

Mr. Olivier Kalala

Portfolio: <https://olivierkalala.github.io/olikalalaGISAnalyst.github.io/>

INFORMATION

Date of birth	19.02.1994	Email	olivierkalala94@gmail.com
Nationality	Democratic Republic of the Congo	Alternative Email	olivier_kalala@yahoo.com
Gender	Male	Mobile 1	+243 974 822 356
Address	Bukavu, South-Kivu	Mobile 2	+243 898 456 628

SKILLS

Remote sensing and satellite image analysis	> 5 years
GIS, Spatial Data Systems and Google Earth Engine	> 5 years
Microsoft 356 applications	> 5 years
Web Development and Administration	3 - 5 years
Research, Reporting et Publications	5 years
Data analysis with R, Python, SPSS, Stata	3 - 5 years
Knowledge of Power BI, Tableau, Adobe Illustrator	3 years
Web Mapping with Google API and Map Box	3 - 5 years
District Health Information Software 2 (dhis2)	1 - 2 years

PROFESSIONAL EXPERIENCE

07.2023 – 12.2023	Researcher and Data Analyst (Consultant)	CRSN (Centre for Scientific and Natural Research)
South-Kivu, DR Congo	<p>Project: Evaluation of the Impact of natural hazards and mitigation strategies in Kalehe territory, South-Kivu, Democratic Republic of Congo.</p> <ul style="list-style-type: none">✓ Coordinated the comprehensive collection of primary and secondary data concerning past natural disasters, risk factors, and local vulnerabilities.✓ Utilized advanced statistical analysis techniques and GIS tools to process and analyze the extensive dataset acquired.✓ Developed risk models to assess natural threats, with particular consideration of geographical factors.✓ Assessed the impact of historical natural disasters on the local community, drawing critical insights.✓ Authored detailed reports and presented the findings, along with strategic recommendations.✓ Developed a web map platform for seamless information sharing among the research team.	
01.2023 - 06.2023	GIS Specialist (Consultant) Remote	DigiEnvi Services
Lagoon, Nigeria	<p>Project: Environmental Impact Assessment in the Lagoon Catchment, Nigeria.</p> <ul style="list-style-type: none">✓ Led the gathering, cleaning, transformation, and management of geospatial data to support GIS analysis.✓ Monitored and analyzed sea level impact in the catchment, highlighting areas vulnerable to coastal flooding.✓ Developed advanced geospatial models to simulate stormwater management and identify areas prone to flooding in the event of intense rainfall events.✓ Contributed to the analysis of climate data to evaluate the potential impacts of climate change and identify future trends and scenarios.✓ Integrated various environmental data, encompassing water quality, vegetation, biodiversity and land use, to comprehensively assess the ecosystem's state.✓ Designed informative maps and data visualizations to facilitate a clear and effective presentation of results to stakeholders and decision-makers.	
07.2022 - 11.2022	Computer Sciences instructor (Remote work)	CSWOI / UNV
Johannesburg, SA	<p>Project: Project to improve Education through E-Learning in Johannesburg, South Africa.</p> <ul style="list-style-type: none">✓ Designed and developed interactive online courses in computer science adapted to various skill levels.✓ Delivered live courses via e-learning platforms, ensuring accessibility to learners regardless of geographical location.✓ Produced regular progress reports, highlighting learner evaluations, successes, and challenges in the e-learning project.	

