIMMYT-Nairobi) | Geospatial and Data Management Consultant – February 2018 till now**

Processing geospatial data layers to support spatial analysis, generating GIS products (maps, Shinyapps), documenting GIS analysis, writing scripts to monitor and check data collected using ODK (Open Data Kit) applications and Writing scripts to automate data harvesting and processing from ODK

**KEMRI-Wellcome Trust Research Programme (Department of Virus Epidemiology and Demographic Research) | Bioinformatician (Internship) – January 2017 to August 2017**

Developed and processed bioinformatics computation pipelines (variant calling, Genome assembly) on a Linux server. Made presentations at seminars and attended workshops on Epidemiology, Research ethics, Clinical trials and Biostatistics.

## Education

**BSc. (Geospatial Engineering), University of Nairobi, (October 2010 to April 2015)**

**First Class Honours**

**Project Title:** Use of Geospatial Technologies in Improving the Accuracy of Cadastres Based on Preliminary Index Diagrams. Case Study: Dago Location, Kisumu County

**Main findings:** The access(digitized) and accuracy of the Preliminary Index Diagrams was improved. The parcel shapes were distorted when a General Polynomial Transformation was used. There were minimal changes in the shapes when a Conformal Polynomial Transformation was used

## Skills

**Geographic information system:** analysis using Python, R, ArcGIS, QGIS\Grass, and Global Mapper.

**Land Surveying:** Cadastral, Engineering and Topographical surveying using a total station, handheld GPS, level and Geodetic GPS.

**Computer Programming:** C, D, R, Python, Linux shell, SQL, Common Workflow Language, Nextflow, BigDataScript, Bpipe. HTML, CSS, and JavaScript ( <https://github.com/KevinOluoch> ).

**Other:** Statistics, Scientific writing, Presentations, Microsoft Office suite