

10+ Years of Global Experience in Data, Analytics And AI

KONAN Amani Dieudonné



i Ivorian — Male — born in 12 March 1987 in Didiévi, Côte d'Ivoire
📍 Cocody Rivière Faya, Abidjan, Côte d'Ivoire
📞 (+225) 07 47 88 22 35 / (+225) 05 06 84 19 19
✉️ amani_dieudonne@yahoo.fr
LinkedIn linkedin.com/in/amanidieudonnekonan

Global Data, Analytics & AI Leader | Senior Statistician & Data Scientist

Strategic Data, Analytics and AI Leader with over 10 years of international experience delivering enterprise-grade solutions across multilateral organizations and development finance institutions. Recognized for transforming complex data ecosystems into actionable intelligence that fuels innovation, compliance, and strategic decision-making. Track record of leading high-impact data initiatives at Afreximbank, IOM, ICCO, UNHCR, ICRAF, and FHI360—bridging advanced analytics with institutional goals in diverse, cross-cultural environments. Expert in building resilient data pipelines, automating reporting architectures, and driving AI adoption at scale. A trusted partner to executives and technical teams alike, with a strong focus on governance, performance, and long-term value creation.

TRAININGS AND CERTIFICATIONS

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- 2026 Master of Business Administration (MBA), Specialization in Artificial Intelligence, Nxford University
 - 2025 Professional Certificate in Data Engineering, Massachusetts Institute of Technology (MIT)
 - 2025 Applied AI and Data Science Program, Massachusetts Institute of Technology (MIT)
 - 2021 MicroMasters Program in Data, Economics and Development Policy (Massachusetts Institute of Technology)
 - 2020 Financial Modelling and Valuation Analyst FMVA® Certificate (Corporate Finance Institute - CFI)
 - 2017 Masters in Statistics and Econometrics (University Toulouse I Capitole, France)
 - 2015 Data Science Specialization Certificate (Johns Hopkins University)
 - 2012 Statistics and Information System Engineer (ENSEA, Abidjan)
 - 2009 Bachelor in Statistics and Information System (ENSEA, Abidjan)

