



# Boniface NSENGIYUMVA

*Curriculum Vitae*

## **SUMMARY OF QUALIFICATIONS**

Boniface NSENGIYUMVA is a hard-working, motivated and enthusiastic biostatistician with experience in Statistical Methods. Boniface has advanced skills in statistical software such as STATA, SAS, R and SPSS. He has the ability in good reporting enhanced by the use of LATEX software. Boniface has enough background in data collection and management; he had participated in Study Design, Sampling, Data Analysis, Planning, Monitoring and Evaluation of research projects. He has a Master of Science in Statistics with specialization in biostatistics. Currently, he is working as Research Biostatistician at Rwanda Military Hospital. Before he was working as Planning Officer in charge of planning and Evaluation of research projects in National Industrial Research and Development Agency (NIRDA). Boniface is a married Rwandan male aged 37 years, fluently speaking English and French.

## **PERSONAL DETAILS**

|                        |                                   |
|------------------------|-----------------------------------|
| <i>Date of Birth:</i>  | November 24, 1982                 |
| <i>Address:</i>        | Kanombe, Kicukiro, Kigali, Rwanda |
| <i>Phone:</i>          | +250-788-786-231                  |
| <i>Email:</i>          | bonifacionse@gmail.com            |
| <i>Religion:</i>       | Protestant                        |
| <i>Nationality:</i>    | Rwandan                           |
| <i>Domicile:</i>       | Ndera (Nyakagezi)                 |
| <i>Marital Status:</i> | Married                           |

## **EDUCATION**

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|---|--------------------------------|
| <b>PhD candidate in Public Health, Doc.I</b>  | <b>Sept 2019 up to Present</b> |
| <i>Distant Production House University, Faculty of Health Sciences, Delaware, USA</i> |                                |

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|---|-----------|
| <b>MSc Statistics/Biostatistics</b><br><i>Hasselt University, Belgium</i><br>Grade: Satisfaction            | 2013-2016 |
| <b>BSc Applied Statistics</b><br><i>University of Rwanda</i><br>Grade: Distinction                          | 2006-2010 |
| <b>School of Modern Languages, English Department</b><br><i>University of Rwanda</i><br>Grade: Satisfaction | 2005      |
| <b>High School</b><br><i>Sumba Secondary School</i><br>Grade: Satisfaction                                  | 1997-2004 |
| <b>Primary School</b><br><i>Sumba Primary School</i><br>Grade: Satisfaction                                 | 1989-1996 |

## WORK EXPERIENCE

**1. Biostatistician-Full Time Job** July 2017 up to present  
*Rwanda Military Hospital*

**Achievements:**

(1) Planning and conducting of research studies (one published, three in tunnel towards publication). (2) Providing expertise in the design, management and evaluation of study protocols and health status questionnaires, sample selection, Performs simple and complex statistical analyses of data and Dissemination of findings (Participation in 15 Medical and epidemiological studies). Participating in writing grants and other funding proposals (Participated in one application of EDCTP grant on eradication of Malaria in Rwanda and three NIH grants applications related to capacity building towards advanced skills for research related to HIV and linked malignancies). (4) Performing and Supervising training on clinical research methodology, statistical data management and analysis (Performed and supervised internal training; three on clinical research methodology and three on data management and analysis using SPSS and STATA).

(5) AS extra-duty related achievement: Facilitating and handling academic internship applications within Rwanda Military Hospital (More than 200 applications have been handled).

**2. Academic Thesis for Master Program in Statistics with specialization in Biostatistics** 2016

**Boniface Nsengiyumva.** *Resilience as Predictor for Psychopathology in Breast Cancer Patients. Hasselt university. under supervision of Robin Bruyndonckx,*

Ward Schrooten and Mrs Sabine Markovitz.