06.2021 - 07.2022	Information Management Officer	ACORD Uganda
Kampala, Uganda	Project: Development of a decision support tool for water allocation in the Rwizi river catchment area. <ul style="list-style-type: none">✓ Oversaw the comprehensive collection, validation, and management of geospatial data, ensuring data accuracy and integrity.✓ Utilized the Water Evaluation and Planning (WEAP) model to simulate water flows, assess water resource availability, and determine water requirements within the catchment.✓ Integrated geographical data into the modeling process, utilizing GIS tools to map catchment features, hydrological networks, and recharge zones.✓ Designed and developed an Android application to support decision-making based on modeling results, enhancing the efficient management of water resources.✓ Employed Business Intelligence tools to analyze data resulting from the modeling, generating dashboards and reports for visualizing information.✓ Conducted training sessions for team members and stakeholders in the use of the decision tool and GIS.	
02.2020 – 07.2020	GIS Analyst (Consultant)	WCS
Kampala, Uganda	Project: Mabira forest Inventory, planning and management project. <ul style="list-style-type: none">✓ Supervised the collection and management of forestry data, ensuring data accuracy and consistency.✓ Employed advanced GIS tools to analyze forestry data, encompassing forest cover, biodiversity, and ecosystem dynamics.✓ Produced detailed maps to visualize forest characteristics and facilitate decision-making.✓ Created visual presentations to effectively communicate forestry data to stakeholders.✓ Provided technical support to field teams in data collection and GIS tool usage in the field.✓ Maintained GIS databases to ensure continuous data availability.✓ Performed advanced spatial analyses to identify trends, correlations, and patterns in demographic data, enabling informed forest management decisions.	
11.2019	GIS Analyst (Consultant on behalf MUK)	Uganda Bureau of Statistics
Kampala, Uganda	Project : Uganda 2020 population Census project. <ul style="list-style-type: none">✓ Established a geographic database to streamline the management and validation of population census data.✓ Created a survey form using Survey123, an ESRI product, for data collection with geolocation.✓ Provided training and technical support in the use of the Survey123 form and data encoding in the database.	
01.2018 – 12.2018	GIS Officer	Ministry of Public Health
South-Kivu, DR Congo	Project: Mapping and Geospatial analysis of Health zones and hospitals in South-Kivu. <ul style="list-style-type: none">✓ Directed and supervised the project, ensuring smooth operations, team coordination, and adherence to project timelines.✓ Supervised the collection of geographical and health data, guaranteeing their quality and validation.✓ Integrated geographic and health data to create a comprehensive geospatial database.✓ Performed spatial analyses to identify trends and correlations in the data.✓ Produced informative maps displaying geospatial data for health zones and hospitals.✓ Organized training sessions for staff, enhancing their GIS proficiency.✓ Authored detailed reports on the project's results.	
11.2017 – 12.2017	GIS Analyst (Consultant)	VLIRUOS
South-Kivu, DR Congo	Project: Mapping the dynamics of changes in land use and land cover in Luhwindja, South-Kivu, DR Congo.	
10.2017	STATISTICIAN (Consultant)	Land-Rush
South-Kivu, DR Congo	Project: Analysis of demographic dynamics on land use and land cover in Walungu, South Kivu, DR Congo.	
EDUCATION		
09.2020 – 02.2023	Master’s Degree	Geographical Information Sciences and Technology
MAKERERE University of Kampala, Uganda		
09.2015 – 07.2017	BAC + 5 Graduate	Water and Forests Management
Catholic University of Bukavu (UCB), DR Congo		
09.2011 – 09.2015	BAC + 3 Undergraduate	General Agronomy
Catholic University of Bukavu (UCB), DR Congo		

TRAININGS

2023	Data Analytics Bootcamp Certificate	Alexander Freberg
2021	Certificate in Imagery and Data Analysis	ESRI MOOC
2019	Certificate in Information Management and Computer Sciences	ISBAT University
2018	Certificate in Geographic Information System with ArcGIS Pro	ESRI Kigali

LANGUAGES

French	Mother tongue
English	Excellent oral / written and communication (Working Knowledge)

PUBLICATIONS

1. *Lake Kivu River Tributaries Physicochemical Characteristics and Status of Waters, Democratic Republic of Congo Side*. Scholars Academic Journal of Biosciences. ISSN 2347-9515 (Print) | ISSN 2321-6883 (Online). 11 (4). 2023. **(A.O Kalala)**.
https://www.researchgate.net/publication/370047348_Lake_Kivu_River_Tributaries_Physicochemical_Characteristics_and_Status_of_Waters_De_mocratic_Republic_of_Congo_Side
 2. *Past hydrological drought characteristics of river Enyau Sub-Catchment, Northern Uganda*. International Journal of Agricultural Sciences (IJAS) ISSN: 2167-0447 Vol.11 (10). Pp. 001-012, 2021. **(A.O Kalala)**. <https://doi.org/10.46882/IJAS/1445>
 3. *Land use/cover dynamics around forest ecosystems of Kabare and Idjwi areas in Democratic Republic of Congo using GIS and remote sensing*. Journal of Biodiversity and Environmental Sciences (JBES) 14 (1), 185-193, 2019. **(A.O Kalala)**.
<https://innspub.net/jbes/study-land-use-cover-dynamics-around-forest-ecosystems-kabare-idjwi-areas-democratic-republic-congo-using-gis-remote-sensing/>
 4. *Assessment of river water quality using macroinvertebrate organisms as pollution indicators of Cirhanyobowa River, Lake Kivu, DR Congo*. International Journal of Current Microbiology and Applied Sciences (IJCMAS) 8(4): 2668-3680, 2019. **(A.O Kalala)**.
<https://doi.org/10.20546/ijcmas.2019.804.310>
- Responsibilities:** Contribution to drafting; Development of methodology; Analysis and interpretation of results.
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- Responsibilities:** Main Author; Contribution to drafting; Development of methodology; Analysis and interpretation of results.
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REFERENCES

Dr Stephane Bikoro	UNICEF / MCH and HIV Specialist	smbikoro@unicef.org / stephanbikoro@yahoo.fr	Bangui, CAR	French
Gédéon Banswe	WHO HQ / GIS Center for Health / GIS Specialist	bansweg@who.int / gedeonbanswe@yahoo.fr	Geneva-Switzerland	French, English
Lance D. Scott	Portmore Community College and DigiEnvi Services / Researcher, Senior lecturer and Consultant	Lancescottinternational@gmail.com / digienviservices@gmail.com	Portmore, Jamaica	English