

# CURRICULUM VITAE

## PERSONAL DETAILS

**FIRST NAME** KAGISO  
**SURNAME** NDLOVU  
**DATE OF BIRTH** 26/09/1982  
**SEX** MALE  
**MARITAL STATUS** Married  
**PLACE OF BIRTH** SELIBE PHIKWE  
**NATIONALITY** MOTSWANA  
**PASSPORT NUMBER** N1169983  
**DRIVER'S LICENCE NUMBER** 186006

## CONTACTS DETAILS

**POSTAL ADDRESS** P.O BOX 423 AAD, POSO HOUSE, GABORONE  
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**CURRENT POSITION:** EHEALTH RESEARCH UNIT COORDINATOR, UNIVERSITY OF BOTSWANA

**YEARS OF WORK EXPERIENCE:** 13 YEARS

**CURRENT EMPLOYER:** UNIVERSITY OF BOTSWANA  
PRIVATE BAG UB 0022  
GABORONE, BOTSWANA

**PREVIOUS EMPLOYERS:      BOTSWANA-UPENN PARTNERSHIP**

PRIVATE BAG 324, SUITE 157,  
RIVERWALK GABORONE,  
BOTSWANA

**MINISTRY OF HEALTH**  
INSTITUTE OF HEALTH  
SCIENCES HPDM&E  
DEPARTMENT  
PRIVATE BAG 0038,  
GABORONE BOTSWANA

**CURRENT EMPLOYMENT DUTIES**

- Coordinates the eHealth Research Unit in the University of Botswana which is a collaboration between Computer Science, Faculty of Medicine and Faculty of Health Sciences.
- Drives University of Botswana's eHealth Strategy
- Health Informatics Capacity building and co-teaching of Health Informatics module at the University of Botswana
- Conduct research work and participate in research conferences and workshops
- Direct Health Informatics initiatives including curriculum development and capacity building
- Research Electronic Data Capture (REDCap) Champion at the University of Botswana.
- Participate in departmental committees and faculty board meetings
- Facilitate and coordinate local and international student exchange program on Health Informatics Programs.
- Consultant on health informatics.

## **PREVIOUS POSITIONS HELD**

- HEALTH INFORMATICS PROGRAM MANAGER (2013-2014 December) - **BOTSWANA-UPENN PARTNERSHIP, GABORONE, BOTSWANA.**
- HEALTH INFORMATICS PROGRAM COORDINATOR (September 2012 – September 2013) - **BOTSWANA-UPENN PARTNERSHIP, GABORONE, BOTSWANA.**
- INFORMATION TECHNOLOGY OFFICER (January 2006 – September 2012) - **MINISTRY OF HEALTH AND WELLNESS, GABORONE, BOTSWANA.**

## **DUTIES AS HEALTH INFORMATICS AND MOBILE TELEMEDICINE PROGRAMME MANAGER**

- Work with the Ministry of health in driving the implementation of the Mobile Telemedicine projects utilizing low cost solutions such as the Open Data Kit (ODK) software, OpenMRS and REDCap.
- Managing and coordinating activities of application programming teams, country teams, Ministry of Health, and in-country stakeholders to ensure that all Mobile Telemedicine solutions are fully implemented according to the timelines and requirements outlined by the clients and end users of each solution.
- Responsible for managing the creation and maintenance of all documentation related to the Ministry of Health solutions, including training manuals and materials, project definitions and requirements documents, and programming documentations.
- Conduct and publish research in Health Informatics and Telemedicine solutions.
- Identify and train local managers, transition ownership of each program, and establish a locally suitable program model.
- Communicate with key partners in order to anticipate problems, opportunities, and needs of the program, and work to device feasible working solutions.

