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**CURRICULUM VITAE: Dr. Annabella Habinka Dorothy Basaza (PhD)**

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<b>NAME</b> Annabella Habinka Dorothy Basaza, (PhD)	<b>POSITION TITLE</b> Academic Registrar, St Augustine International University P.O Box 26687, Mbarara, Uganda <i>E-mail : <a href="mailto:ar@saiu.ac.ug">ar@saiu.ac.ug</a> / <a href="mailto:aejiri@saiu.ac.ug">aejiri@saiu.ac.ug</a> / <a href="mailto:annabinka@yahoo.co.uk">annabinka@yahoo.co.uk</a></i> Tel: +2564854 21575, Mobile: +256772571444 and +256 751059080		
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE (if applicable)</b>	<b>Completion Date MM/YYYY</b>	<b>FIELD OF STUDY</b>
Mbarara University of Science and Technology, Mbarara, Uganda	BSc.	01/05	Computer Science
Makerere University, Kampala, Uganda	MSc.	01/08	Information Systems
University of Groningen, Netherlands	PhD	07/12	Information Systems
Jackson State University	Fellow	04/10	Computer Science
San Francisco State University	Fellow	05/13	Computer Science
Uganda National Council of Science and Technology	Fellow	12/15	Science Policy

**A. Personal Statement**

Annabella completed her PhD at the University of Groningen in July 2012 titled “A Decision Enhancement Studio for Starting a Miners Enterprise in Uganda” where she published a number of conference papers from 2009 to date sponsored by NUFFIC-Netherlands Government. The positive benefits of technology demonstrated by my PhD research, have been used as the basis for the government of Uganda Ministry of Energy and Minerals Development- mining sector and international agencies to focus their attention embracing technology assisted Interventions to enhance decision making. During my PhD study, Annabella gained the expertise and experience of using both qualitative and quantitative data to evaluate the proposed innovative studio.

I have a passion in ICT in development a crossing cutting research area which applies ICT in various fields such as biodiversity, life-sciences and environmental studies. I am interested in pedagogy applicable to effective learning practices, student-focused and hands-on intention, facilities review and exposure leading to laboratory equipment identification and usage, and familiarity with cutting-edge research topics. Am interested in relevant curricular development that will enhance the countries development agenda and progress MUST research and the national development agenda.

**I aspire** to be an innovation driven researcher for community transformation. My aspirations are to be a leading curriculum developer, researcher, and teacher using student-centered teaching, assessment and blended learning techniques in the environmental, Life Sciences and Biodiversity. Using a hybrid of ICT methods to solve mining industry problems through engaged research and novel techniques for quality research outputs that enhance decision making is my aspiration. I also aspire to develop demand driven sustainable programmes that generate income to the University as well as community-based innovative research using cost effective methods.

Since 2012, I have served as a co-investigator on the various innovation technology studies in which am an expert and mentor in engineering - ICT issues at several hack-a-thons in Mbarara and Boston. Additionally, I have experience in handling technology adoption models in Uganda and modeling for positive outcomes. I have also led a teams on a Ministry of Health project handling Technology designs for data integration in Uganda's health Centers and the ministry. My research interests include development related innovative research, evaluation and technology adoption, e-learning, Science Technology Engineering and Mathematics enhancement among secondary students, ICT in development, research uptake, science communication, science policy, curriculum development. Through these experiences, I have gained diverse rich expertise in development, implementation and evaluation of mobile technologies to improve healthcare, mining enterprises, provision in rural Uganda.

### **B. Positions and Honors**

July 2015 – to Date	Director, Senior Lecturer - Institute of Computer Science, Mbarara University of Science and Technology, Uganda
2011 – 2013	Head of Computer Science Department, Institute of Computer Science, Mbarara University of Science and Technology, Uganda
2007 – 2013	Lecturer, Department of Computer Science, Institute of Computer Science, Mbarara University of Science and Technology
2004 – 2007	Assistant Lecturer, Institute of Computer Science, Mbarara University of Science and Technology, Uganda

### **Other Experience and Professional Memberships**

2010 – to date Association of Computing Machinery (ACM), Association of Information Systems (AIS), SIGITE

