

## **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 Kakäï**  
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**