**PROFESSOR VENANSIUS BARYAMUREEBA, PhD**

**Curriculum Vitae (CV) - Abridged Version; January 2017**

1. **Executive Summary**

Venansius Baryamureeba is a Professor of Computer Science and holds a Ph.D. in Computer Science, M.Sc. in Computer Science, M.Sc. (Mathematics)-Coursework, Post Graduate Diploma in Analysing Linear Programming Models and B.Sc. (Hons) among other qualifications.

He was a Presidential Candidate in the February 18, 2016 Presidential Election of the Republic of Uganda. He served as Founding (1st) Vice Chancellor of Uganda Technology And Management University (UTAMU) (2012 –2015); 14th Vice Chancellor of Makerere University (2009—2012); Dean of Makerere University Faculty of Computing and IT (2005—2009) and Director Makerere University Institute of Computer Science (2001—2005). He joined Makerere University in 1994 as a Teaching Assistant and rose through the ranks and was appointed a full Professor of Computer Science at Makerere University in 2006.

He has served as the Chairperson of: Board of Directors of Uganda Technology and Management University; Board of Trustees of Uganda Technology Technology and Management University; Makerere University Senate; Makerere University Management; Makerere University Business School Council; St. Augustine International University Council; Uganda Business and Technical Examinations Board; Uganda Vice Chancellors Forum; Common Market for Eastern and Southern Africa (COMESA) Innovation Council; Inter-University Council of East Africa; Research and Education Network of Uganda; ICT Consults Ltd; and Appointments Board of Busitema University among others.

He has served as a Member of: Makerere University Council; Makerere University Senate; Busitema University Senate; Mbarara University of Science and Technology Senate; Uganda National Examinations Board; National Council for Higher Education; African Institute for Capacity Development; and Inter University Council of East Africa among others.

At regional level, he has coordinated multimillion-dollar regional projects and research programmes aimed at building specialized computing and human resource capacity in Africa. At the national level, he has coordinated several multimillion-dollar programmes aimed at building human resource capacity in universities and other tertiary institutions and the private and public sectors.

He has proven proficiency in attracting meaningful collaborations from public and private sectors at local and international levels. He has actively initiated and continues to initiate long-term programmes with support from various teaching and research universities, governments and organizations in Africa, Europe, Asia, and North America. These have greatly enhanced capacity in the areas of human resource, educational and joint research programmes, ICT and teaching infrastructure, gender balance and promotion (mainly in ICT/Science and Technology), relations among the universities, industry and government, and professionalization of services in government institutions.

He has a track record as a consultant in higher education and management, ICT, research, training, advisory services and policy, and recognised expertise in e-governance. He is the Chairman and Managing Director of ICT Consults Ltd, one of the prestigious ICT consultancy firms in Africa.

He has presented at several international conferences and workshops and given various key note address across the globe.

He is a distinguished academic, researcher, consultant, leader and manager as attested by the several recognitions and awards won at both national and international levels.

# Name, Date and Place of Birth

Professor Venansius Baryamureeba; May 18, 1969; Kasharara Village, Kagongo Parish, Ibanda District, Uganda.

# Present Address

Post and Physical address: Uganda Technology and Management University (UTAMU), Plot 6 and 8, Erisa Road, Kiswa, Bugolobi, P.O. Box 73307, Kampala, Uganda. Mobile: +256 776 543 999, +256 754 828 319; Email: barya@baryamureeba.ug, barya@utamu.ac.ug, prof.barya@gmail.com; Website: www.utamu.ac.ug/barya, www.baryamureeba.ug

# Educational Record: Key Qualifications

* Ph.D. in Computer Science, University of Bergen, Norway 2000
* Post Graduate Diploma in Analysing Linear Programming Models,

University of Trondheim, Norway 1997

* M.Sc. in Computer Science, University of Bergen, Norway 1996
* M.Sc. (Mathematics)-Coursework, Makerere University, Uganda 1995
* B.Sc. (Mathematics), Makerere University, Uganda 1994