### **C. CONTRIBUTION TO SCIENCE**

1. Connolly R, Miller J, Uzoka F, Lunt B, Schroeder M, Miller C, **Habinka** A (2016).Red Fish Blue Fish: Re-examining Student Understanding of the Computing Disciplines, Association of Computing Machinery, SIGITE'16, September 28-October 1, 2016, Boston, MA, United States. Copyright 2016 ACM 1-58113-000-0/00/0010
2. **Identification of factors that influence social media in teaching:** This research attempted to describe such conditions and consequences when teachers experiment using it in teaching using social media sites. The research findings arrived at using the grounded theory show that the conditions which affect the teachers/students' work in social media.
  - a) Basaza-Ejiri (2015) Adoption of Social Media For Sustainable Development Learning and Teaching- October 14th – 16th 2015 at the 5th African Regional Center of Expertise Conference, Imperial Botanical Beach Hotel and Convention Center, Entebbe Uganda
  - b) Nekesa, J and Basaza, H.A.D (2014) The Impact of Social Media on a University Community: A Case Study of Mbarara University of Science and Technology, ARDC 2014 MUST.

3. **From Science to Policy:** This study presented how the science to policy gap is being bridged by the Uganda National Council of Science and Technology – Research Fellows at the Ministry of Education Science Technology and Sports (MoESTS). To inform future practices in improving engagement between the scientific community and the policy makers, awareness and knowledge of both parties remain paramount in framing a way forward in bridging this historical gap.
  - a) Basaza-Ejiri (2015) From Science to Policy using Evidence: how research can inform public service: case study ministry of education science technology and sports, Uganda: October 14th – 16th 2015 at the 5th African Regional Center of Expertise Conference, Imperial Botanical Beach Hotel and Convention Center , Entebbe Uganda
  - b) Basaza-Ejiri (2015) Experience of Research Fellowship Engagement with the Ministry of Education Science Technology and Sports, Session: Policy-Research Engagement on 30th August to 3rd September 2015 at the East African Research and Innovations Management Association (EARIMA) Venue: Grand Global Hotel, Kampala, Uganda.
4. **Wireless sensor hints for effective drug monitoring:** This paper presents a framework that shows how e-health monitoring devices can improve their performance using sensor hints. This is made possible since mobile devices come equipped with global positioning system (GPS), accelerometers, gyroscopes and magnetic compasses that provide hints about the mobile devices state and environment.
  - a) Basaza-Ejiri H.A.D and Ejiri A.O.C. (2014) Wireless sensor hints for effective drug monitoring-wise-pill, International Journal of Advanced Research in Information Systems,
5. **Access control to Higher Education facilities:** The Magnetic Stripe card is the most widely used technology since it is inexpensive, easily manufactured, encoded and its ability to carry alphanumeric data which suits resource-constrained environments like Higher Education Institutions.
  - a. Basaza-Ejiri. H.A.D 2013, Access Control to Classified Facilities – Magnetic Strip Access Control, Lambert Academic Publishing, ISBN 978-3-659-44499-9
  - b. Ejiri A.H., (2011). ICT to Enhance Higher Education Institution Access Control: the Magnetic Strip Mechanism, 7<sup>th</sup> Research Dissemination Conference: Track: ICT Innovations for Society Transformation, Nov 11<sup>th</sup> 2011. (peer reviewed)
6. **ICT and food security:** This study designed a framework to harness SMS for prediction of food insecurity/crisis. As people exchange messages using phones, service providers keep copies of these messages. Some information contained in these messages relate to food insecurity. For example phone messages can contain information about poor harvest, poor rainfall patterns, pest attacks and food crisis. Information such as this can be vital in extracting patterns for predicting food insecurity.
  - a) Ejiri H.A.B, & Ejiri A.O.C, 2012, Decision Enhancement Services For Monitoring Food Security in Developing Countries, paper presented at the *Planet Under Pressure* 2012, London, 26<sup>th</sup> – 29<sup>th</sup> March (peer reviewed)
  - b) Basaza, H.A.D (2014) Harnessing phone messages for prediction of food crisis: Case study Uganda: Australian Alumina Awards Conference. October 8<sup>th</sup> – 10<sup>th</sup> at Speke Resort Munyonyo
7. **Decision Enhancement Studio for Starting a Miners Enterprise in Uganda,** In this study, we identified enterprise start-up issues in mining SMEs in Uganda. The research developed and evaluated a studio for enhancing mining enterprise start-ups in Uganda. This helps to facilitate the mining knowledge service centers in their enterprise start-up role in Uganda and countries with similar contexts.

