ANTONIO RUNGO

A highly motivated and enthusiastic Statistician with outstanding research skills and data management incorporating applied skills in data base design, electronic data base for mobiles and tablets, analysis (using various statistical software packages), reporting and presentation of results as well as additional training and applied skills in Monitoring and Evaluation.

🎓 EDUCATION

Currently | 2023-Feb

Data Science: 5-Course R-Track
Business Science University
📍 Online

· Data Science for Business Part 1
· Data Science for Business Part 2
· High-Performance Time Series
· Shiny Web Apps Part 1
· Shiny Web Apps Part 2

2013 | 2011

Master in Statistics: Biostatistics
Hasselt University
📍 Diepenbek, Belgium

· **Dissertation:** Assessing the health related quality of life in Flanders and the possible factors influencing it
· **Supervisor:**
· Internal: Prof. dr. Niel Hens
· External: Dr. Joke Bilcke

2009 | 2004

Bachelor degree in Statistics
Eduardo Mondlane University
📍 Maputo, MZ

· **Dissertation:** Comparative Analysis on Time Series Models Applied in Monthly Precipitation Forecast: The Case of Cuamba District.
· **Supervisor:** Dra. Rafica Abdul Razac

2000 | 1998

Trained in health as Clinical Officer
Ministry of Health, Mozambique
📍 Inhambane, Chicuque

· Chicuque Health Training Center

CONTACT

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Languages

Portuguese: Native

English: Proficient

PROGRAMMING SKILLS

R Git GitHub

Markdown Python

HTML CSS ODK

JavaScript SPSS

💻 RESEARCH PROJECTS

2016

Successfully achieved projects

UNFPA 📍 Maputo, MZ

· Implemented data management system in real time - online - using the ODK to collect routine data in health facilities where the VMMC program is running. This data is uploaded to the server, where the Ministry of Health at central, provincial and district level can access this data to different types of analysis for decision making.
· Implemented data collection tool using CommCare for External Data Quality Assessment during the quarterly assessment visits

🖥 TEACHING EXPERIENCE

Currently | 2014

Teaching Assistant

UEM- Faculty of Medicine 📍 Maputo, MZ

· Course: Biostatistics for Master Students in Public Health;

2019

Trainer

Zambezi Agency 📍 Tete MZ

· Course: Statistical Analysis using SPSS - "Support for Inclusive and Sustainable Development of the Zambezi Valley phase II" for the Zambezi Agency in Tete;

2019

Teaching Assistant

ISCISA 📍 Maputo, MZ

· Course: Introduction to Biostatistics for Master Students in Statistics and Planning

2010

Teaching Assistant

ISCISA 📍 Maputo, MZ

· Course: Demography and Biostatistics

2010

Teaching Assistant

UEM- Faculty of Medicine 📍 Maputo, MZ

· Course: EpiInfo Software for the Master Students in Public Health

💼 WORKING EXPERIENCE

Senior Strategic Information Advisor

mothers2mothers

Currently
|
2019-
Jun

📍 Maputo, MZ

- Designe, manage and oversee the implementation of M&E for m2m Mozambique Programme through thought leadership, system development
- Lead the development and execution of a country-assessment process and tools to identify strengths and address weaknesses in the M&E System of the MPM Programme in Mozambique.
- Lead the training of in-country Government staff and MPM Implementing Partners to administer and use the new or revised routine MPM M&E tools and systems
- Manage and oversee all routine and ad-hoc reporting on m2m Mozambique Programme
- In collaboration with the M&E Advisor at m2m Head Office, ensure that high quality data are consistently generated across all components of the m2m Mozambique Programme
- Develop M&E System which includes Logical Model, Results Framework, M&E Plan for any proposal applications for funding within the organization
- Conceptualize and develop programmatic quarterly reports to share with the donors

Independent Consultant

2019-
May
|
2018-
Dec

📍 Maputo, MZ

2018-Nov
|
2016-Dec

● M&E advisor

Global Programs for Research and Training, UCSF Mozambique

📍 Maputo, MZ

· Contributed to the identification and monitoring of relevant M&E
  indicators as well as the development of work plans, M&E plan and
  protocols;
· Developed, adapted and / or examined the Monitoring and Evaluation
  tools;
· Supported internal Data Quality Assessment (iDQA) by Implementing
  Partners (IPs);
· Provided Technical Assistance to transition iDQA to MISAU
· Collaborated with IT teams to develop tools to support routine
  monitoring of programs;
· Developed the CQI (Continuous Quality Improvement) dashboard and
  support of CQI data use
· Provided Technical Assistance (TA) to advance national routine data
  quality assessment and improvement efforts
· Conceptualized and developed M&E programmatic reports to be
  included in real-time dynamic dashboards (potential areas: PMTCT, CQI,
  QI and DQA);
· Supported provincial health authorities to conduct internal DQA at the
  health facility for continuous improvement in the quality of HIV service
  delivery, data use and decision making among others;
· Developed a training curriculum and support materials;
· Managed and conducted in-depth M&E database analyzes using
  statistical software.