EMPLOYMENT HISTORY

Currently September 2023	<p>Manager, Data Scientist/Architect, AFREXIMBANK, Egypt</p> <p>Key Responsibilities & Achievements :</p> <ul style="list-style-type: none">➤ Lead the design and deployment of advanced analytics solutions and digital data products using Databricks, SAP Datasphere, and Tableau➤ Build scalable data marts, SQL views, and Python-based pipelines to support enterprise-wide data initiatives and reporting automation➤ Integrate data from core systems and enterprise databases into a centralized warehouse/Lakehouse➤ Deliver internal capacity-building programs and champion adoption of analytics➤ Spearhead the migration of legacy operational datasets into SAP Datasphere to improve analytics➤ Automate computation of the Afreximbank African Commodity Index using Python➤ Design and implement Generative AI Proofs of Concept (Claude Sonnet, LLaMA 3, Gemini via AWS and Databricks) to enhance insight generation and workflow efficiency➤ Rapidly prototype AI-powered applications using DataSpell, Streamlit, Dash, VS Code, and Postman <div style="display: flex; justify-content: space-around; gap: 10px;">DatabricksSAP DatasphereTableauPythonSQL ServerPostgreSQLOracleMongoDBRDockerStreamlitDashDataSpellVS CodePostmanOpenAIClaude SonnetLLaMA 3GeminiAWS</div>
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May 2025 Dec 2024	<p>Data Engineer, INTERNATIONAL TELECOMMUNICATION UNION (ITU), Remote</p> <p>Key Responsibilities & Achievements :</p> <ul style="list-style-type: none"> ➤ Designed and implemented an automated ETL pipeline on Databricks to process heterogeneous infrastructure datasets from six countries (.csv, .xlsx, .gpkg, .tiff) ➤ Developed a dynamic Data Quality (DQ) framework with rule-based checks (completeness, consistency, geographic integrity) and generated dual-format reports (.csv/.xlsx) with diagnostics and remediation ➤ Integrated backend logic into the CPP toolkit frontend, enabling users to upload data, trigger pre-processing, and download reports via a seamless web interface ➤ Delivered YAML-based configuration for pipeline portability and no-code extensibility ➤ Coordinated full testing and deployment in shared compute environments; produced a video walk-through and technical handover package for long-term sustainability <div style="display: flex; justify-content: space-around; font-size: small; margin-top: 5px;"> Databricks Delta Lake S3 Python YAML Geospatial Data Streamlit Excel PostgreSQL CSV YAML API Integration </div>
September 2023 April 2017	<p>Statistician, INTERNATIONAL COCOA ORGANIZATION (ICCO), Côte d'Ivoire</p> <p>Key Responsibilities & Achievements :</p> <ul style="list-style-type: none"> ➤ Collected, validated, and analyzed global cocoa market data for quarterly and monthly reporting to member countries and stakeholders ➤ Authored and contributed to the <i>Monthly Market Reports</i> and the <i>Quarterly Bulletin of Cocoa Statistics</i>, ensuring timely and accurate dissemination of key insights ➤ Developed and maintained a tailored statistical database application to streamline reporting workflows and improve data consistency ➤ Built forecasting models to project supply, demand, and pricing trends in the global cocoa economy ➤ Led annual stock surveys across European warehouses to estimate regional and global end-of-season cocoa bean inventories <div style="display: flex; justify-content: space-around; font-size: small; margin-top: 5px;"> Econometrics Cocoa Market Analysis Database Development Eviews R Matlab SPSS Excel Access International Trade Survey Design Futures Markets </div>
Aug 2023 May 2023	<p>Researcher (Data Scientist / Statistician), UNITED NATIONS INSTITUTE FOR DISARMAMENT RESEARCH (UNIDIR), Remote</p> <p>Key Responsibilities & Achievements – MEAC Project :</p> <ul style="list-style-type: none"> ➤ Designed and supported implementation of multi-country surveys (Nigeria, Colombia, Iraq, Lake Chad Basin) for disarmament and reintegration research ➤ Programmed and managed digital data collection via SurveyCTO; conducted real-time quality control and liaised with field teams on data consistency ➤ Led data cleaning, harmonization, and analysis pipelines using R and STATA, producing summary reports and evidence-based insights ➤ Conducted multivariate statistical analyses to evaluate post-conflict transition outcomes; translated findings for policy and operational use ➤ Delivered interactive dashboards and visualizations to support stakeholder engagement ➤ Documented workflows, maintained code repositories, and ensured compliance with UN data governance and protection standards <div style="display: flex; justify-content: space-around; font-size: small; margin-top: 5px;"> SurveyCTO R STATA SPSS Power BI Multivariate Analysis Data Governance Large-Scale Survey Design Conflict & Peace Data Policy Reporting Reproducible Research </div>

