



THE TECHNICAL UNIVERSITY OF KENYA

Haile Selassie Avenue, P.O. Box 52428, Nairobi, 00200, Tel +254(020) 343672, 2249974, 2251300, 341639

Fax 2219689, Email: vc@tukenya.ac.ke, Website: www.tukenya.ac.ke

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 |
| Official Email: | jacinta.kimuyu@tukenya.ac.ke |
| Consultation Hours: | 8AM-5PM MON - FRI |



EDUCATION

| LEVEL | QUALIFICATION NAME | INSTITUTION | YEAR |
|----------------------------|--|---------------------------------------|------|
| Doctor of Philosophy (PhD) | CLIMATE CHANGE ADAPTATION | 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 |
| Certificate | KENYA CERTIFICATE OF PRIMARY EDUCATION | MATILIKU PRIMARY SCHOOL(Kenya) | 1988 |
| O level/Equivalent | KENYA CERTIFICATE OF SECONDARY EDUCATION | MBOONI GIRLS HIGH SCHOOL(Kenya) | 1992 |

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

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| 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 PULICATION |
|---|---|
| Kimuyu, J. S. (2015). Ecological Niche Modeling Of Malaria Vector Distribution For Climate Change Adaptation In Kenya (Doctoral dissertation, University of Nairobi). | http://erepository.uonbi.ac.ke/bitstream/handle/11295/90873/Kimuyu_Ecological%20Niche%20Modeling%20Of%20Malaria%20Vector....pdf?sequence=2&isAllowed=y |
| Kimuyu, J. S. (2006). Precision and Accuracy of Tridimensional Localization in Statscan Digital Medical Radiology (MSc dissertation, University of Cape Town). | http://137.158.155.94/bitstream/handle/11427/10923/thesis_ebe_2006_kimuyu_js.pdf?sequence=1 |
| CO-AUTHOR, March, 2016: TECHNICAL REPORT OF INSTITUTION OF SURVEYORS OF KENYA DESKSTUDY ON MINIMUM AND MAXIMUM LAND HOLDING ACREAGE IN KENYA | https://www.google.co.ke/?gws_rd=ssl#q=institution+of+surveyors+of+kenya |

POSTGRADUATE STUDENTS SUPERVISION

| NAME | PROJECT TITLE | PERIOD |
|------------------|--|--------|
| 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 PHOGRAPHS 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

CONSULTANT AND DIRECTOR OF GEOSAT SPATIAL CONSULTANCY