

Dr Isaac L. Singini

Specialist Biostatistician - South African Medical Research Council

Co-Investigator

QUALIFICATIONS

PhD in Statistical Sciences

STEAM-3D

Sustainable Training in Epidemiological Analysis and Modelling for Data-Driven Decision Making in Africa

SOUTH AFRICA | MALAWI | MOZAMBIQUE | CAMEROON | BELGIUM

BIOSKETCH

Dr Isaac L. Singini is a Specialist Biostatistician at the South African Medical Research Council (SAMRC) with more than 15 years of experience in biostatistics, epidemiology, and public health research. He holds a PhD in Statistical Sciences from the University of Cape Town and has extensive experience supporting multidisciplinary research across Africa in HIV, tuberculosis, COVID-19, and other priority public health programmes.

Within the STEAM 3D project, Dr Singini provides statistical support to the research team, contributing to study design, sampling methodology, data analysis, and reproducible research workflows where appropriate. He also supports capacity-strengthening activities, including introductory training in R programming, statistical computing, and data management, helping researchers develop practical skills for analysing health data using open-source software.

His current work includes statistical modelling and calibration of the Naomi HIV estimation framework, longitudinal and survival data analysis, and the development of reproducible analytical pipelines that support evidence-based public health decision-making. He has collaborated with national and international research institutions and is committed to strengthening quantitative research capacity through mentorship, collaborative research, and methodological innovation.

In addition to his research activities, Dr Singini has supervised and examined postgraduate students in biostatistics and epidemiology, contributed to methodological developments in joint modelling, and served on the Stellenbosch University Health Research Ethics Committee. He is also an active peer reviewer and has published in both statistical and medical journals. His research interests include clinical trial methodology, causal inference, longitudinal data analysis, survival analysis, statistical computing, data governance, and the application of advanced statistical methods to improve public health policy and practice.