2016-Dec
|
2015-Jun

● Voluntary Medical Male Circumcision (VMMC) Project Manager
  and Data Analyst

International Training and Education Center for Health (I-TECH)
Mozambique

📍 Maputo, MZ

· Performed in coordination with MOH, external quality assurance (EQA)
  visits to priority VMMC sites and develop action plans for each site;
· Provided direct support for Data Management at National VMMC
  Program on M&E system;
· Provided TA to National VMMC Program to collect, store, analyze and
  report routine and EQA data from all sites;
· Provided TA in the development and monitoring of provincial and
  district Demand Creation (DC) work plans;
· Performed data analysis in different projects;
· Conceptualized statistical reports.

2015-May | 2014-Apr

Senior Database Manager and Data Analyst

International Training and Education Center for Health (I-TECH) Mozambique

📍 Maputo, MZ

- Led the process of revision of data collection tools;
- Developed forms on mobile data collection, questionnaire scripting, training and implementation of the e-data collection;
- Managed data collection using tablets;
- Assisted in the development of standard operational procedures for data collection in all programs;
- Supervised a team of data collection through site visits using tablets;
- Supported staff programs in data analysis and project evaluation of operational research framework;
- Performed statistical analysis in different projects;
- With the support of the clinicians and other data users, to participate in identifying the information required for data collection;
- Coordinated with the MoH and ensure that plans for data collection, data entry and reporting are aligned with the MoH prospects;
- Managed and coordinated the evaluation and monitoring activities to assess the quality of data;
- Coordinated with the programs the process of data analysis;
- Collaborated with implementing partners;
- Provided feedback on the result of external data quality assessment;
- Developed action plans for data quality assurance activities of programs;
- Ensured proper storage of data and to perform the more complex data analysis in the various programs underway in the I-TECH;
- Conceptualized statistical reports.

2011-Oct | 2010-Sep

Database Manager

International Training and Education Center for Health (I-TECH) Mozambique

📍 Maputo, MZ

- Developed databases for data entry;
- Conducted data analysis and reports;
- Provided timely information to report in PTO, SAPR, APR through Train SMART platform;
- Developed tools for data collecting in operational research;

2010-Aug | 2009-Oct

Monitoring & Evaluation and Data Manager

Research Unit in Health Systems, National Institute of Health, Maputo, Mozambique

📍 Maputo, MZ

- Performed statistical analysis;
- Developed database for different study;
- Report writing.

2009

Research Assistant

Population Service International- PSI Mozambique

📍 Maputo, MZ

- Coordinated the field work in the study of behavior and attitudes in mosquito net use, conducted in Maputo, Inhambane and Zambezia provinces from April to June in 2009;
- Coordinated the field work in the study about the availability of condom use and water cleaning product, conducted in Maputo, Gaza, Inhambane, Sofala and Manica from June to September in 2009;
- Trained enumerators and supervisors for the field work;
- Trained supervisor on mapping and listing for sample selection in the field;
- Performed coding on electronic questionnaire using PDA (Personal Digital Assistant);
- Developed databases and supervision in data entry;
- Conducted data cleaning and data analysis of different studies;
- Report writing.

2004 | 2000

Clinical Officer, working on health facility

Ministry of Health, Mozambique

📍 Maputo, MZ

- Worked as clinical officer, screening of adults and children with different diseases at Xipamanine and Maxaquene Health Center;
- Worked at Emergency Unit at General Hospital of Mavalane.

⤴ CONSULTANCIES

2019

Data Analyst

MB Consulting, SA

📍 Maputo, MZ

- Data analysis on Monitoring and Evaluation of Early Action System Activation through the Early Action Protocol (PAA) for Cyclones in Anticipation of Severa Chalane Tropical Storm

2019

Data analyst and reporting services

Mundi Consulting, Lda.

