

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
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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
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1998

● **Trained in health as Clinical Officer**
Ministry of Health, Mozambique

📍 Inhambane, Chicunque

- Chicunque Health Training Center



CONTACT



Languages

Portuguese: Native

English: Proficient

PROGRAMMING SKILLS

📄 R Git 📄 GitHub

Markdown 📄 Python

📄 HTML 📄 CSS 📄 ODK

📄 JavaScript 📄 SPSS

*This resume is **not** complete. The extended version is available here: [📄](#)*

This CV was made with the R package [pagedown](#) and [datadrivencv](#).

Code available on [GitHub](#).

Last updated on 2023-03-15. The most recent version of this resume is [available here](#).



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
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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

Currently
|
2019-
Jun



Senior Strategic Information Advisor

mothers2mothers

📍 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

2019-
May
|
2018-
Dec



Independent Consultant

📍 Maputo, MZ

2018-
Nov
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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	<ul style="list-style-type: none"> ● Senior Database Manager and Data Analyst International Training and Education Center for Health (I-TECH) Mozambique <p>📍 Maputo, MZ</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> ● Database Manager International Training and Education Center for Health (I-TECH) Mozambique <p>📍 Maputo, MZ</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> ● Monitoring & Evaluation and Data Manager Research Unit in Health Systems, National Institute of Health, Maputo, Mozambique <p>📍 Maputo, MZ</p> <ul style="list-style-type: none"> • 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
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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 Management and Governance  Maputo, MZ
- Database Development and Data Analysis on the Second Mozambique Evaluation in the African Coupling Review Mechanism

2018

● Data analyst and reporting services

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




2018

● Data Analyst Baseline Survey For Emergency Food Security

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

- 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.
- 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
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2011


International Hexa-Symposium on Biostatistics, Bioinformatics, and Epidemiology
 Hasselt University

 Diepenbeek, BE

 - Graduate Program in Biostatistics



SHORT COURSES ATTENDED

2021	<ul style="list-style-type: none">● Cloud Data Engineer Digital Innovation One<ul style="list-style-type: none">• 100h - Certificate	📍 Online
2021	<ul style="list-style-type: none">● Data Engineer Digital Innovation One<ul style="list-style-type: none">• 114h - Certificate	📍 Online
2021	<ul style="list-style-type: none">● HTML Web Developer Digital Innovation One<ul style="list-style-type: none">• 27h - Certificate	📍 Online
2021	<ul style="list-style-type: none">● Recriando a Interface do Netflix Digital Innovation One<ul style="list-style-type: none">• 5h - Certificate	📍 Online
2021	<ul style="list-style-type: none">● Recriando a pagina Inicial do Instagram Digital Innovation One<ul style="list-style-type: none">• 2h - Certificate	📍 Online
2021	<ul style="list-style-type: none">● Construindo paginas para internet com Bootstrap Digital Innovation One<ul style="list-style-type: none">• 4h - Certificate	📍 Online
2021	<ul style="list-style-type: none">● Introducao a criacao de websites com HTML5 e CSS3 Digital Innovation One<ul style="list-style-type: none">• 6h - Certificate	📍 Online
2021	<ul style="list-style-type: none">● Programming Foundations: APIs and Web Services LinkedIn Learning<ul style="list-style-type: none">• 1h - Certificate	📍 Online
2021	<ul style="list-style-type: none">● Designing RESTful APIs LinkedIn Learning<ul style="list-style-type: none">• 1h - Certificate	📍 Online
2021	<ul style="list-style-type: none">● Introduction to Web APIs LinkedIn Learning<ul style="list-style-type: none">• 1h - Certificate	📍 Online

