

CURRICULUM VITAE

Tushabe Busingye Florence, PhD



PERSONAL

Name: Tushabe Busingye Florence, PhD.
Nationality: Ugandan
Languages: English, Kiswahili, Luganda, Rukiiga
Sex: Female
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EDUCATION

- June 2013: Women Leading Global Change program, INSEAD Business School, Fontainebleau, France.
- March 2013: Executive Development Leadership Training, Harvard Business School.
- 2012-2013: Fellow, International Womens Forum (www.iwforum.org)
- 2005 - 2010: PhD Computer Science, University of Groningen, the Netherlands.
- 2002 - 2004: MSc. Computer Science, Makerere University.
- 2003: Post Graduate Certificate in Information Systems Engineering, University of Colombo, Sri Lanka.
- 1997 - 2000: Bachelor of Science with Computer Science (Upper Second Class), University of Dar-es-salaam, Tanzania.
- 1995 - 1996: Uganda Advanced Certificate of Education, Nabisunsa Girls' School.
- 1991 - 1994: Uganda Certificate of Education, Nabisunsa Girls' School

- 1984 - 1990: Primary Leaving Examination Certificate, Buganda Road Primary School.

RESEARCH PROJECTS

- 2021 – 2024: Principal Investigator, The Development of a Rapid Aflatoxin Detection Kit, funded by the **Ministry of Science, Technology and Innovation**, Uganda Government.
- 2019 - 2020: OMULUNZI IVR system for livestock farmer, Funded by the **Ministry of ICT**, Uganda Government.
- 2016: Online Learning Platform for Uganda PPDA Unit, funded by **Uganda PPDA Unit**
- 2014- 2016: Cordinator, Module content development for the Applied Computer Science Program, by the Africa Virtual University. I coordinated 30 lecturers from across Africa to develop online modules in French, English and Portuguese languages. Funded by the **African Development Bank**.
- 2011 - 2016: In partnership with the University of KwaZulu Natal in South Africa, this project was on using e-learning to train Masters students in Health informatics. Funded by the **Fogarty International**.
- 2014 - 2015: Project leader on the project to train Vocational and Technical Institutions in Uganda in ICT skills, funded by OPEC through the **Ministry of Education**, Government of Uganda.
- 2013: Innovation Specialist on the ResilientAfrica Network which is a a network of 25 universities in Africa that was building resilience using university innovations. **Funded by USAID**.
- 2012 - 2014: Team leader on the project on Data generation and language technology for low-resourced African languages. Funded by **Google**.
- 2012 - 2013: Team leader on project to Compare software usability between Rukiga and English languages. Funded by **CoCIS, Makerere University**
- 2010: Team leader on the project of using image processing techniques to diagnose fungal skin diseases. Funded by **NUFFIC**.
- 2011: An award winning project on Translation of VLC into Rukiga. Funded by **NUFFIC**. It won an award by Uganda Communications Commission.
- 2010: An award winning project Translating the Google interface into Runyakitara. Funded by **NUFFIC**. It won an award by CIO East Africa.

AWARDS

- July 2012 - July 2013: Fellow, of the Leadership Program of the International Womens Forum (<http://iwforum.org/>)
- 18th May 2012: The runner-up of the Local Content Award, by Uganda Communications Commission (UCC) at Kampala Serena Hotel.

- 18th November 2011: Best Lecturer in Computer Science Department. Given a present by the Computer Warehouse Group.
- 19th November 2010: Winner of the CIO 100 Uganda Country award. My work on translating the Google interface into Runyakitara and Luo was then recognised. These awards were organised by the East African CIO 100 premier Annual Awards ceremony that took place between the 16th - 19th of November 2010 in Nairobi.
- 2007: The Best Student paper award for the International Conference on Signal Processing and Imaging Engineering (ICSPIE'07), San Francisco, USA, 24-26 October, 2007.
- 2005 - 2010: Full academic scholarship by Nuffic to study a PhD from the University of Groningen in the Netherlands.
- 1997 - 2000: Full academic scholarship by the East African Community (IUEA) to study a Bachelors of Science in Computer Science at the University of Dar es Salaam

WORK EXPERIENCE

- Oct. 2018 - Todate, Assoc. Professor - Soroti University
- 2017 - 2018, Vice Chancellor - KIU
- 2016 - 2017, Dean, Faculty of Science and Technology - KIU Ishaka
- 2012-2015, Director, Directorate of Research and Innovation -UTAMU
- 2012 - 2018, Assoc. Prof. Computer Science - UTAMU
- 2011-2012, Head of Computer Science Dept - MUK School of Computing and IT
- 2009-2011, Acting Head of IT Department – MUK School of Computing and IT
- 2010-2011, Senior Lecturer - MUK School of Computing and IT
- 2005-2010, Assistant Lecturer – MUK Faculty of Computing
- 2006-2008, Research Coordinator - MUK Faculty of Computing
- 2001-2005, Teaching Assistant – MUK Faculty of Computing
- 2001-2003, Coordinator User Training Programmes - MUK
- 2000-2001, Systems Manager - Kabale Telecentre

