

# Nichodemus Werre Amollo

Research & Data Lead · M&E Specialist · Social Innovation Strategist

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## PROFESSIONAL PROFILE

Research and Data Lead with 8+ years of experience directing complex, multi-country data operations across public health, agriculture, livelihoods, and social protection sectors in East Africa. Combines deep field expertise — survey design, mobile data collection, high-frequency checks, enumerator training — with rigorous analytics: regression modelling, survival analysis, impact evaluation, and automated dashboards. Currently supporting Georgetown University's gui2de programme on health financial diaries and RCT data management across Kenya, Uganda, Tanzania, and Rwanda. Motivated by work that translates data into decisions that reach the people the data was collected from.

## PROFESSIONAL EXPERIENCE

### Lead Biostatistician & Research Data Manager

April 2025 – Present

Georgetown University gui2de — East Africa Regional Hub · Kenya / Uganda / Tanzania / Rwanda (Remote + Field)

- Lead statistical and data systems work for multi-country health systems and implementation research, including the Health Financial Diaries project tracking financial resilience across 1,000+ households.
- Develop and execute statistical analysis plans for observational and mixed-methods studies; conduct multivariable regression, survival analysis, and longitudinal data modelling in R and Stata.
- Architect and deploy scalable data infrastructure: automated ETL pipelines, KoboToolbox / ODK survey configuration, daily high-frequency checks, and real-time Power BI / R-Shiny monitoring dashboards.
- Mentor junior analysts in applied biostatistics, reproducible workflows, and data quality standards; manage research documentation and IRB submissions.
- Partner with government agencies and NGOs to disseminate findings; translate results into policy briefs adopted by national programme teams.

### Senior Data Analyst — Surveillance & Rural Health Research

April 2023 – March 2025

Kenya Medical Research Institute (KEMRI) · Nairobi & Western Kenya

- Managed longitudinal healthcare datasets (2,000+ records) and QA workflows for surveillance sites; built structured cleaning scripts and discrepancy-resolution protocols.
- Designed and implemented regression models, survival analysis, and time-series forecasting (ARIMA) to support early warning systems, reducing alert lag from two weeks to three days.
- Built automated reporting dashboards (Tableau, Power BI) that reduced manual reporting effort by ~60% through standardised indicator refresh and definitions.
- Supported protocol development, sample size estimation, and peer-reviewed manuscript preparation; contributed to three co-authored publications.

### Senior Research Data Manager & Evaluation Lead

November 2021 – April 2023

JOOST & VLIR-UOS Regional Research Programme · Kenya, Uganda, Rwanda

- Managed multi-country research portfolio with 8,000+ observations across 150+ variables; coordinated cross-site data quality, standardised cleaning protocols, and on-time analytical delivery.
- Implemented rigorous RCT evaluation for a youth skills training programme: designed randomisation, managed fidelity monitoring, applied ANCOVA and difference-in-differences estimators.
- Built Theory of Change measurement frameworks with lead researchers; designed survey instruments operationalising economic concepts into measurable indicators.
- Supervised 30+ enumerators and field coordinators; achieved <2% error rates through structured daily HFC, audit trails, and rapid feedback loops.

### Research Data Analyst & Field Coordinator

September 2017 – November 2021

LERIS Hub · Kenya / Uganda border regions

- Designed and conducted mixed-methods research in health, agriculture, and livelihoods; produced 8+ research briefs informing government partners and NGOs.
- Applied causal inference techniques (propensity score matching, regression discontinuity) in non-randomised settings; contributed to peer-reviewed publications.
- Supervised data collection teams across two countries; designed XLSForm instruments, trained enumerators, and maintained documentation for repeatable field cycles.

### Data Specialist — Digital Data Collection

May 2016 – August 2017

## Lake Region Community Development Initiative · Western Kenya

- Rolled out mobile data collection infrastructure (ODK, KoboToolbox) for community programmes; configured forms, validation rules, user roles, and data submission workflows.
- Standardised data templates, ran quality checks, and improved routine reporting for programme teams and government partners.

## S E L E C T E D   C O N S U L T A N C Y

### Technical Lead — PMTCT Effectiveness Study

2024

#### CMMB / Global Fund

- Designed study protocol and statistical framework; led full data analysis and reporting; supported ethics submission and ensured reproducibility.

### Lead Consultant — RAS Uptake Study

2024

#### Dalberg / Medicines for Malaria Venture (MMV)

- Conducted quantitative and qualitative analysis; delivered decision-ready analytical report for international stakeholders.

### MEL Consultant — Community Health Dashboards

2023

#### NEPHAK

- Developed automated dashboards visualising community health logistics indicators; standardised indicator definitions and QA processes for routine reporting.

## E D U C A T I O N

### MSc Epidemiology & Biostatistics (In Progress)

Expected 2026

#### Jaramogi Oginga Odinga University of Science & Technology (JOOUST) · Kenya

Thesis: Financial Determinants of Effective Hypertension and Diabetes Management in Primary Health Facilities, Kisumu County. Mixed-methods design; 30+ facilities, 500+ patients.

### BSc Statistics — Second Class Upper Division

2016

#### University of Nairobi · Kenya

## C E R T I F I C A T I O N S   &   P R O F E S S I O N A L   D E V E L O P M E N T

- M&E in Global Health — *University of Washington* 2024
- Biomedical Research Ethics — *CITI Program* 2024
- Economic Evaluation — *University of Washington* 2024
- AWS Certified Cloud Practitioner — *Amazon Web Services* 2022
- Data Science Professional Certificate — *DataCamp* 2023
- Advanced R for Data Analysis — *DataCamp* 2023
- Research Methodology & Quantitative Methods — *Johns Hopkins Bloomberg School of Public Health* 2018–2019
- Social Innovation — *Amani Institute*
- Human-Centred Design — *Acumen*

## T E C H N I C A L   S K I L L S

**Statistical Software** R (Expert) · Stata (Advanced) · Python (Advanced) · SPSS · SAS (basic)

**Data Engineering** SQL · PostgreSQL · ETL Pipelines · AWS (EC2, S3, RDS) · Git/GitHub · DHIS2/KHIS

**Data Collection** KoboToolbox · ODK · Surveyor · REDCap · CommCare · XLSForm / CAPI

**Visualisation & BI** Power BI · R Shiny · Quarto · R Markdown · Tableau · ggplot2 · Plotly

**Methods** RCT / Quasi-experimental · DiD · PSM · Survival analysis · Mixed methods · Logframes

**Languages** English (fluent) · Kiswahili (fluent) · Dholuo (native)

## S E L E C T E D   P U B L I C A T I O N S

1. Amollo N.W., Ogol J., Museve E., Owenga J.A., Aduda D.O., & Onguru D. (2025). Financial Determinants of Effective Hypertension and Diabetes Care in Rural Primary Health Facilities in Kisumu, Kenya: A Mixed-Methods Study.
2. Mangale D.I., Adhiambo H., et al. (2025). Characteristics and mortality risk among oesophageal cancer patients with varied HIV status: a 10-year registry analysis, Kisumu County. (Data manager/analyst).
3. Ouma O.J., Omondi D., Akinyi I., Amollo N.W., et al. (2025). Addressing priority gaps in access and quality of NCD services in primary care settings in rural Kenya: a participatory approach to intervention development.

Referees available on request.