November 2022	Data Analyst Consultant, INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM), Remote
April 2022	<p>Key Responsibilities & Achievements :</p> <ul style="list-style-type: none"> ➢ Developed reproducible R scripts and markdown reports to analyze Migrant Health and Psychosocial Support (MHPSS) data across 8 West African countries ➢ Conducted impact evaluation analyses on migration in Guinea, The Gambia, Nigeria, and Senegal ➢ Ensured analytical workflows were fully documented and automated for transparency and scalability across future assessments <div style="display: flex; justify-content: space-around; gap: 10px;"> R Markdown Impact Evaluation Data Analysis KoboToolBox R STATA SPSS Excel Access PowerPoint </div> <div style="display: flex; justify-content: space-around; gap: 10px;"> Survey Design Reporting </div>
Feb 2017	KoboToolBox Consultant, UNITED NATIONS HIGH COMMISSIONER FOR REFUGEES (UNHCR), Côte d'Ivoire
Dec 2016	<p>Key Responsibilities & Achievements :</p> <ul style="list-style-type: none"> ➢ Designed and implemented a digital data collection system using KoboToolBox to support field operations and monitoring activities ➢ Trained field personnel on the effective use of online data collection tools and ensured smooth transition from paper-based methods ➢ Digitized all existing UNHCR Côte d'Ivoire data collection instruments and provided ongoing technical guidance to ensure data integrity and reporting consistency ➢ Promoted best practices in online systems for data management and supported capacity development of office-based staff <div style="display: flex; justify-content: space-around; gap: 10px;"> KoboToolBox Excel Access Cspro STATA Power BI </div>
Apr 2017	Monitoring and Evaluation Manager, BARRY-CALLEBAUT (SACO), Côte d'Ivoire
Aug 2016	<p>Key Responsibilities & Achievements :</p> <ul style="list-style-type: none"> ➢ Designed and managed the geotraceability data collection system for the Cocoa Horizons program ➢ Ensured quality and consistency of data from surveys and databases across cooperatives ➢ Led end-to-end project evaluations, including survey design, field execution, and result analysis ➢ Maintained and updated master data for farmer organizations; coordinated regular database reviews ➢ Defined and monitored KPIs through dashboards to inform strategic decision-making ➢ Conducted fieldwork on cocoa demo plots and fermentation practices to evaluate agronomic innovations ➢ Delivered a full Monitoring & Evaluation (M&E) framework and progress tracking systems <div style="display: flex; justify-content: space-around; gap: 10px;"> Monitoring & Evaluation KPI Dashboards Cocoa Traceability Survey Design ODK Impact Evaluation Sampling Excel </div> <div style="display: flex; justify-content: space-around; gap: 10px;"> Access PowerPoint Cspro Capacity Building </div>
July 2016	Consultant, INTERNATIONAL CROPS RESEARCH INSTITUTE FOR SEMID-ARID TROPICS, Mali
July 2016	<p>Key Responsibilities & Achievements :</p> <ul style="list-style-type: none"> ➢ Facilitated hands-on training for multidisciplinary research professionals on the use of Open Data Kit (ODK) and Cspro for digital survey design and data collection ➢ Introduced participants to statistical packages (R, STATA) for analyzing experimental and survey data ➢ Delivered practical case exercises to enhance participants' analytical and data management skills <div style="display: flex; justify-content: space-around; gap: 10px;"> ODK Cspro STATA R Survey Methods Research Training Capacity Building </div>

<p>July 2016</p> <p>November 2015</p>	<p>Monitoring and Evaluation Officer, FAMILY HEALTH INTERNATIONAL (FHI360), Côte d'Ivoire</p> <p>Key Responsibilities & Achievements :</p> <ul style="list-style-type: none"> ➢ Provided technical and statistical support for monitoring and evaluation activities across projects ➢ Designed evaluation analysis plans and developed STATA-based scripts to streamline data processing ➢ Drafted statistical sections of research protocols, study reports, and manuscripts for peer-reviewed ➢ Contributed to the development of four impact evaluation protocols and co-authored an article on adolescent behavioral health <div style="display: flex; justify-content: space-around; gap: 10px; border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> Monitoring & Evaluation Impact Evaluation STATA R Data Processing Protocol Development Excel Access Cspro </div> <div style="display: flex; justify-content: space-around; gap: 10px; border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> Research Writing </div>
<p>October 2015</p> <p>June 2013</p>	<p>Data Manager, INTERNATIONAL CENTRE FOR RESEARCH IN AGROFORESTRY (ICRAF), Côte d'Ivoire</p> <p>Key Responsibilities & Achievements :</p> <ul style="list-style-type: none"> ➢ Designed and implemented Monitoring and Evaluation (M&E) plans for agroforestry and rural development research projects ➢ Developed and maintained project databases to monitor performance indicators and support data-driven decision-making ➢ Conducted over 10 household studies, including baselines, midterms, and endlines, across West Africa ➢ Migrated data collection workflows from paper-based tools to web-based systems using Open Data Kit ➢ Automated data analysis and reporting processes using R, Excel, and Access, improving efficiency ➢ Trained research teams in Kenya, Côte d'Ivoire, and other countries on best practices in data collection and quality assurance ➢ Managed complex experimental and survey datasets; performed statistical analysis using R and STATA <div style="display: flex; justify-content: space-around; gap: 10px; border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> Monitoring & Evaluation Survey Design ODK R STATA Data Management Capacity Building Database Development </div> <div style="display: flex; justify-content: space-around; gap: 10px; border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> Access Excel People Management </div>
<p>June 2013</p> <p>November 2012</p>	<p>Data Manager, PROGRAMME ANRS COOPERATION CÔTE D'IVOIRE (PAC-CI), Côte d'Ivoire</p> <p>Key Responsibilities & Achievements :</p> <ul style="list-style-type: none"> ➢ Harmonized 16 epidemiological datasets from 8 West African countries for the leDEA West Africa consortium, enabling cross-country HIV/AIDS research ➢ Conducted rigorous data quality assurance, validation, and consistency checks prior to submission to the regional hub in Bordeaux ➢ Automated key project indicators reporting using custom-built SQL and VBA scripts, reducing manual effort and improving reproducibility ➢ Produced visual summaries and tabulated indicators for research presentations, reports, and meetings <div style="display: flex; justify-content: space-around; gap: 10px; border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> Data Harmonization Epidemiological Data SQL VBA Process Automation Tabulation Reporting HIV/AIDS Research </div>

