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

NAME Annabella Habinka Dorothy Basaza, (PhD)	POSITION TITLE Academic Registrar, St Augustine International University P.O Box 26687, Mbarara, Uganda <i>E-mail</i> : ar@saiu.ac.ug / aejiri@saiu.ac.ug / annabinka@yahoo.co.uk Tel: +2564854 21575, Mobile: +256772571444 and +256 751059080		
INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
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. ICT and Health: Various evaluation studies of health sector facilities were handled to identify facilitators and inhibitors of the usage of ICT to enhance the facilities primary role of health service delivery.

a) Katusiime A. and **Ejiri A.H** (2017). Examining factors that determine Information System Success in Rural Uganda: A case of Ruhira Millennium Village Projects, International Conference on eBusiness and eGovernment (ICEBEG:2017), 20th January 2017, Silver Springs Hotel Bugolobi, Kampala.

b) Nanyombi A. and **Ejiri A.H** (2016). Factors Influencing the Adoption of Mobile Health in Uganda Health Facilities: A Case Study of Mobile Tracking System in Kayunga, American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS); ISSN (Print) 2313-4410, ISSN (Online) 2313-4402 © Global Society of Scientific Research and Researchers accessible from http://asrjetsjournal.org/index.php/American_Scientific_Journal/article/view/1905/849

c) Muhaise H and **Ejiri A.H** (2016). Factors Influencing District Health Information Software Version 2 Success – A Case of the Greater Bushenyi Districts,

Uganda; American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS) ISSN (Print) 2313-4410, ISSN (Online) 2313-4402 © Global Society of Scientific Research and Researchers http://asrjetsjournal.org/index.php/American_Scientific_Journal/article/view/1815/911

d) Banshanga. M and **Ejiri A.H** (2016); Evaluating the Adoption of Electronic Health records (ehr) in referral hospitals, Uganda; ISSN 2305-1493; IJSK Vol 8 Issue - 1; July. 2016. Vol. 8, No.1 ISSN 2305-1493 International Journal of Scientific Knowledge Computing and Information Technology <http://www.ijsk.org/wp-content/uploads/2016/08/1-ELECTRONIC-HEALTH-RECORDS-EHR.pdf>

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

2. ICT for Education: This research looked at the curriculum of various computing fields inquiring into the understanding ability of the students concerning putting disciplines in paper a). We also looked at a webcast engineering content sharing platform in paper b).

a) 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

b) Wasswa, W. Ngobye M. **Habinka A** (2016). A Low Cost Lecture Webcasting Platform for Limited Bandwidth: Towards an Integrated Platform for an Engineering Curriculum Content Sharing and Management among Universities. The International Conference on Embedded Systems and Trends in Teaching Engineering, the Desire project, on 11 - 15th September 2016. http://www.desiresymposium.com/images/SESSION_PROGRAMME_1.pdf

3. 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.

4. 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.
- c) Musinguzi M. **Ejiri, A. H** (2016). Trends of Degradation of freshwater urban wetlands in Kampala, Uganda: a case study of lubigi wetland, *International Journal of Scientific Knowledge Computing and Information Technology*: 23-32. June. 2016. Vol. 4. No.3 ISSN 2311-2484 International Journal of Research In Earth & Environmental Sciences <http://www.ijsk.org/wp-content/uploads/2016/03/1-Land-degradation.pdf>

5. 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*,

6. 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, 7th Research Dissemination Conference: Track: ICT Innovations for Society Transformation, Nov 11th 2011. (peer reviewed)

7. 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, 26th – 29th 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 8th – 10th at Speke Resort Munyonyo

8. 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, 1st – 2nd 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 25th – 26th 2012. (peer reviewed)

e) **Ejiri A.H.**, (2012). Geospatial Web-Based Services for Mining Enterprise Start-Ups in Uganda, Planet Under Pressure 2012 March 26th – 29th 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*, 4th – 7th January 2012, pp:1430-1439.

g) **Ejiri A.H.**, (2011). Exploring issues underlying starting mining enterprises in Uganda, Mbarara University of Science and Technology, 7th Research Dissemination Conference: Track: Business, Finance and entrepreneurship, Nov 11th 2011. (peer reviewed)

h) **Habinka E.A.**, (2011). Decision Enhancement For Starting Clay Mining Enterprises in Uganda, 1st 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, 7th *International Conference on Computing and ICT Research (ICCIR'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>

SUPERVISION:

Masters Students Supervised to Completion:

1. Asiinah Nanyombi: A MODEL FOR ADOPTION OF MOBILE TRACKING SYSTEM IN RESOURCE CONSTRAINED DISTRICTS OF UGANDA: A CASE STUDY OF KAYUNGA DISTRICT
2. Hussein Muhaise: Evaluation of District Health Information Software Version 2 (DHIS2) Success Factors – A Case for the Greater Bushenyi Districts, Uganda
3. Martin Musinguzi: A MODEL FOR DETERMINING THE FUTURE OF A WETLAND USING SATELLITE IMAGES: A CASE OF LUBIGI WETLAND
4. Maureen Banshanga: A MODEL FOR EVALUATING THE ADOPTION OF ELECTRONIC HEALTH RECORDS IN MBARARA REGIONAL REFERRAL HOSPITAL

Current students:

1. ANITA KATUSIIME ([MSC.IS](#) STUDENT)
2. ENOS NAHURIRA ([MSC.IS](#) STUDENT)
3. RAHAB ATUHAIRE ([MSC.IS](#) STUDENT)
4. LASTO MUBIRU (MSC.HIT STUDENT)
5. ALEX ASHABAHEBWA ([MSC.IS](#) STUDENT)
6. SHALLON MUSIIMENTA ([MSC.IS](#) STUDENT)
7. WILSON ADRIKO ([MSC.IS](#) STUDENT)
8. MICHEAL KANYESIGYE ([MSC.IS](#) STUDENT)
9. EDDIE MUSANA ([MSC.IS](#) STUDENT)
10. MUGONZA ROBERT (PhD STUDENT)
11. WASSWA WILLIAM (PhD STUDENT)

D. ONGOING RESEARCH SUPPORT

Intra-Africa Academic Mobility Scheme,

EACEA/07/2016 Your application 581261-PANAF-1-2016-1-KE-PANAF-MOBAF5
ABEM – **September 2016 - 2021**

Purpose: African Biomedical Engineering Mobility: Building needs-based healthcare technology competencies.

Role: Coordinator

Amount: 1,380,000Euros

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

National Communications Conference

September 15th – 16th 2016

Purpose: Linking Academia to Industry for Innovations Role: PI: Amount : 44,950,000/

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)

Fulbright Scholar

(2015 – 2016)

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

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)

Carnegie Africans in the Diaspora: (2015)

(Dec 1st 2014 – Jan 15th 2015)

Capacity Building and Research - Prof. Faith-Michael Uzoka

Self

1/12/11–31/12/13

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

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.