- a) Basaza, H.A.D. 2012, *Decision Enhancement Studio for Starting a Miners Enterprise in Uganda*, The University of Groningen, Groningen, The Netherlands.
- b) Basaza-Ejiri, H.A.D (2013), ICT Usage in The Mining Non- Formal Sector: The Case of Uganda, Conference proceeding, Annual Dissemination Conference- MUST pg 1-9. (peer reviewed)
- c) Ejiri A. H.B., (2012) How to Use ICT to Improve the Start-up Decision Process for a Mining Entrepreneur in Uganda, Mineral Wealth Conference 2012, Show casing Uganda's mining potential, 1<sup>st</sup> – 2<sup>nd</sup> October 2012, Serena Hotel, Kampala. (peer reviewed)
- d) Ejiri A.H., and Vallejo, B., (2012). Institutional and Organizational Change in the Adoption of new ICT Tools. Problems and Challenges, *Knowledge Innovation Network Dynamics 2012*, Paris, June 25<sup>th</sup> – 26<sup>th</sup> 2012. (peer reviewed)
- e) Ejiri A.H., (2012). Geospatial Web-Based Services for Mining Enterprise Start-Ups in Uganda, Planet Under Pressure 2012 March 26<sup>th</sup> – 29<sup>th</sup> London (peer reviewed)
- f) Ejiri A.H., and SOL H.G., (2012), Decision Enhancement Services for Small and Medium Enterprise Start-ups in Uganda, *Hawaii International Conference on Systems Sciences (HICSS-45) – IEEE*, 4<sup>th</sup> – 7<sup>th</sup> January 2012, pp:1430-1439.
- g) Ejiri A.H., (2011). Exploring issues underlying starting mining enterprises in Uganda, Mbarara University of Science and Technology, 7<sup>th</sup> Research Dissemination Conference: Track: Business, Finance and entrepreneurship, Nov 11<sup>th</sup> 2011. (peer reviewed)
- h) Habinka E.A., (2011). Decision Enhancement For Starting Clay Mining Enterprises in Uganda, 1<sup>st</sup> International Conference on Clays and Clay Minerals in Africa and 2nd International Conference on Geophagia in South Africa, An Innovative Perspective on the Role of Clays and Clay Minerals and Geophagia on Economic Development, 19-21 Oct 2011, Bloemfontein, South Africa. Editors: G-I.E. Ekosse, L. de Jager, and V.M. Ngole, ISBN: 978-0-629-51541-2 available on <http://www.claymineralsafrica.co.za/html/ebook2.html#toc>.
- i) Ejiri, A.H., Nabukenya, J., and Sol H.G., (2011). A Studio Based Approach To Enhancing Decision Making in SME Start-Up, 7<sup>th</sup> International Conference on Computing and ICT Research (IC CIR'11), 167: 1-15: August 7-9, 2011, Protea Hotel, Kampala.
- j) Habinka A., Sol. H.G., and Baryamureeba V., (2009). "Knowledge Management for Small and Medium Enterprises in Developing Countries – Uganda: A Studio Based Approach", *Conference proceedings of European Conference on Intellectual Capital: INHolland University of Applied Sciences, Haarlem, the Netherlands: April 28–29, 2009, ISBN: 987-1-906638-30-6CD*, pp. 246 – 253.
- k) Habinka A., Sol. H.G., and Baryamureeba V., (2009). "Approaches towards Effective Knowledge Management for Small and Medium Enterprises in Developing Countries - Uganda" *IST-Africa 2009 Conference Proceedings, IIMC International Information Management Corporation, 2009, ISBN: 978-1-905824-11-3: May 6-8 2009, Munyonyo Resort Ggaba, Kampala.* <http://www.ist-africa.org/Conference2009/default.asp?page=paper-repository>

**8. ICT and Maternal Child Health Service Delivery:** This study aimed at developing a framework that can be used by such stakeholders to successfully achieve Maternal Child Health. The study also sought to explore the challenges that impede MCH and these formed a basis for the requirements of the framework to be designed. To achieve this, we followed the design science approach. This research presents decision enhancement services as an effective intervention to improve MCH service delivery mechanism with a

perspective that emphasizes constant communication and prioritization to support decision-making.