## **EDUCATIONAL BACKGROUND**

**PhD in Telemedicine** (UKZN) – October 2015 to date. Research specialty - "Interoperability Framework for eHealth Systems"

**MASTER OF SCIENCE:** MSc, Computer Science, University of Botswana, June 2013.

**HONOURS DEGREE:** Hons. Degree, Socio-Informatics, Stellenbosch University, South Africa, December 2010.

**POSTGRADUATE DIPLOMA:** Post Graduate Diploma in Education, University of Botswana, May 2006.

**BSc DEGREE:** BSc, Computer Science, University of Botswana, May 2005.

## **PROFESSIONAL CERTIFICATIONS**

1. The Data Science of Health Informatics  
Hopkins University on Coursera.  
Certification Date: June 2019 – Present  
**License: P4Y2XGFZC8B7**  
<https://www.coursera.org/account/accomplishments/verify/P4Y2XGFZC8B7>
2. The Outcomes and Interventions of Health Informatics by Johns Hopkins University on Coursera.  
Certification Date: May 2019 – Present  
**License: G6TFTEQVQXSB**  
<https://www.coursera.org/account/accomplishments/verify/G6TFTEQVQXSB>
3. Leading Change in Health Informatics by Johns Hopkins University on Coursera.  
**Certification Date:** April 2019 – Present  
**License: VAVVXHKHYVTY**  
<https://www.coursera.org/account/accomplishments/verify/VAVVXHKHYVTY>
4. The Social and Technical Context of Health Informatics by Johns Hopkins University on Coursera.  
**Certification Date:** February 2019 – Present,  
**License: 3GEZ7DW8RH8Y**  
<https://www.coursera.org/account/accomplishments/verify/3GEZ7DW8RH8Y>
5. Foundations of Business Strategy  
**Certification Date:** April 2018 – Present,

**License: VL7G6FWMWA4Q**

<https://www.coursera.org/account/accomplishments/verify/VL7G6FWMWA4Q>

6. Fundamentals of Project Planning and Management  
**Certification Date:** February 2018 – Present,  
**License: T6NEDT3X26VT**  
<https://www.coursera.org/account/accomplishments/verify/T6NEDT3X26VT>
7. PRINCE2 Project Management Certification  
**Certification Date:** July 2014 – Present,  
**Registration Number: P2R/590707**

### **SCIENCE & TECHNOLOGY CONFERENCES, WORKSHOPS AND SEMINARS**

1. Coordinator and Chairperson of the 1<sup>st</sup> eHealth Workshop at the University of Botswana in collaborating with the University of Kwazulu-Natal, South Africa, 26-27 September, 2017.
2. Coordinator and Chairperson of the 2<sup>nd</sup> eHealth Workshop in Botswana in collaboration with Ministry of Health, Botswana Institute for Technology Research and Innovation and Ministry of Transport and Communication, 30-31 October 2018. Workshop theme: "The Promise of Open Source Technology to Sustainable eHealth Solutions".
3. Panel Speaker at the 4<sup>th</sup> Institute of Health Science Conference, Gaborone, Botswana, 4-6 September, Gaborone, Botswana.
4. Chair of mHealth session at the IST AFRICA conference, Gaborone, Botswana, 9-11 May 2018.
5. Guest Speaker at the Botswana Innovation Hub, on the Promise of mHealth for resource constrained environments, April 20, 2018.
6. Guest Speaker on eHealth, at the 1<sup>st</sup> Women's Health Conference in Botswana, May 16 – 18, 2018.
7. Guest Lecture at the University of Western Cape, South Africa, on Health Knowledge and Information Management, 12 – 13, March 2018.
8. Coordinator of the Computer Science seminar/workshop on Research Electronic Data Capture (REDCap). Presentation date: 12 October 2016.
9. Panel Chair at the "The Fourth IASTED International Conference,