**3. Contribution on research publication**

**2020**

*Athanase Munyaneza , Adebola Adedimeji, Hae-Young Kim, Qiuhi Shi, Donald R Hoover ,Jonathan Ross, Gad Murenzi, Lynn Murchison, Jules Kabahizi, Josephine Gasana, Boniface Nsengiyumva, Gallican Kubwimana, Faustin Kanyabwisha, Benjamin Muhoza, Charles Ingabire, Leon Mutesa, Philip E. Castle, Joel M. Palefsky, Kathryn Anastos, Viraj V. Patel.* High awareness of and willingness to use HIV pre-Exposure prophylaxis (PrEP) among men who have sex with men in Rwanda.

Paper in Tunnel for Publication.

**4. Contribution on research publication**

**2020**

*Pacifique Kayitare and Boniface Nsengiyumva.* Social influence to alcohol and substance abuse relapses at Wawa rehab center in Rwanda [Final Manuscript under process of publication.]

**5. Contribution on research publication**

**2020**

*Anthony Bazatsinda, Jules Kabahizi, Boniface Nsengiyumva and Charlotte Bavuma.*

Prevalence of Type 2 Diabetes Mellitus in Adult Patients with Hepatitis C Virus Infection and Associated Laboratory Markers. Experience at Rwanda Military Hospital: A cross sectional descriptive study.[Final Manuscript under process of publication.]

**6. Contribution on research publication**

**2019**

*King Kayondo, Boniface Nsengiyumva, Pacifique Kayitare, Janvière Mutamuliza, Fidele Byiringiro, Esperance Umumarungu, Epimaque Rukataza, Pacifique Mugenzi, Alex M. Buteera, Eugene Ngoga and JC Kagimbana.*

Medical Citizen Outreach Programs as an RDF Homegrown Solution for Health Challenges in Rwanda,

Rwanda Bulletin of Public Health 1(1) 2019.

**7. Contribution on data analysis for academic work: Master of Science in Medical Biochemistry**

**2019**

*Marcus Bushaku.*

Evaluation of Biochemical Markers of Cardiac Risk in Haart-Treated Hiv-Positive Patients in Kigali, Rwanda

College Of Health Sciences, Moi University, Kenya; Master Thesis.

**8. Contribution on data analysis for academic work: Master of Science in Public Health**

**2019**

*Halifa Ndayisabye.*

Clinical and Socio-demographic characteristics associated with oral Cancer Anatomical Site at RMH, a Retrospective Study from 2005 to 2018

University of Rwanda, Master Thesis.

**9. Contribution on data analysis for academic work: Master of Science in Public Health** **2019**

*Francois Niyitanga.*

Factors contributing to Infant and Young Child Feeding (IYCF) Practice among children of 6 to 23 months of age; Secondary data analysis Rwanda, DSH 2014 - 2015

University of Rwanda, Master Thesis.

**10. Contribution on data analysis for academic work: Master of Science in Public Health** **2019**

*Nathan Rutatina.*

Children under five years Stunting Trend in Western Province and Associated Factors Assessment using RDHS 2005, RDHS 2010 and RDHS 2015

University of Rwanda, Master Thesis.

**11. Contribution on data analysis for academic work: Master of Science in Public Health** **2019**

*Jeanne D'Arc Umuringa.*

Determinants of Maternal Health Seeking In Rwanda: A Secondary Data Analysis of RDHS 2014-2015

University of Rwanda, Master Thesis.

**12. Contribution on data analysis for academic work: Master of Science in Public Health** **2019**

*David Mwesigye.*

Factors associated with Cesarean delivery in Rwanda: A Population Based study using Demographic Health Survey 2014/15

University of Rwanda, Master Thesis.

**13. Contribution on data analysis for academic work: Master of Medicine** **2019**

*Protogene Nshimiyimana.*

Patient reported outcomes after femur shaft fracture surgery at Kigali University Teaching Hospital

University of Rwanda; Master Thesis.

**14. Contribution on data analysis for academic work: Master of Medicine** **2018**

*Jean Thierry Niyomugabo.*

Efficacy of Bruner's Rules in Decreasing Tourniquet Use Related Complications: A Prospective Study

University of Rwanda; Master Thesis.