- a) Ejiri A.H., (2012). Decision Enhancement Design for Maternal and Child Health Service Delivery in a Resource Constrained Setting, ICCIR12, August 5-7<sup>th</sup> 2012.

#### **D. ONGOING RESEARCH SUPPORT**

##### **UPTODATE: PI: Samuel Maling,**

July 2016 – July 2021

Title: Impact evaluation of the provision of access to an evidence-based clinical resource (UpToDate) to undergraduate medical students in sub-Saharan Africa

Purpose: To assess the impact of providing free access to UpToDate to medical students on their educational outcomes

Role: Co-Investigator

Amount: 1,000,000 USD

##### **NIH K23 MH099916 (PI: Siedner)**

07/08/13 – 06/30/18

Title: Behavioral Aspects of Low-cost Medical Devices to Improve HIV Care

Purpose: To develop a technology acceptance model for behavioral evaluation of novel, patient-centered interventions in resource-limited settings.

Role: Co-Investigator

Amount: 17,000USD

##### **Mount Royal University, CANADA (PI: Janet Miller)**

01/07/16 – 31/08/17

Title: Investigating Students' Knowledge of the Computing Sub-Disciplines:

Purpose: Recommendations for Career Counselors' and Curriculum Developers

Role: Co-Investigator

Amount: 22,000CaUSD

##### **World Bank- Ministry of Health Project**

01/02/16 – 30/08/16

Title: Development of Unified Infrastructure and Implementation Plan for Interconnecting health facilities

Role: Principal Investigator

Amount: 100,000USD

##### **ISP: UPPSALA University**

01/02/16 – 30/08/16

Title: Gender Enhancement in Science and Technology in Mbarara:

Role: Co-Investigator

Amount: 50,000Sec

##### **Micro research initiative – Canada**

01/10/16 – 30/08/17

Title: Understanding Factors Contributing to Teenage Pregnancy in Kabingo Sub-county, Isingiro District, Uganda

Role: Co-Investigator

Amount: 2000USD

##### **Bacca Foundation (PI: Data)**

1/11/12 – 1/11/18

Title: Consortium for Affordable Medical Technologies (CAMTech)

Role: Co-Investigator

Amount: 500,000USD

#### **COMPLETED RESEARCH SUPPORT**

##### **NUFFIC**

2007 – 2012

A Decision Enhancement Studio for Starting a Miners Enterprise in Uganda

##### **NUFFIC**

2005 -2007

A Client Server Access Control System for Higher Education Institutions: A Magnetic Card Mechanism.

##### **Basaza's**

2004

A Computerized Record Tracking System for Mbarara Taxi Owners and Drivers Association.  
**Self** 1/12/11–31/12/13

Decision Enhancement for Maternal and Child Health Service Delivery in a Resource Constrained Setting in Western Uganda.

**UNESCO and UNICEF:**

**2014 – 2016**

Promoting the Rights of Persons with Disabilities for the commissioning of a programme titled Uganda Promoting the Rights of Persons with Disabilities : (Role: ICT expert)

**Fulbright Scholar**

**(2015 – 2016)**

Capacity Building, Curriculum development and Research Prof. Thomas Parks – University of Colgate Newyork

**Carnegie Africans in the Diaspora: (2015)**

**(Dec 1<sup>st</sup> 2014 – Jan 15<sup>th</sup> 2015)**

Capacity Building and Research - Prof. Faith-Michael Uzoka

**Research Fellow:**

**January 2015 – December 2015**

The Development Research Uptake in Sub-Saharan Africa (DRUSSA) policy fellow with Ministry of Education Science Technology and Sports (MOESTS)