📍 Maputo, MZ

- Development of tools for data collection;
- Collection, analysis and systematization of data on an ongoing basis;
- Analysis, processing and systematization of the information collected;
- Support in the development of consultancy products.

2019

Data Analyst

MAP CONSULTORIA LDA

📍 Maputo, MZ

- Database design, trainning on data clerks and data analysis for the Mid-Term Evaluation of the Administrative Court's Strategic and Corporate Plan 2016-2019 (PLACOR III)

Data analyst and reporting services

2018

Counterpart International

📍 Maputo, MZ

- Developed a data analysis and reporting strategy (including sample visualizations) based on the election monitoring methodology adopted by the PCBG election project, the ELMO data collection platform and ODK form submission smartphone/tablet app
- Provided support to the Senior Elections Specialist in making recommendations for updates to the ELMO platform in accordance with data analysis and reporting requirements
- Provided support to the Senior Elections Specialist in implementation of ELMO and other data tool access protocols to ensure that data cleaning, analysis, reporting and visualization are secure and that the privacy of informants as well as data collectors is protected
- Updated, published and pre-tested all questionnaires in ELMO/ODK to be used by monitors in the campaign, election day, post-election and incident events, as well as data collection associated with dispute resolution activities
- Created report templates and data visualizations based on FAQ-type requests, for ease of use by Counterpart, MONITOR secretariat and monitor coordinators
- Reviewed, analyzed and developed visualizations of data collected during the 2019 voter registration process as contribution to reports
- Reviewed, analyzed and developed visualizations on the campaign, election day, post-election and incident events, as well as data collection associated with dispute resolution activities, on a schedule to be agreed by the Counterpart elections team and the MONITOR secretariat
- Developed and implemented a training module for monitors on data collection and forms submission;
- Developed and implemented a training module for MONITOR election monitor coordinators in the use of ELMO for preliminary data analysis, monitor supervision, and report generation
- Developed other reports and visualizations upon request by the Counterpart elections team and the MONITOR project
- Prepare a brief how-to guide on the use of data analysis tools and visualizations for similar projects based on the MONITOR experience
- Contribute to PCBG project lessons learned or other evaluative exercises
- Prepare a final project report

Data Analyst Baseline Survey For Emergency Food Security

2018

Kixiquila Research and Consultancy Services

📍 Maputo, MZ

- Data Analysis on Outcome Monitoring (Baseline) Survey For Emergency Food Security and Recovery Program for vulnerable People Affected by Drought in Gaza and Inhambane Provinces of Mozambique

Data Analyst

2018

MAP CONSULTORIA LDA

📍 Maputo, MZ

- Database design, trainning on data clerks and data analysis for Mozambique's assessment in the Second Report for the African Peer Review Mechanism (MARP)

2018

Data Analyst

E-Pop Survey Consultoria & Serviços LDA   ● Maputo, MZ

- Mid-Term Results' Assessment Survey of the We Effect NACE Sub-Programme AGIR II Program
- CAP STUDY: Evaluation of AGIR II: Component on Natural Resources, Agriculture, Climate Change, Environment, Food and Nutrition Security, and Gender.
- Provinces Covered: Maputo, Gaza, Tete, Nampula, Cabo Delgado and Niassa. Total of 1200 Households. Protocol Design, Data Collection (using Tablets) and Data Analysis and Report Writing

2018

Data Analyst

E-Pop Survey Consultoria & Serviços LDA   ● Maputo, MZ

- IPERMO: Community Based Association in Boane
- Development of the M&E System for all its activities in the areas of: nutrition, immunization, malaria prevention, agriculture and HIV

2018

ODK Forms Developer for Android

UNFPA - Mozambique   ● Maputo, MZ

- Developed electronic questionnaire based on mobile data collection to collect data in research on Knowledge, Attitudes and Practices of Youth for Sexual and Reproductive Health and Study Program Base "Action for Girls" during the baseline and end-line in Zambezia and Nampula provinces.
- Developed Real Time Monitoring System, a web-based application, cloud hosted which support conventional data input and output, based on mobile data collection technology such as ODK, for BIZ Generation Program
- Developed Real Time Monitoring System, a web-based application, cloud hosted which support conventional data input and output, based on mobile data collection technology such as ODK, for KIMCHI program in Cabo Delgado. On this program, the maternal health nurses from 64 health facilities with maternity wards from 8 districts prepare and submit a weekly report of selected indicators to be monitored at district, provincial and national level.