2021	<ul style="list-style-type: none"> ● Git & GitHub course 	<ul style="list-style-type: none"> 📍 Online
	Digital Innovation One	
	• 5h - Certificate	
2021	<ul style="list-style-type: none"> ● Programacao em JavaScript 	<ul style="list-style-type: none"> 📍 Online
	Digital Innovation One	
	• 2h - Certificate	
2021	<ul style="list-style-type: none"> ● Logica de Programacao 	<ul style="list-style-type: none"> 📍 Online
	Digital Innovation One	
	• 4h - Certificate	
2020	<ul style="list-style-type: none"> ● DHIS2 - DHIS2 Tracker 	<ul style="list-style-type: none"> 📍 Online
	Digital & Health	
	• 20h - Certificate	
2020	<ul style="list-style-type: none"> ● DHIS2 - Design and Customization 	<ul style="list-style-type: none"> 📍 Online
	Digital & Health	
	• 20h - Certificate	
2019	<ul style="list-style-type: none"> ● SQL - Introduction to Databases and SQL Querying 	<ul style="list-style-type: none"> 📍 Online
	Udemy	
	• 2.5h - Certificate	
2019	<ul style="list-style-type: none"> ● SQL - Learn ETL using SSIS 	<ul style="list-style-type: none"> 📍 Online
	Udemy	
	• 1.5h - Certificate	
2019	<ul style="list-style-type: none"> ● SQL - Learn SSRS Reporting 	<ul style="list-style-type: none"> 📍 Online
	Udemy	
	• 1.5h - Certificate	
2019	<ul style="list-style-type: none"> ● SQL - Microsoft SQL Server Reporting Services (SSRS) 	<ul style="list-style-type: none"> 📍 Online
	Udemy	
	• 6h - Certificate	
	• Data Science Specialization	
2019	<ul style="list-style-type: none"> ● SQL - Advanced Databases and SQL Querying 	<ul style="list-style-type: none"> 📍 Online
	Udemy	
	• 3.5h - Certificate	

2019	<ul style="list-style-type: none"> ● SQL & Python - The Complete Python & PostgreSQL Developer Course <p>Udemy</p> <ul style="list-style-type: none"> • 22h - Certificate • Data Science Specialization 	📍 Online
2019	<ul style="list-style-type: none"> ● Python - Data Visualization with Plotly and Python <p>Udemy</p> <ul style="list-style-type: none"> • 23h - Certificate • Data Science Specialization 	📍 Online
2019	<ul style="list-style-type: none"> ● Python - Spark and Python for Big Data with PySpark <p>Udemy</p> <ul style="list-style-type: none"> • 10.5h - Certificate • Data Science Specialization 	📍 Online
2019	<ul style="list-style-type: none"> ● Tableau - Tableau Tutorial for Beginners <p>Udemy</p> <ul style="list-style-type: none"> • 2.5h - Certificate • Data Science Specialization 	📍 Online
2019	<ul style="list-style-type: none"> ● Tableau - Tableau for Beginners: Get QA Certified, Grow Your Career <p>Udemy</p> <ul style="list-style-type: none"> • 4.5h - Certificate • Data Science Specialization 	📍 Online
2019	<ul style="list-style-type: none"> ● Tableau - Tableau 10 A-Z: Hands-On Tableau Training For Data Science <p>Udemy</p> <ul style="list-style-type: none"> • 7.5h - Certificate • Data Science Specialization 	📍 Online
2019	<ul style="list-style-type: none"> ● Tableau - Tableau 10 Advanced Training: Master Tableau in Data Science <p>Udemy</p> <ul style="list-style-type: none"> • 9h - Certificate • Data Science Specialization 	📍 Online
2019	<ul style="list-style-type: none"> ● Tableau - Building Interactive Dashboards with Tableau <p>Udemy</p> <ul style="list-style-type: none"> • 4.5h - Certificate • Data Science Specialization 	📍 Online

2018	<ul style="list-style-type: none"> ● R - Reproducible Templates for Analysis and Dissemination <p>Coursera/EMORY University  Online</p> <ul style="list-style-type: none"> • Certificate
2018	<ul style="list-style-type: none"> ● R & Python - Machine Learning A-Z: Hands-On Python & R in Data Science <p>Udemy  Online</p> <ul style="list-style-type: none"> • 41h - Certificate • Data Science Specialization
2018	<ul style="list-style-type: none"> ● Python - Complete Python Bootcamp: Go from zero to hero in Python 3 <p>Udemy  Online</p> <ul style="list-style-type: none"> • 24h - Certificate • Data Science Specialization
2018	<ul style="list-style-type: none"> ● Python - Python for Data Science and Machine Learning Bootcamp <p>Udemy  Online</p> <ul style="list-style-type: none"> • 22.5h - Certificate • Data Science Specialization
2018	<ul style="list-style-type: none"> ● Python - Applied Machine Learning for Healthcare <p>Udemy  Online</p> <ul style="list-style-type: none"> • 5h - Certificate • Data Science Specialization
2018	<ul style="list-style-type: none"> ● Python - Data Science in Stratified Healthcare and Precision Medicine <p>Coursera/The University of Edinburgh  Online</p> <ul style="list-style-type: none"> • Certificate • Data Science Specialization