OUSMANE DIALLO, PHD

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CERTIFIED SAS CLINICAL TRIALS PROGRAMMER | BIOSTATISTICIAN | PHD IN INFECTIOUS DISEASE

Rigorous biostatistician and epidemiologist with 6+ years of experience in health data analytics and large-scale data management. Seeking to apply SAS programming skills and hands-on training in CDISC standards (SDTM and ADaM) to advance clinical research studies and regulatory submissions. Works collaboratively in a team environment to acquire, curate, clean, analyze, and transform complex surveillance and survey datasets, delivering submission-ready insights and supporting high-quality publications.

Core Competencies

SAS & R Programming • Clinical Trials Programming • Clinical Data Interchange Standards Consortium (CDISC)
Health Data Analytics • Statistical Analysis Plans • Statistical Modeling • Data Cleaning & Transformation
Cross-Functional Collaboration • Communication • Presentations • Data Visualization • Regulatory Compliance
Epidemiology • Public Health • Quality Control (QC) • Troubleshooting • Publication Review • Scientific Writing

EXPERIENCE

NORTHWESTERN UNIVERSITY FEINBERG SCHOOL OF MEDICINE   2025–Present
Research Associate   Chicago, IL
- Serves on global research team, leveraging advanced statistical tools to deliver forecast analyses and ad hoc reports that guide evidence-based decision-making in malaria control programs.
- Develops malaria indicator dashboards with R Markdown and ggplot2, enabling real-time metrics and expanded data communication with donors and technical partners.
- Introduced a structured quality assurance checklist for all malaria indicator dashboards, driving data cleaning and coding consistency. This reduced post-submission corrections by over 50%.
- Developed reusable R scripts and Markdown templates, cutting turnaround for ad-hoc data requests by 40%.
- Conducted exploratory analysis of over 7 years of surveillance data on a collaborative study with the Burkina Faso National Malaria Program and World Health Organization. The analysis guided targeted intervention and is currently being developed into a manuscript for publication.

BLUESQUARE (global health resources data company)   2024–2025
Data Management & Analysis Consultant   Remote (Brussels, Belgium)
- Conducted statistical programming and data analysis to support decision-making and resource allocation.
- Designed data management workflows, performed advanced statistical analyses, and ensured QC.
- Presented findings at major stakeholder sessions—including with the Bill & Melinda Gates Foundation and Clinton Health Access Initiative—to acquire funding approval.

NORTHWESTERN UNIVERSITY FEINBERG SCHOOL OF MEDICINE   2022–2024
Research Assistant Professor   Chicago, IL
- Managed end-to-end analytics and statistical programming for malaria-related studies, from data acquisition to final presentation. Drafted statistical analysis plans, managed workflows, and performed QC.
- Employed knowledge of SAS and R to perform in-depth analyses, leading to successful funding applications.
- Collaborated with cross-functional team, conducting quality checks and peer reviews to ensure data accuracy.
- Authored 5 peer-reviewed publications, expanding evidence base of malaria control. Presented at 3 international conferences and 2 AMMnet webinars on applied malaria modeling.

WORLD HEALTH ORGANIZATION (WHO)   2022
Epidemiology & Data Processing Consultant   Remote (Geneva, Switzerland)
- Cleaned and curated monthly data and datasets, preserving statistical integrity throughout analysis process.
- Streamlined data preparation, organizing multiple years of survey data and slashing analysis time by 30%.
- Analyzed malaria surveillance data from 1,500+ health facilities to detect inconsistencies in facility activity classification. Applied problem-solving skills to develop a more accurate classification algorithm.

EXPERIENCE, continued

NORTHWESTERN UNIVERSITY FEINBERG SCHOOL OF MEDICINE 2020–2022
Postdoctoral Researcher Chicago, IL
- Secured funding from Global Fund for Guinea and Burkina Faso by authoring 2 high-impact technical reports based on advanced data analyses and policy-relevant insights.
- Published 2 scientific papers on malaria intervention strategies, which contributed to mathematical modeling.
- Developed public health analytics algorithms, including an R script that was adopted by national malaria control programs and technical partners.

JEMS GROUP (big data company) 2020
Big Data Consultant Paris, France
- Designed and implemented interactive data visualization dashboards using Tableau and Power BI.
- Increased operational efficiency and ease of analysis by identifying and implementing process improvements, including optimized SQL queries and streamlined filters. This reduced report runtime by 40%+.

AIX MARSEILLE UNIVERSITY 2016–2019
Infectious Disease Researcher (PhD Research) Marseille, France
- Analyzed data from 200+ laboratories, translating findings into actionable policy recommendations.
- Authored 4 peer-reviewed scientific articles and wrote 50+ weekly surveillance bulletins.

EDUCATION

- **Doctor of Philosophy (PhD)**, infectious disease, Aix Marseille University, Marseille, France
- **Master of Public Health (MPH)**, public health, Aix Marseille University, Marseille, France

TRAINING & CERTIFICATIONS

- **SAS Institute:** Certified in SAS Clinical Trials Programming and SAS Base Programming, 2025
- **Johns Hopkins:** Infectious Disease Transmission Models for Decision-Makers, 2024; R Programming, 2017
- **University of Washington:** Probability and Statistical Inference, 2020; MCMC I and II for Infectious Diseases, 2020; Stochastic Epidemic Models with Inference, 2020
- **NATO:** Health Epidemic Investigation and Management in Deployments (HEIMDAL), 2017

TECHNICAL SKILLS

- **Statistical Programming:** SAS (Base, Macro, SQL, DATA Step), R (tidyverse, ggplot2, dplyr, haven, survminer, sf), Python (basic: Pandas, NumPy, Matplotlib), SQL-based queries (SQL Server, PostgreSQL)
- **Statistical Methods & Modeling:** Generalized linear model (GLM), survival, mixed models, generalized estimating equations (GEE), seasonal-trend decomposition using LOESS (STL) of time series
- **Data Visualization & Reporting:** SAS ODS, R/ggplot2, Power BI, Tableau
- **Data Management & ETL:** SAS Data Integration Studio
- **Collaboration & Version Control Tools:** Git/GitHub, R Markdown, Microsoft 365, Zoom, Slack
- **Clinical Trial Standards & Tools:** CDISC Study Data Tabulation Model (SDTM) and Analysis Data Model (ADaM), Define-XML, annotated Case Report Form (CRF), tables, listings, and figures (TLF)

ADDITIONAL INFORMATION

- **Publications:** List of 12 publications available on Google Scholar
- **Language Skills:** Bilingual in English and French
- **Volunteerism**: Volunteer lecturer, University of Conakry, Guinea, 2023