- Health Informatics (AfricaHI 2016)", September 5 - 7, 2016  
Gaborone, Botswana.
10. Panel Member at the Botswana ICT Conference, September 5<sup>th</sup> ,  
2014.
  11. Served as Panel Member under the Health Informatics  
theme at the IASTED Conference, September 1<sup>st</sup> -3<sup>rd</sup>, 2014
  12. Poster presenter at the 5th International Botswana HIV  
Conference, August 20-23<sup>rd</sup>, 2014
  13. Presenter at the 2013 Mobile Health (mHealth) Youth  
Innovation competition workshop, March 24<sup>th</sup> 2013.
  14. Presenter at the Mobile Learning (mLearning) training workshop at  
the UB School of Medicine, February 2013.
  15. Project Management course with the University of Botswana, April  
2013.
  16. Trained on the ISO 9001 by Botswana Bureau of Standards (BOBS),  
22<sup>nd</sup> – 26<sup>th</sup> September 2008.
  17. Attended High Education Quality Management Initiative for  
Southern Africa (HEQMISA) workshop, 29<sup>th</sup> October – 2<sup>nd</sup>  
November 2007.
  18. eLearning workshop from August to November  
2006, University of Botswana
  19. Microsoft Windows Server 2003 Active Directory workshop,  
November 2006.
  20. Balanced Score Card Training workshop in October, 2006.
  21. Records and Information management workshop in September  
2006.

### **INTERNATIONAL SCIENCE & TECHNOLOGY CONFERENCES**

1. Cyber Security Conference, Gaborone, Botswana, 1-2<sup>nd</sup>  
November 2018.
2. International Data Week, Gaborone, Botswana, 5-8<sup>th</sup> November,  
2018
3. 4<sup>th</sup> International Conference on Health Research and Innovation,

- Gaborone, Botswana, September 4-6<sup>th</sup>, 2018
4. 10<sup>th</sup> International Research Electronic Data Capture (REDCap), Chicago, USA, August 19-22<sup>nd</sup>, 2018
  5. 22<sup>nd</sup> International Conference on Telemedicine and eHealth, Casablanca, Morocco, December 6-8<sup>th</sup>, 2017
  6. Cyber Security Conference, Johannesburg, South Africa, August 14-16<sup>th</sup> 2017.
  7. IEEE AFRICON Conference in Cape Town, South Africa, September 18-20<sup>th</sup> 2017.
  8. International Conference on Education, Development and Innovation in Accra Ghana, August 28<sup>th</sup> - 30<sup>th</sup>, 2017.
  9. The Fourth IASTED International Conference, September, 2016
  10. Internet and Cyber Security Conference, May 2016
  11. ICT Conference, September 2015
  12. ICT Conference, September 5<sup>th</sup>, 2014
  13. IASTED International Conference, September 1-3, 2014
  14. 5<sup>th</sup> International Botswana HIV Conference, August 20-23, 2014
  15. Botswana Health Informatics Conference (Pitso), June 12-13, 2013
  16. Botswana Health Informatics Conference (Pitso), June 12-13, 2012, as a member of the organizing committee
  17. International Conference on Software Engineering (ICSE), held in Cape Town on the 6<sup>th</sup> May 2010.

## **RESEARCH EXPERIENCE**

1. Feasibility study on use of drones to deliver healthcare products in Botswana: A case for Gaborone, Conference Proceeding, 2018.
2. Who owns Patient data between patient and doctor? A case for interoperability standards for medical knowledge discovery, International Data Week Conference, Gaborone, Botswana, Nov 5-9 2018.  
2018
3. Framework for Monitoring Mental Health Status Using Social Media, International Data Week Conference, Gaborone, Botswana, Nov 5-9 2018.
4. Moving Forward with eHealth Interoperability: Botswana as an Exemplar for Similar Developing Countries, International Data Week Conference, Gaborone, Botswana, Nov 5-9 2018.

