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| Calyne Khamila  *Remote sensing analyst*  🖂 [ckhamila2010@gmail.com](mailto:ckhamila2010@gmail.com)  /calyne-khamila Icon  Description automatically generated SpaceTechn |  | I have a background in environment with more than 3 years of using remote sensing data, GIS, machine learning algorithms and quantitative spatial statistical modelling support natural resources and urban management initiatives. |
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| Experience |  | Education |
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| *January 2022 - current*  Remote sensing analyst Regid Carbon Kenya   * Working on forest biomass mapping and carbon estimation using satellite imagery, allometry equations and machine learning   *June 2020 – March 2021*  GIS specialist *Digireg BV Netherlands*   * Trained CNN model for urban land cover mapping * Conducted stereo-mapping of the urban environment using aerial images and google earth * Performed Quality control and assurance of data, checking and correcting errors   *March 2016 – August 2017*  Forest remote sensing specialist Farm Forestry Smallholders Producers Association of Kenya   * Provided geospatial support to planning of farm forestry transformation plans * Did mapping and monitoring of forestry resources * Conducted data analysis and modelling of ecosystem services * Collaboratively developed a business model for sustainable farm forestry production * Worked with farmers at grassroot level to promote farm forestry production   **Research/highlighted projects**   * MSc Thesis: I have written a paper in consultation with Associate professor Dr Thomas Groen for publication. The paper examines the tradeoffs between productivity and biodiversity of European Forests. The original thesis is available at *http://essay.utwente.nl ›Khamila* * I am currently working on a paper combining sentinel-1 and sentinel-2 data in google earth engine to determine the spatial pattern and temporal dynamics in savanna vegetation in Maasai Mara Ecosystem in Kenya * I did a project on using cross polarized PALSAR sensor of ALOS-2 satellite data to model above ground biomass of tropical rainforest in East Kalimantan in Indonesia * I presented a paper during the 2014 Stockholm Environmental Institute (SEI) write-shop on transition to modern energy systems |  | *September 2017 – March 2019*  MSc Geoinformation Science and Earth Observation  Specialization in Natural Resources Management  ITC University of Twente, Netherlands  *May 2011 – December 2015*  BSc Environmental Science  Kenyatta University, Kenya  **Personal Training (MOOC)**   * Using Google Earth Engine for land monitoring ***ARSET NASA*** * Agricultural Crop Classification with Synthetic Aperture Radar and Optical Remote Sensing ***ARSET NASA*** * Forest cover mapping and monitoring with Synthetic Aperture Radar ***ARSET NASA*** * Spatial data science: the new frontier in data analytics ***ESRI*** * Python for Everyone ***ESRI*** |
| Skills |
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| ***Software:*** R, Python, QGIS, ArcGIS, Google Earth Engine, ERDAS Imagine, eCognition, SNAP  ***Languages:*** English (full professional proficiency), French & Dutch (limited professional proficiency, Swahili (native) |