



# THE TECHNICAL UNIVERSITY OF KENYA

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NAME: DR JACINTA SYOKAU KIMUYU

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|----------------------|---|
| Faculty:             | ENGINEERING AND THE BUILT ENVIRONMENT                 |
| School:              | Surveying and Geospatial Science                      |
| Department:          | GEOGRAPHY AND SPATIAL SCIENCE                         |
| Current Designation: | Senior Lecturer, GEOGRAPHY AND SPATIAL SCIENCE (DGSS) |
| Office Telephone:    | +254(020) 2219929, 3341639, 3343672                   |
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| Consultation Hours:  | 8AM-5PM MON - FRI                                     |



## EDUCATION

| LEVEL                      | QUALIFICATION NAME                       | INSTITUTION                           | YEAR |
|----------------------------|--|---------------------------------------|------|
| Doctor of Philosophy (PhD) | METEOROLOGY                              | UNIVERSITY OF NAIROBI(Kenya)          | 2015 |
| Masters of Science (M.Sc.) | ENGINEERING IN GEOMATICS                 | UNIVERSITY OF CAPE TOWN(South Africa) | 2007 |
| Bachelor of Science (BSc)  | SURVEYING                                | UNIVERSITY OF NAIROBI(Kenya)          | 1999 |
| O level/Equivalent         | KENYA CERTIFICATE OF SECONDARY EDUCATION | MBOONI GIRLS HIGH SCHOOL(Kenya)       | 1992 |
| O level/Equivalent         | KENYA CERTIFICATE OF SECONDARY EDUCATION | MBOONI GIRLS SECONDARY SCHOOL(Kenya)  | 1992 |
| KCPE/Equivalent            | KENYA CERTIFICATE OF PRIMARY EDUCATION   | MATILIKU PRIMARY SCHOOL(Kenya)        | 1988 |

## WORK EXPERIENCE

| PERIOD               | INSTITUTION                   | POSITION           |
|----------------------|-------------------------------|--------------------|
| July, 2014 - TO DATE | TECHNICAL UNIVERSITY OF KENYA | LECTURER           |
| May, 2010 - TO DATE  | UNIVERSITY OF NAIROBI         | PART TIME LECTURER |
| May, 2010 - 2014     | TECHNICAL UNIVERSITY OF KENYA | ASSISTANT LECTURER |
| 2008 - 2010          | UNIVERSITY OF NAIROBI         | TUTORAL FELLOW     |
| 2003 - 2007          | UNIVERSITY OF NAIROBI         | GRADUATE ASSISTANT |

#### GENERAL STATEMENT ON RESEARCH AREAS

APPLICATION OF GEOINFORMATICS IN CLIMATE CHANGE ADAPTATION AND MITIGATION, ECOLOGICAL NICHE MODELING AND GEO-STATISTICS, SPATIAL PLANNING & URBAN MODELING, DISASTER MAPPING AND RISK REDUCTION, AGRO-ECOLOGICAL ZONING

#### CURRENT RESEARCH PROJECTS

|   |   |
|---|---|
| APPLICATION OF REMOTE SENSING TECHNIQUES IN BIOMEDICAL ENGINEERING: DIGITAL MAPPING OF HUMAN BRAIN TUMOR. | BSC ENGINEERING SURVEY                                      |
| PRECISION AND ACCURACY OF TRI-DIMENTIONAL LOCALIZATION IN STATSCAN DIGITAL MEDICAL RADIATION              | MSc (GEOMATICS ENGINEERING)                                 |
| ECOLOGICAL NICHE MODELING OF MALARIA VECTOR DISTRIBUTION FOR CLIMATE CHANGE ADAPTATION IN KENYA           | PhD METEOROLOGY ( CLIMATE CHANGE ADAPTATION AND MITIGATION) |

#### SELECTED PUBLICATIONS

| TITLE   | LINK TO PUBLICATION         | YEAR |
|---|-----------------------------|------|
| Kimuyu, J. S. (2015). Ecological Niche Modeling Of Malaria Vector Distribution For Climate Change Adaptation In Kenya (Doctoral dissertation, University of Nairobi). | <a href="#">View online</a> |      |
| Kimuyu, J. S. (2006). Precision and Accuracy of Tridimensional Localization in Statscan Digital Medical Radiology (MSc dissertation, University of Cape Town).        | <a href="#">View online</a> |      |
| CO-AUTHOR, March, 2016: TECHNICAL REPORT OF INSTITUTION OF SURVEYORS OF KENYA DESKSTUDY ON MINIMUM AND MAXIMUM LAND HOLDING ACREAGE IN KENYA                          | <a href="#">View online</a> |      |

#### POSTGRADUATE STUDENTS SUPERVISION

| <b>NAME</b>      | <b>PROJECT TITLE</b>   | <b>PERIOD</b> |
|------------------|--|---------------|
| CELESTINE, N.W   | FLOOD MONITORING ON NAIROBI RIVER  | 2013          |
| FAITH, RUTO      | USING GIS TO IMPROVE ON RATES AND RENTS COLLECTION IN LOCAL AUTHORITY.             | 2012          |
| JULIUS ROTICH K. | TECHNICAL ASSESSMENT OF KENYA-SOUTH SUDAN INTERNATIONAL BOUNDARY; COMPLETED BPHIL. | 2012          |
| TALAM, PHILIP    | USING GEOINFORMATION TECHNOLOGY TO MANAGE CDF.                                     | 2012          |
| JACO M.K.        | CREATION OF A PROTO TYPE CRIME DATABASE  | 2011          |
| KEVIN M.G.       | LAND COVER CHANGE DETECTION ABERDARE RANGE FOREST                                  | 2011          |
| LALI DULLU       | USING RECTIFIED PHOTOGRAPHS TO DETERMINE A CREAGES OF SELECTED PARCELS IN VOI AREA | 2013          |

#### PROFESSIONAL AFFILIATIONS AND SOCIETIES

##### TITLE INSTITUTION

|        |                                     |
|--------|-------------------------------------|
| MEMBER | INSTITUTION OF SURVEYORS OF KENYA   |
| MEMBER | ESRI SUPPORTED GIS KENYA USER GROUP |

#### EXTRA INFORMATION

##### DESCRIPTION

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CONSULTANT AND DIRECTOR OF GEOSAT SPATIAL CONSULTANCY