SERVICE TO UNIVERSITY COMMUNITY

- 2021: Member, Steering committee, Africa IoT & AI Challenge 2021, organized by the IEEE Technology and Engineering Management Society (IEEE TEMS)
- 2020 – todote: Chairperson, Steering committee for ODEL Learning, Soroti University.
- 2018 - todote: Board member and Company Secretary, Board of Directors of Ugandan Technology and Management University.
- 2019 – todote: Vice Chairperson, Soroti University Academic Staff Association.

- 2018 to date: External examiner, St. Peter's Institute of Higher Education and Research, Chennai, India.
- 2019 – todate: External Examiner, Makerere University, Uganda.
- 2016 -2020: External examiner, Mbarara University of Science and Technology, Uganda.
- 2013 - 2016: Consultant on curriculum development, Inter-University Council of East Africa.
- 2013 to date: External examiner, University of Dar es Salaam, Tanzania.
- 2012 to date: External examiner, KwaZulu Natal University, South Africa.
- 2016 to date: External Examiner, University of Cape Town, South Africa.
- 2012 to date: External examiner, Gulu University, Uganda.
- 2011 to date: External examiner, Ndejje University, Uganda.
- 2020 to date: Reviewer, Journal of Public Health Research.
- 2015 to date: Reviewer, South African Journal of Education.
- 2015 to date: Reviewer of the Jundishapur Journal of Microbiology.
- 2011 to date: Consultant on curriculum development, National Council for Higher Education.
- 2013 to 2016: Mentor of innovation teams at UTAMU.
- 2012 -2015: Developer of several Bachelors, Masters and PhD programs in Computing discipline at Uganda Technology and Management University.
- 2011 - 2015: Team leader, Minimum Standards in Computer Science and Information Systems in Uganda by the National Council for Higher Education.
- 2015: Chairperson organizing Committee of the International Conference on Technology and Management (ICTM15).
- 2012 - 2015: Head of Innovation Saturday program at Uganda Technology and Management University.
- 2014: Reviewer of the 3rd National Conference on Communications (NCC-2014) organized by the Uganda communications Commission.
- 2012 - 2013: Member, Makerere University Female Scholarship Foundation Committee.
- 2013 - 2013: Innovations Specialist of ResilientAfrica Network, School of Public Health, Makerere University.
- 2011, Feb 2013: Minister of External Relations on MUASA Executive (Makerere University Academic Staff Association).
- 2012: Member of the Technical Program Committee for the 2012 IEEE Symposium on Industrial Electronics & Applications (ISIEA 2012), <http://www.isiea.org/2012/>.
- 2012: Reviewer for the International Conference on Systems and Informatics, <http://icsai2012.ytu.edu.cn/>.
- 2012: Reviewer for the conference on Human Language Technology for Development <http://www.hltd.org/>.

- 2011: Reviewer for the International Conference for Computing and ICT Research, <http://cit.mak.ac.ug/iccir/>.
- 2011: Team Lead, Curriculum Review for programs in the Department of Computer Science, Makerere University.
- 2011: Team Lead, Translation of software into Rukiiga.
- 2010: Organiser of the translation marathon of Mozilla Firefox into Luganda.

MEMBERSHIP TO PROFESSIONAL BODIES

I am a member of the following professional bodies:

- Association of Computing Machinery (ACM).
- Institute of Electrical and Electronics Engineers (IEEE).
- International Society for Optics and Photonics (SPIE).

SERVICE TO THE COMMUNITY

- 2016 -2019: **Vice Chairperson**, Cancer Prevention Organisation of Uganda, a NonProfit organization that fights cancer.
- 2013 - todate: **Founder** of FreeHearts Uganda, a NonProfit that caters for needs of pregnant and distressed women and their children.
- 2012 – 2018: **Head** of Board of Trustees, The Generation Free of HIV/AIDS Awareness Initiative.
- 2012 – 2016: **Consultant** on Health Informatics with the University of KwaZulu Natal in South Africa
- 2010 – 2012: **Team Leader**, Translation of 5 softwares into Rukiga i.e. Abiword, Tuxpaint, Pootle, Virtaal, and VLC.
- 2007 – 2010: **Research and Development Manager**, ALPHATECH International Ltd.
- 2009 – 2010: **Coordinator** on one Public Private Partnership Project with Google for mapping Entebbe and Jinja districts.
- 2009: **Writer** to a magazine called “Enterprise Technology Magazine”.
- 2008: **Team Leader**, Translation of Mozilla Firefox into Luganda.
- 2008 – 2009: **Team Leader**, the translation of Google into Runyakitara and Luo, Makerere University under a Nuffic project.
- 2008 – 2010: **Consultant** for firearms information system, Uganda Police Force, P.O. BOX 7055, Kampala.