5. Botswana's Big Data Medical Science Research and Development, International Data Week Conference, Gaborone, Botswana, Nov 5-9 2018
6. Implementing a School Vision Screening Program in Botswana Using Smartphone Technology, Manuscript ID: TMJ-2018-0213.R1, Journal: Telemedicine and e-Health, Acceptance Date: 20 December, 2018
7. Electronic Data Collection and Monitoring Tool for Cutaneous Lymphomas in Botswana, International Data Week Conference, Gaborone, Botswana, Nov 5-9 2018.
8. Security Measures for the Television White Space (TVWS) Telemedicine Connectivity in Botswana, - for presentation at the Cyber Security Conference in Johannesburg, South Africa (August 14-16<sup>th</sup> 2017)
9. Network Performance Analysis of the Television White Space (TVWS) Connectivity for Telemedicine: A Case for Botswana - for presentation at the upcoming IEEE AFRICON Conference in Cape Town, South Africa (September 18-20<sup>th</sup> 2017)
10. University - Industry Collaborations on eHealth Initiatives - A Case for the University of Botswana - for presentation at the upcoming International Conference on Education, Development and Innovation in Accra Ghana (August 28th - 30th, 2017).
11. e-Health Interoperability Landscape: Botswana, Proceedings of "The Fourth IASTED International Conference, Health Informatics (AfricaHI 2016)", September 5 - 7, 2016 Gaborone, Botswana
12. Challenges in Password usability- Users perspective, Proceedings of "The First International Conference on the Internet, Cyber Security and Information Systems, ICICIS". 18th – 20th May 2016 GICC, Gaborone, Botswana.
13. Scaling Up a Mobile Telemedicine Solution in Botswana: Keys to Sustainability, 2014  
(<http://journal.frontiersin.org/Journal/10.3389/fpubh.2014.00275/abstract>)
14. Evaluating the clinical impact of a mobile telemedicine system on patients with complicated oral lesions in Botswana, 2012, (co-author).
15. An MSc Dissertation in Computer Science – Exploring the Use of



Artificial Intelligence through Neural Networks for Preliminary Project  
Cost and Duration Estimates in Botswana, 2013 (author)

16. Information Technology Diffusion in Botswana, Computer Science  
Department, University of Botswana, 2003 (Research Assistant)

### **Book Chapter Contribution**

1. Contributed a Chapter Titled "Telemedicine in Low Resource Settings: A Case for Botswana", on Book titled "Health Information Systems and the Advancement of Medical Practice in Developing Countries",  
A volume in the Advances in Human Services and Public Health (AHSPH) Book Series, Identifiers: LCCN 2016057905 | ISBN 9781522522621 (hardcover) | ISBN 9781522522638 (ebook).

### **CURRICULUM REVIEWS**

1. Degree in Health Information Management, Botho University, Gaborone, 2014

### **CURRICULUM DEVELOPMENT EXPERIENCE**

1. Bachelor Degree in Health Informatics, Boitekanelo College, Gaborone, 2017 (On-going and BQA Qualification submitted)
2. Introduction to Health Informatics Module Course, University of Botswana, 2015

### **LANGUAGES**

- Setswana
- English

## **REFEREES**

1. Mr. Ryan Littmann- Quinn, Director Innovation & Sustainable Development – Botswana-UPenn Partnership,  
[ryanlittmanquinn@gmail.com](mailto:ryanlittmanquinn@gmail.com) 3554855/75292927
2. Dr. Andrew Steenhoff, MBBCh, DCH(UK), FCPaed(SA), FAAP  
Assistant Professor of Pediatrics, Perelman School of Medicine  
at the University of Pennsylvania & Medical Director,  
Children's Hospital of Philadelphia Global Health Center,  
[steenhoff@email.chop.edu](mailto:steenhoff@email.chop.edu)
3. Dr. Audrey Masizana, Head of Department, Computer  
Science, University of Botswana, [MASIZANA@mopipi.ub.bw](mailto:MASIZANA@mopipi.ub.bw),  
3552131, 74357013
4. Dr. Motsholathebe Phuthogo, Maxillofacial Surgeon,  
Bokamoso Private Hospital,  
[mphuthego@hotmail.com](mailto:mphuthego@hotmail.com)