2017

Data Analyst

E-Pop Survey Consultoria & Serviços LDA   ● Maputo, MZ

- APN : People's Aid Norway - Tete
- Baseline study on Food and Nutrition Security in Chiuta, Macanga and Moatize districts in Tete: Focus on child health, nutrition, education and child protection. Sample: 373 Households

2015 ● ### Data Analyst

ICRH-M - The International Centre for Reproductive Health in Mozambique

📍 Maputo, MZ

- Trained ICRH staff on statistics contents: Introduction to Statistics, Sampling and Calculation of Sample Size, Analysis and Interpretation of Data, Database Development using Epidata, Database export to different environment of analysis, SPSS use for Data Management, cleaning and analysis;
- Trained ICRH staff for the use of digital platforms to collect data electronically using Smartphone and/or tablets;
- Conducted data analysis and report of baseline study on - Knowledge, Attitudes, Practices and Behaviour in communities members related to family planning in Manhica and Marracuene districts

2015 ● ### Data Analyst

SIITRI (Science Innovation Information and Communication Technology Research Institute)

📍 Maputo, MZ

- Conducted data analysis and conceptualized a report writing on "Women's Rights Online" in the peri-urban areas of Maputo, Mozambique.

2014 ● ### Data Analyst on Outcome Monitoring (Baseline) Survey For Emergency Food Security

Kixiquila Research and Consultancy Services   📍 Maputo, MZ

- Conducted data cleaning, sample weights, statistical analysis and to conceptualize the report on PAGE-M project on midline study.

2014 ● ### Data Analyst

Population Service International- PSI Mozambique   📍 Maputo, MZ

- Provided data analysis and report writing for the End-line project on Analysis and Evaluation of needs for the Kenmare Health Program, Moma district in Nampula.

2014 ● ### Data Analyst

Kixiquila Research and Consultancy Services   📍 Maputo, MZ

- Developed database for data collection in households and school on Girls Education Challenges in Manica province under VSO (Voluntary Services Overseas) project;
- Conducted training for data clerks and mentored data entry
- Performed data cleaning, data analysis and produced report

2011 ● ### Data Analyst

CESP - Public Health Consultants   📍 Maputo, MZ

- Developed databases on different studies conducted by the organizations
- Trained and mentored data clerks on data entry
- Performed data cleaning on databases and statistical analysis and report writing.

POSTER PRESENTATIONS

2015

15th Healthy Days
MOH & National Institute of Health

 Maputo, MZ

· Awarded in 3rd place as the best poster on VMMC Quality Assessment at the 15th Health Days held by MOH.

WORKSHOPS ATTENDED

2017

Data Quality Assessment & Continuous Quality Improvevemt
Global Programs & MOH

 Maputo, MZ

· Workshop in Portuguese

2015

External Data Quality Assessment
I-TECH & MOH

 Maputo, MZ

· Workshop in Portuguese

2010

Introduction in economic evaluation of health programs
National Institute of Health (NIH) in Mozambique and ICF Macro International

 Maputo, MZ

· Workshop in Portuguese

2010

Sampling Techniques and Survey
Eduardo Mondlane University and Hasselt University

 Maputo, MZ

· Workshop in Portuguese

2009

Research Methodology
NIH, CDC and Elizabeth Glaser Pediatric AIDS Foundation

 Maputo, MZ

· Workshop in Portuguese

2009

Good Clinical Practice
NIH and FioCruz from Brazil

 Maputo, MZ

· Workshop in Portuguese

2009

Methods to estimate the size of populations at high risk for HIV infection
CDC, NIH and ONUSIDA

 Maputo, MZ

· Workshop in Portuguese

2008

Monitoring and Evaluation
PSI

 Maputo, MZ

· Workshop in Portuguese

2008   ●   Research Ethics for Community representatives
            PSI   📍 Maputo, MZ

            · Workshop in Portuguese

2008   ●   Personal Digital Assistant - PDA
            PSI   📍 Maputo, MZ

            · Workshop in Portuguese

2008   ●   Mapping and Listing for selection of the sample
            PSI   📍 Maputo, MZ

            · Workshop in Portuguese

2008   ●   Geographical position System (GPS)
            PSI   📍 Maputo, MZ

            · Workshop in Portuguese

📅 EVENTS ATTENDED

2013
|
2011   ●   International Hexa-Symposium on Biostatistics, Bioinformatics, and Epidemiology
            Hasselt University   📍 Diepenbeek, BE