**15. Contribution on data analysis for academic work: Master of Science in Public Health** **2018**

*Lydia Businge.*

Predictors of uptake of cervical cancer screening among HIV-infected women in Kigali city, Rwanda

Jomo Kenyatta University, Kenya; Master Thesis.

**16. Private Coaching of Biostatistics-Part Time Job** January 2018 up to present

*Private Coaching Initiative*

Achievements:

Revising biostatistics topics for Master students of Epidemiology and Public Health at University of Rwanda. The coaching includes: 1. descriptive statistics (central tendency measures, dispersion measures and graphical illustrations); 2. Probability Concepts and introduction to probability distributions ( Binomial, Poisson and Normal distributions); 3. linear statistical modelling using ANOVA and linear regression; 4. Statistical modeling using logistic regression for binary data; 5. Survival data analysis concepts and Cox regression model. In 2018;6 students have been coached and passed well the course of biostatistics. in 2019, 18 students were also coached and passed well the same course. Currently(in 2020), I am coaching 11 students in descriptive statistics.

**17. Planning Officer** November 2010 to October 2013

*National Industrial Research and Development Agency; NIRDA- RWANDA*

Achievements:

Performing strategic and action plan and monitoring and evaluation of research projects in Fundamental sciences and phytomedicine. Statistical tools have been mostly used in aggregating indicators and evaluate the achievement of projects' objectives. At this job position; the projects on developing: a drug against entamoeba, extracting essential oils, Extracting essential oils and feasibility study on making bio-fuel in Rwanda have been facilitated towards successful ending through good planning and monitoring and evaluation using statistical tools to analyze data from specific indicators;to inform management board and involved staff.

**18. High school Teacher** February to October 2010

*Nyamagabe Science School*

Achievements:

Teaching basics of computer hardware, windows explorer, internet, Microsoft Word, Excel and PowerPoint.

## **TRAINING**

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**1. Dissemination and implementation research for control of hypertension** August 2018

*Training Institution: Washington University, School of Medicine in SL, USA*

**2. Integrated Secondary Data Analysis** May 2018

*Training Institution: Harvard Medical school and Partners in Health, USA*

### **3. Human Biomedical Research Basics**

**March 2018**

*Training Institution: CITI Training under Requirements set by Albert Einstein College of Medicine, USA*

### **4. Conflict of Interest in Research**

**March 2018**

*Training Institution: CITI Training under Requirements set by Albert Einstein College of Medicine, USA*

### **5. Scientific Manuscript writing**

**February 2018**

*Training Institution: Albert Einstein College of Medicine, USA*

## **SKILLS**

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*Languages:* Native speaker of Kinyarwanda. Fluent in oral and writing for both English and French

*Software:* Advanced skills in data management and analysis software (SAS, R, STATA, SPSS and MS Excel and MS Access) . Advanced skills in text processing applications (Latex, MS Office Word and PowerPoint)

## **HOBBIES**

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Sports, Chess and Alpinism

## **REFEREES**

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1. Prof. Alex M. Buteera

Clinical Education and Research Division Manager, Rwanda Military Hospital

Relationship: Direct Supervisor Phone: +250-788-305-703

Email: alexbutera83@gmail.com

2. Dr Kagimbana J. Chrysostome

Director General, Rwanda Military Hospital

Relationship: Director General

Phone: +250-783-186-663

Email: ckagimbana@gmail.com

3. Prof Geert Molenberghs

Senior Lecturer at Hasselt University, Belgium

Phone: +32-11-268-238  
Email: geert.molenberghs@uhasselt.be  
Relationship: Senior Lecturer

## **DECLARATION**

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I, Boniface Nsengiyumva confirm that the information provided is true and accurate to the best of my knowledge.



Signature:  
Boniface Nsengiyumva  
Date: March 20, 2020