

# Héritier Kondjo KOY

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## SUMMARY

Agricultural engineer with a master's degree in integrated management of tropical forests and territories. Specialized in wildlife management with proven experience in remote sensing (radar and optical) and Geographic Information Systems (GIS). Good knowledge of forest ecosystems in the Congo basin region, particularly in the Democratic Republic of Congo. Proven experience in participatory zoning/ mapping of community lands and resources. More than 15 years of experience in land use mapping and estimation of forest areas (deforestation, degradation, and gain). Long experience in collaborating with international agencies, universities and multilateral/bilateral programs involved in estimating activity data for emissions calculation in the framework of REDD +.

## EDUCATION

- 2012:** Master's degree in integrated management of tropical forests and territories (ERAIFT/Kinshasa).  
**2006:** MS in Agricultural Engineering in natural resources management, option Fauna and Flora at the University of Kinshasa.  
**2004:** Bachelor's degree in Agronomy / University of Kinshasa.

## PROFESSIONAL EXPERIENCE

**April 2023 – present:** Faculty specialist, Department of Geographical Sciences (University of Maryland)

**April 2004 - present:** Expert at the Ministry of Environment and Sustainable Development of the DRC (MEDD) at the Direction: Direction des Inventaires et Aménagement Forestiers (DIAF).

**May 2021 – March 2023:** National Consultant at FAO: to produce a mapping of tree cover changes between 2015 and 2020 in DRC, production of an estimate of the area of deforestation and forest degradation at the national scale between 2015 and 2020, analysis and revision of errors of omission and commission of the maps and estimates produced, identification and quantification of current and historical direct drivers of deforestation and forest degradation at the national scale.

**01-22 February 2021:** International Consultant (Geospatial specialist) at FAO, to support the collection of accuracy assessment data for the Democratic Republic of Congo and some African countries in the remote sensing survey of the Global Forest Resources Assessment 2020: Improving global forest management through better information on the world's forests (FRA REMOTE SENSING SURVEY - FRA RSS 2020).

**January 2017- April 2021:** National expert (DIAF and FAO), Analysis and processing of satellite images, Segmentation, classification and interpretation of satellite images, detection of changes in deforestation between the period 1990 and 2010, calculation of areas (statistics) of forest, non-forest, degradation and deforestation strata, analysis and processing of reference data from very high spatial resolution images on the Open FORIS Collect Earth tool developed by the FAO and field missions : Luki Biosphere Reserve (collecting samples on dense forests, secondary forests and the cultivation stratum and regeneration of abandoned crops in the field in order to harmonize views on the assignment of classes on satellite images) and other missions to validate forestry mapping products.

**October - November 2018 and October - December 2019:** (DIAF-UMD) National expert, Analysis and processing of satellite images; Classification and interpretation of satellite images, detection of changes

in deforestation between the period 2000 and 2014 over the entire national territory of the DRC, analysis and processing of reference data from very high spatial resolution images 2000-2014 and participation in the work on the Quantification of the Reference Level of the forests of the Emission Reduction Program in the province of Mai-Ndombe, Democratic Republic of Congo.

**April 30 - May 30, 2019:** International Consultant at the UPU (Universal Postal Union), creation of a geo-referenced address database, preparation of a digital map for Ouagadougou and Bobo Dilasso (Burkina Faso), used to organize home delivery and training of Congolese counterparts in the use and exploitation of the geo-referenced address database.

**June - November 2018:** Consultant with the European Commission - Joint Research Centre (JRC) Project: ReCaREDD, Assessment of CO2 emissions arising from forest changes around the city of Kisangani – Democratic Republic of Congo Target reporting epochs: from 2013 to 2014 and from 2015 to 2016.

**October 2016- January 2018:** Consultant at World Wildlife Fund (WWF) in charge of participatory mapping and micro-zoning of village terroirs within the framework of the NICFI 2 project: REDD+ Agreement to REDD+ Result: Generating result to secure consensus (30 village terroirs mapped with a total area of 300,000 hectares).

**April 2014 - April 2015:** Consultant at World Wildlife Fund (WWF) in charge of surveying and mapping former abandoned industrial palm plantations in the former provinces of Equateur, Bandundu and Orientale (Opala, Isangi, Wamba, Watsa, Bafwasende, Niangara, Ubundu) for a reallocation of these former palm plantations.

