

Curriculum Vitae – Ir. Msc Joseph Désiré KANDALA

Personal Information

Name : Joseph Désiré KANDALA

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Email : josephkandaladesire@gmail.com

Nationality: Congolese

Languages: French (Excellent), English (Intermediate – B1)

Professional Profile

Dynamic and multidisciplinary Forest Engineer and Biostatistician with over 15 years of experience in forest resource management, environmental data collection, and applied biostatistics. Strong expertise in spatial analysis, Bayesian and geo-additive modelling, forest inventory, and carbon estimation. Dedicated to research, teaching, and innovation in sustainable natural resource management, environmental and health statistics, and geospatial data applications.

Education

2024 – 2026 : MSc in Biostatistics, University of Abomey-Calavi (UAC), Benin
Forest Biomathematics and Estimation (LABEF)

2013 : Professional Training, JICA & JAFTA, Tokyo, Japan
Monitoring of Forest Resources and REDD+ Processes

2008 : MSc (Licence) in Agronomic Engineering, University of Kinshasa (DRC)
Natural Resource Management (Fauna & Flora)

2005 : BSc in Agronomy, University of Kinshasa (DRC)
Natural Resource Management

Current Position

Surveying Engineer Manager

Division of Forest Inventory, Ministry of Environment and Sustainable Development, DRC

Registration No.: 818.369

Grade: ATB1 (2008 – Present)

Responsibilities:

- Supervise Forest inventory and carbon estimation projects.
- Manage field teams and data collection operations.
- Contribute to national forest monitoring and REDD+ programs.
- Coordinate spatial and statistical analysis for resource management.

Professional Experience

2025 (22–25 Sept) : Participant, Advanced Biostatistics Regional Workshop (APHRC & SSACAB), Dakar, Senegal

Focus: Bayesian and spatial models, regression in R, geo-additive modelling, and data visualization.

2025 (17–18 Oct) :Participant, Introduction to Spatial Analysis, Gates Foundation

2025 (14–17 Oct) : Participant, Seminar on Artificial Intelligence in Education, LABEF, UAC, Benin

2024 – Intensive English Training (72 hours), TBC Benin

2020–2021 :Assistant Team Leader, CAFI Project, Sankuru Province

Dendrometric, soil-botanical, and socio-economic surveys.

2017–2018 : Team Leader, Forest Inventory Project, Tshuapa Province (CAFI & FAO)

Managed finances, coordinated fieldwork, and supervised carbon and biomass data collection.

2014–2016 : Deputy/Assistant Team Leader, DIAF/JICA Forest Projects (Bandundu & Orientale Provinces)

Conducted pre-inventory mapping, ensured data accuracy, and supported REDD+ activities.

2013–2014 :Visiting Researcher, Division of Epidemiology & Biostatistics, School of Public Health, University of the Witwatersrand, South Africa

Project: Inequalities in Reproductive Health (British Council-funded).

Specialized Trainings

2025 : Introduction to AI & Prompt Engineering (LABEF, UAC (Benin)

2025 :Advanced Biostatistics (Bayesian & Spatial Modelling) (APHRC & SSACAB (Senegal)

2025 : Accelerated Course on Missing Data (Division of Epidemiology and Biostatistics, School of Public Health, University of the Witwatersrand, Johannesburg, South Africa.)

2024 : Scientific & Communication English (72 hours) (TBC Benin)

2023 : NDC Transparency and Monitoring (FAO, DRC)

2016 : Wildlife Biological Inventory (WWF & DIAF, DRC)

2015 : Reference Emission Levels, R Software, Forest Biomass (JICA, JAFTA, FAO)

2014 : Climate, Environment & Forest Change (Caritas Congo & AFD)

2011 : Field Botany, REDD+, Dendrometry, Carbon Measurement (ITTO, WCS, UNIKIS, JICA) Technical and Computer Skills

Statistical Analysis:

R, SPSS, STATA, SAS, Python, MATLAB

GIS & Spatial Analysis:

ArcGIS, QGIS, GPS Data Processing

Data Collection:

KoboCollect, Survey123

Scientific Writing:

LaTeX, MS Office Suite

Field Instruments:

GPS, Vertex, Compass, Trupulse

Research Interests

- Geospatial and Bayesian modelling in health and environment
- Environmental and forest biostatistics
- Spatial epidemiology of malnutrition and health inequalities
- Biomass and carbon dynamics for sustainable forest management

Publications

1. Kandala N.B., Jocelyn M., Kandala J.D. (2013). An Exploratory Spatial Analysis of Geographical Inequalities of Birth Intervals among Young Women in the Democratic Republic of Congo (DRC). Division of Epidemiology and Biostatistics, School of Public Health, University of the Witwatersrand, Johannesburg, South Africa.
2. Kandala J. (2008). Analyse de la flore urbaine : Cas de la commune de Barumbu. MSc Dissertation, University of Kinshasa (unpublished).
3. Kandala J. (2005). Étude sur la sécurité alimentaire à Kinshasa : Cas de la commune de Barumbu. BSc Dissertation, University of Kinshasa (unpublished).

References

1. **Mr. Matanda Kafunda Maurice** – Director, Head of Department, DIAF, Ministry of the Environment, Sustainable Development and New Climate Economy, DRC
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2. **Prof. Dr. Ngianga-Bakwin Kandala**
Professor of Biostatistics, Schulich School of Medicine & Dentistry, Western University, Canada.
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3. **Prof. Dr. Ir. Romain Lucas Glèlè Kakaï**
Director, Laboratory of Biomathematics and Forest Estimation (LABEF), University of Abomey-Calavi (UAC), Benin
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Certification

I, the undersigned, certify that all information provided above is true and accurate.

Kinshasa , 22 October 2025



Ir. MSc Joseph Désiré KANDALA