Completed Supervision of PhD Students

The following students have successfully completed their Doctorate Thesis under my supervision:

1. Selvaramalakshmi P. Bhabuu: Graduated from Bharathidasan University, India in 2017
2. Kaggwa Fred: Graduated from Mbarara University of Science and Technology, Uganda in 2017.

Completed Supervision of Masters Students

The following students have successfully completed their Masters work under my supervision:

1. Allan Matsiko: Graduated in September 2020
2. Cranmer Ayesiga: Graduated in September 2019
3. Patrick Imalingat: Graduated in September 2018
4. Muhammad Musa: Graduated in September 2018
5. Ocen Samuel: Graduated in September 2017.
6. Amori Geoffrey: Graduated in January 2015.
7. Magezi George William: Graduated in January 2015
8. Muchake Brian: Graduated in January 2015.
9. Kilima Godlove Frank: Graduated in January 2014.
10. Sidney Schinange: Graduated in January 2014.
11. Kakande Mathew: Graduated in January 2013.
12. Namusisi Rukiya: Graduated in January 2012.

PUBLICATIONS

Printed Books/Thesis/Dissertation

1. Florence Tushabe (2016): **“Remembering Odilar Kobukindo Busingye”** Bishop Stuart Press.
2. Florence Tushabe (2010): **“Extending Attribute Filters to Color Processing and Multimedia Applications”** (PhD Thesis, ISBN: 978-90-367-4630-4).
3. Florence Tushabe (2004): **“Computer Forensics for Cyberspace Crimes.”** (MSc. Dissertation).

Journal/Conference Publications

1. **F. Tushabe (2020), Comparison of Covid-19 Severity Between Tropical and Non Tropical Countries, Jul 2020, 7 (3), International Journal of infection. DOI: 10.5812/iji.104142**
2. **P. Selvaramalakshmi, S. Hari Ganesh, F. Tushabe, (2016), An Improved Performance Evaluation on Large-Scale Data using MapReduce Technique, International Journal of Computer Science and Mobile Computing, Vol. 5, Issue. 12, December 2016, pg. 92 - 102.**
3. **P. Selvaramalakshmi, S. H. Ganesh and F. Tushabe, (2016), An Improved Similarity Joins Using SSPS and Map Reduce Technique on Large-Scale Data, International Journal of Control Theory and Applications, ISSN 0974-5572.**
4. **F. Kaggwa, J. Ngubiri, F. Tushabe, (2016), Combined Feature Level and Score Level Fusion Gabor Filter-Based Multiple Enrollment Fingerprint Recognition, International Journal of Computer Science and Information Security, July 2016 issue, Vol. 14, No. 7.**
5. **F. Kaggwa, J. Ngubiri, F. Tushabe, (2016), "Gabor Filter-based Multiple Enrollment Fingerprint Recognition", International Journal of Computer Applications, ISBN : 973-93-80891-70-9, URL : <http://www.ijcaonline.org/archives/volume139/number7/24506-2016909210>.**
6. **F. Kaggwa, J. Ngubiri, F. Tushabe, (2015), "Improving Recognition Performance in Multiple Enrollment Based Fingerprint Recognition Systems", Proceedings of the International Conference on Computer Vision and Pattern Recognition ICCVPR' 15, 11 -13th June, Tunisia.**
7. **G. Amori and F. Tushabe (2015), ""Height of Quality" A Web-Based Sales Promotion Computer Game", Proceedings of the International Conference of Technology and Management, August 2- 4th 2015, Kampala, Uganda.**
8. **G. W. Magezi and F. Tushabe (2015), "Small and Medium Enterprises IT Security Outsourcing Framework (SMEISOF), Proceedings of the International Conference of Technology and Management, August 2- 4th 2015, Kampala, Uganda.**
9. **F. Kaggwa, J. Ngubiri, F. Tushabe, (2015), "Multiple Enrollment for Fingerprint Recognition: State of the Art Survey" International Journal of Computer and Information Technology (IJCIT).**
10. **B. Muchake, P. Nabende and F. Tushabe, (2014): "Framework for Cross Lingual Bitext Collection and Extraction for Native Resource Constrained Languages", Proceedings of the 3rd National Conference on Communications (NCC-2014), Paper 1, A Uganda communications Commission.**
11. **F. Kaggwa, J. Ngubiri, F. Tushabe, (2014) "Evaluation of Multiple Enrollment for Fingerprint Recognition," IEEE 2014 Global Summit on Computer & Information Technology (GSCIT), pp.1-6, 14-16 June 2014 ISBN: 978-1-4799-5626-5.**
12. **F. Kaggwa, J. Ngubiri and F. Tushabe (2014): Evaluation of Multiple Enrollment for Fingerprint recognition, International Conference on Computer Vision and Pattern Recognition, 2014. May 2014.**