            · Graduate Program in Biostatistics

📖 SHORT COURSES ATTENDED

2021   ●   Cloud Data Engineer
            Digital Innovation One   📍 Online

            · 100h - Certificate

2021   ●   Data Engineer
            Digital Innovation One   📍 Online

            · 114h - Certificate

2021   ●   HTML Web Developer
            Digital Innovation One   📍 Online

            · 27h - Certificate

2021   ●   Recriando a Interface do Netflix
            Digital Innovation One   📍 Online

            · 5h - Certificate

2021   ●   Recriando a pagina Inicial do Instagram
            Digital Innovation One   📍 Online

            · 2h - Certificate

2021 Construindo paginas para internet com Bootstrap
Digital Innovation One
· 4h - Certificate
Online

2021 Introducao a criacao de websites com HTML5 e CSS3
Digital Innovation One
· 6h - Certificate
Online

2021 Programming Foundations: APIs and Web Services
LinkedIn Learning
· 1h - Certificate
Online

2021 Designing RESTful APIs
LinkedIn Learning
· 1h - Certificate
Online

2021 Introduction to Web APIs
LinkedIn Learning
· 1h - Certificate
Online

2021 Git & GitHub course
Digital Innovation One
· 5h - Certificate
Online

2021 Programacao em JavaScript
Digital Innovation One
· 2h - Certificate
Online

2021 Logica de Programacao
Digital Innovation One
· 4h - Certificate
Online

2020 DHIS2 - DHIS2 Tracker
Digital & Health
· 20h - Certificate
Online

2020 DHIS2 - Design and Customization
Digital & Health
· 20h - Certificate
Online

2019 SQL - Introduction to Databases and SQL Querying
Udemy
· 2.5h - Certificate
Online

2019 ● `SQL` - Learn ETL using SSIS

Udemy   ⚲ Online

• 1.5h - Certificate

2019 ● `SQL` - Learn SSRS Reporting

Udemy   ⚲ Online

• 1.5h - Certificate

2019 ● `SQL` - Microsoft SQL Server Reporting Services (SSRS)

Udemy   ⚲ Online

• 6h - Certificate
• Data Science Specialization

2019 ● `SQL` - Advanced Databases and SQL Querying

Udemy   ⚲ Online

• 3.5h - Certificate

2019 ● `SQL & Python` - The Complete Python & PostgreSQL Developer Course

Udemy   ⚲ Online

• 22h - Certificate
• Data Science Specialization

2019 ● `Python` - Data Visualization with Plotly and Python

Udemy   ⚲ Online

• 23h - Certificate
• Data Science Specialization

2019 ● `Python` - Spark and Python for Big Data with PySpark

Udemy   ⚲ Online

• 10.5h - Certificate
• Data Science Specialization

2019 ● `Tableau` - Tableau Tutorial for Beginners

Udemy   ⚲ Online

• 2.5h - Certificate
• Data Science Specialization

2019 ● `Tableau` - Tableau for Beginners: Get QA Certified, Grow Your Career

Udemy   ⚲ Online

• 4.5h - Certificate
• Data Science Specialization

2019   `Tableau` - Tableau 10 A-Z: Hands-On Tableau Training For Data Science

Udemy   📍 Online

· 7.5h - Certificate
· Data Science Specialization

2019   `Tableau` - Tableau 10 Advanced Training: Master Tableau in Data Science

Udemy   📍 Online

· 9h - Certificate
· Data Science Specialization

2019   `Tableau` - Building Interactive Dashboards with Tableau

Udemy   📍 Online

· 4.5h - Certificate
· Data Science Specialization

2018   `R` - Reproducible Templates for Analysis and Dissemination

Coursera/EMORY University   📍 Online

· Certificate

2018   `R & Python` - Machine Learning A-Z: Hands-On Python & R in Data Science

Udemy   📍 Online

· 41h - Certificate
· Data Science Specialization

2018   `Python` - Complete Python Bootcamp: Go from zero to hero in Python 3

Udemy   📍 Online

· 24h - Certificate
· Data Science Specialization

2018   `Python` - Python for Data Science and Machine Learning Bootcamp

Udemy   📍 Online

· 22.5h - Certificate
· Data Science Specialization

2018   `Python` - Applied Machine Learning for Healthcare

Udemy   📍 Online

· 5h - Certificate
· Data Science Specialization

2018 ● `Python` - Data Science in Stratified Healthcare and Precision
Medicine
Coursera/The University of Edinburgh   📍 Online

· Certificate
· Data Science Specialization