**April 28 - May 09, 2014:** International Consultant to the UPU (Universal Postal Union), creation of a geo-referenced address database, preparation of a digital mapping for Brazzaville and Pointe Noire (Republic of Congo), used for the organization of home delivery and training of Congolese counterparts in the use and operation of the geo-referenced address database.

**June to December 2014:** Country Consultant with The Wildlife Trade Monitoring Network (TRAFFIC) in charge of collecting relevant information on the exploitation and commercialization of *Guibourtia tessmannii* (Bubinga) and *Millettia laurentii* (Wenge) in the DRC as part of a study conducted by TRAFFIC in the Congo Basin sub-region.

**June 2012 - January 2017:** National Consultant (DIAF-FAO) in the UNJP/DRC/041/UNJ (TerraCongo) project on the Satellite Land Representation System of DRC. Analysis and processing of satellite images; segmentation, classification and interpretation of satellite images, detection of changes in deforestation between 1990 and 2010, calculation of forest, non-forest and deforestation strata statistics and several field missions for quality control and ground truth.

**August 2009 - April 2012:** Consultant at World Wildlife Fund (WWF) in charge of participatory mapping and micro-zoning of village lands in the Ngiri Triangle Nature Reserve /Ecuador Province, the Bikoro-Itipo CBNRM in Ecuador, around the WWF Malebo base in Bandundu Province and in the periphery of the Luki Biosphere Reserve in the case of Kuimba Village. Organization of local communities for better management of their land and natural resources (planning, zoning, development, and management plans). 4 million hectares of land mapped.

**July 2009 to January 2010:** Consultant at the Center for International Forestry Research (CIFOR) in the framework of the MAKALA Project in charge of the Geographic Information System (GIS) of the wood energy sector in the provinces of Bas Congo, Orientale and the city of Kinshasa.

### **WORKSHOPS, TRAININGS, AND INTERNSHIPS**

- Workshop of the FAO FRA 2020 remote sensing survey - Yaoundé, Cameroon, February 24-29, 2020.
- Workshop on sample-based forest area estimation using newly acquired Planet images: (Rome, Italy, January 28-February 03, 2020).
- Workshop of the remote sensing survey of the Global Forest Resources Assessment 2020: Improving global forest management through better information on the world's forests (FRA REMOTE SENSING SURVEY - FRA RSS 2020): Kinshasa, DRC 10-15 December 2019.
- Workshop on monitoring forest degradation by remote sensing for Congo Basin countries at the European Commission joint Research Centre Forest Resources and Climate Unit: ReCaREDD (Ispra, Italy April 19-25, 2015).
- JICA Training on the use of Forest Information System for Sustainable Forest Management (Tokyo: Japan, June 20 to July 5, 2014).
- Woods Hole Research Center (WHRC) Training on forest biomass inventories (Mbandaka, February 10 to February 17, 2010).
- Brazzaville workshop on the validation of the FRA-2010 land use interpretation for the Congo Basin countries (February 01, 2010).
- Kinshasa workshop on the validation of the land use interpretation FRA-2010 for the Congo Basin countries (Brazzaville, September 28th, 2009 - October 10th, 2009).
- Internship at the laboratory of wood biology for a study on wood anatomy and dendrochronology of tropical species (Tervuren, Belgium October 12 to December 05, 2008).

### **LANGUAGE SKILLS**

<b>Language</b>	<b>Reading</b>	<b>Oral</b>	<b>Written</b>
French	Excellent	Excellent	Excellent
English	Good	Good	Good
Lingala	Mother tongue	Mother tongue	Mother tongue

### **TECHNICAL SKILLS**

- Word processing: Microsoft Word, Power Point and Works
- Spreadsheet: Microsoft Excel and Access
- Statistics: R software
- Geographic Information System (GIS): ArcView 3.X and ArcGIS 10.x, QGIS and other GIS
- Perfect handling of GPS (Global Positioning System).
- Remote sensing software: PCI Geomatica, ENVI 4.X, ERDAS Imagine, Ecognition, Google Earth, Engine, SEPAL (BFAST),
- Expert in database management systems (geodatabase)