13. **F. Tushabe** and M. H. F. Wilkinson (2012): **Color Image Processing using Max-trees: A comparison on Image Compression**, Proceedings of the IEEE 2012 International Conference on Systems and Informatics (ICSAI 2012)" International Conference on Systems and Informatics (ICSAI 2012), 19th – 20th May 2012, China.
14. L. Namusisi and F. Tushabe, (2011): "**An e-voting Framework for Improving E-governance in Uganda**" presented in the International Conference for Computing and ICT Research, Aug 7-9 2011, Kampala, Uganda.
15. F. Tushabe, E. Mwebaze and F. Kiwanuka, (2011): "**An image-based Diagnosis of Virus and bacterial Skin Infections**", presented in the International Conference for Computing and ICT Research, Aug 7-9 2011, Kampala, Uganda.
16. F. Tushabe and V. Baryamureeba (2010): "**Implications of Cyber Crime on Social-Economic Development**", At the launch of the African Center for Cyberlaw and Cybercrime prevention, The United Nations African institute for the prevention of crime and the treatment of offenders, 26 - 27th August 2010, Kampala, Uganda.
17. F. Tushabe, V. Baryamureeba and F. Katushemererwe (2010): "**The Translation of the Google Interface into Runyakitara**", presented in the International Conference for Computing and ICT Research, Aug 1-4 2010, Kampala, Uganda. Pgs 236-245, ISBN 978-9970-25-015-8
18. Tushabe, F., Wilkinson, M. H. F. (2010), "**Effect of selected attribute filters on watermarks**" in Second International Conference on Digital Image Processing, 26th February 2010, Singapore. Edited by Kamaruzaman Jusoff, Yi Xie, Proceedings of SPIE Vol. 7546 (SPIE, Bellingham, WA 2010) 75463E.
19. F. Tushabe, M. H. F. Wilkinson (2008): "**Content-based Image Retrieval Using Combined 2D Attribute Pattern Spectra**", In: Advances in Multilingual and Multimodal Information Retrieval, Vol. 5152/2008, pp 554-561, LNCS, Springer - Verlag Berlin Heidelberg, 2008. ISBN: 978-3-540-85759-4
20. F. Tushabe, P. Jehopio, V. Baryamureeba, P. Bagyenda and C. Ogwang (2008): "**The Status of Software Usability in Uganda**", Proceedings of the International Conference of Computing and ICT Research, August 3, 5th 2008, Kampala, Uganda. Pgs 1-11, ISBN 978-9970-02-871-2
21. F. Tushabe and M. H. F. Wilkinson (2007): "**Content-based Image Retrieval Using Shape-Size Pattern Spectra**", Proceeding for the Cross Language Evaluation Forum 2007 Workshop, ImageClef Track. Budapest, Hungary, 19 - 21 September 2007.
22. F. Tushabe and M. H. F. Wilkinson (2007): "**Image Preprocessing for Compression: Attribute Filtering**", Proc. Signal Processing and Imaging Engineering (ICSPIE'07), San Francisco, USA, 24-26 October, 2007. Volume 2167, ISBN: 978-988-98671-6-4.
23. V. Baryamureeba, F. Tushabe (2006): "**The Enhanced Digital Investigation Process Model**", Asian Journal of Information Technology, Volume 5 issue 7, Pages 790 - 794, 2006. ISSN : 1682-3915 (Print) ISSN : 1993-5994 (Online)

24. V. Baryamureeba, F. Tushabe (2005): ``**Cyber Crime in Uganda: Myth or Reality**'', The World Academy of Science, Engineering and Technology, Volume 8, pages 66 – 70, ISSN: 1307-6884.
25. Venansius Baryamureeba and Florence Tushabe (2004): "**The Enhanced Digital Investigation Process Model**", Proceedings of the Digital Forensic Research Workshop, Maryland, USA, August 11-13.

REFEREES

1. Prof. Venansius Baryamureeba,
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