LANGUAGES PROFICIENCY

French (Fluent)



English (Fluent)



Spanish (Basic)



SOFT SKILLS

➢ Effective communicator and problem-solver

➢ Self-driven, curious, and highly adaptable

➢ Strong team player with a high level of proactiveness

➢ Detail-oriented and autonomous for action

COMPETENCIES

Statistics and Data Science	Econometric modeling and forecasting, statistical analysis, time series and panel data modeling, predictive analytics, causal inference, and policy evaluation (e.g., interrupted time series); advanced data visualization and reporting; geospatial analytics and thematic/cartographic mapping (QGIS, ArcGIS).
Data Product Development	Full-stack development of data-intensive applications using Python (Streamlit, Dash), R Shiny, and VBA; automation of reporting pipelines; rapid prototyping of tools and dashboards; API development and integration.
Cloud and Big Data Platforms	Databricks (Spark, Delta Lake, Unity Catalog), AWS (S3, Bedrock), SAP Datasphere, PostgreSQL on cloud, CI/CD pipelines, version control (Git), collaborative notebook environments (VS Code, DataSpell, JupyterHub).
Monitoring & Evaluation	Design of monitoring and evaluation frameworks, results-based management (RBM), SMART indicator development, evaluation plans, field coordination, and data harmonization.
Data Engineering & Databases	Design and maintenance of relational databases (PostgreSQL, SQL Server, MySQL, SQLite, Access), data warehousing, ETL pipeline development, data normalization, schema evolution.
Programming Languages	Python, R, SQL, STATA, Eviews, VBA, Cspro, C#, YAML, Markdown, LaTeX.
Mobile Data Collection	Expertise in Open Data Kit (ODK), KoboToolBox, SurveyCTO, SurveyMonkey, EpilInfo, Cspro – from tool design to digital deployment and training.
Other Tools	Tableau, Power BI, QGIS, ArcGIS, GAMS, Scilab, Strapi, Mathematica, GitHub, Postman.

PROJECTS CONDUCTED

VISION FOR CHANGE (V4C), CÔTE D'IVOIRE

SEPTEMBER 2013 – JULY 2015

Key Field Studies and Impact Analyses :

- Assessed determinants of child schooling in cocoa-growing regions
- Conducted deforestation and cash crop practices survey near Taï National Park (ISLA project)
- Analyzed food and cash crop value chains in cocoa communities
- Investigated farmer perceptions on tree planting in cocoa farms
- Led a climate change impact survey in major cocoa zones
- Conducted a nutritional status assessment of rural populations
- Executed a comprehensive baseline survey of project beneficiary areas

Survey Design Sampling Field Statistics STATA R Excel Access PowerPoint Reporting

ACADEMIC RESEARCH PROJECTS

JANUARY – AUGUST 2012

Key Analytical Reports :

- Performed survival analysis and advanced biostatistical modeling
- Delivered a market study for home services enterprise launch
- Analyzed labor market effects of Côte d'Ivoire's post-election crisis

Statistical Modeling Market Analysis STATA R Excel Report Writing

REFERENCES/CONTACT PERSONS

Dr. KOUAME Christophe

Regional Representative, ICRAF

 c.kouame@cgiar.org
 +225 07 07 05 86 90

Dr. BONANNI Leonardo

CEO and Founder, SOURCEMAP

 leo@sourcemap.com
 +1 (617) 851 28 57

Mr. DIALLO Alpha

Head of Administration and Finance, UNHCR

 diallap@unhcr.org
 +225 05 45 79 78 99