# Fields of Expertise

Professor Baryamureeba is a distinguished academic, researcher, consultant, leader, and manager. He is an experienced leader and manager of higher education institutions having served successfully as the 14th Vice Chancellor of Makerere University and later as the founding Vice Chancellor of Uganda Technology and Management University. He has undertaken cutting edge research most of which has been published in international journals. He has lectured courses and supervised students in Computer Science, Networks (Data Communication), Mobile Computing, Information Systems and Software Engineering at all levels including Doctoral level. As a consultant, he has expertise in: Corporate Training, conducting needs assessment studies; formulating (ICT) Policies and Master plans; drafting corporate plans; designing strategic plans; and project planning and management. He has immense experience in setting up networks and information systems in an African setting. He is a senior consultant in ICT, higher education, planning and management.

# Employment Record

* Vice Chancellor, Uganda Technology and Management University (UTAMU), September 2012 to September 2015.
* Vice Chancellor, Makerere University, Nov. 2009 to August 2012.
* Dean, Faculty of Computing and IT, Makerere University, Oct. 2005 – June 2010.
* Director, Institute of Computer Science, Makerere University, July. 2001 – Oct. 2005
* Chairman and Managing Director, ICT Consults Ltd, Uganda, Nov. 2001 to date.
* Professor of Computer Science, School of Computing and Engineering, Uganda Technology and Management University, 2012 to date.
* Professor, Department of Computer Science, Faculty of Computing and IT later renamed School of Computing and IT, Makerere University, Nov. 2006 to 2012.
* Associate Professor, Department of Computer Science, Faculty of Computing and IT, Makerere University, Aug. 2006 – Nov. 2006
* Senior Lecturer, Department of Computer Science, Faculty of Computing and IT, Makerere University, Jan. 2005 – Aug. 2006
* Senior Lecturer, Institute of Computer Science, Makerere University, Nov. 2001- Dec. 2004
* Lecturer on secondment, Institute of Computer Science, Makerere University, July 2001-Oct. 2001
* Lecturer, Department of Mathematics, Makerere University, 1998 – Oct. 2001
* Research Fellow, Department of Informatics, University of Bergen, 1995-2000
* Teaching Assistant, Department of Informatics, University of Bergen, 1997-2000
* Assistant Lecturer, Institute of Teacher Education Kyambogo, (ITEK), 1995-1996
* Teaching Assistant, Institute of Statistics and Applied Economics, Makerere University, 1994-1998

# Key Milestones

Professor Baryamureeba has been an achiever and record setter as highlighted below:

* In 1996, Baryamureeba finished a two year M.Sc. in Computer Science in a record time of 8 months;
* In 2000, he graduated with a PhD and had the best Ph.D. dissertation in his field that year at the University of Bergen;
* In 2000, Baryamureeba discovered the Barya function;
* In 2000, at the age of 30, he was the youngest Ph.D. holder at Makerere University;
* In 2000, Baryamureeba became the 1st Ugandan to obtain a Ph.D. in Computer Science;
* In 2001, at the age of 31, he was appointed Director of the Institute of Computer Science and became the youngest Director in the history of Makerere University;
* In 2005, at the age of 36 he was appointed Dean of the Faculty of Computing and IT and became the youngest Dean in the history of Makerere University;
* In 2005, he spearheaded the construction of the largest computing building in Africa with 12,500sq metres of space worth over US$ 20 million. On 28th January 2009, H.E. Yoweri Kaguta Museveni, President of the Republic of Uganda, officially opened the building. The Block B building was funded from internally generated funds in the Faculty of Computing and IT and a grant of Euros 527,500 from the Dutch Government. Baryamureeba had previously spearheaded the construction of the Faculty of Computing and IT Block A Building with 2500sq metres of space, which was funded by the Royal Kingdom of Norway and was commissioned on 28th January 2004.
* In 2006, he was appointed a full Professor at the age of 37, making him the first Professor of Computer Science in Uganda and the youngest Professor in sub-Saharan Africa then;
* In 2007, Professor Baryamureeba received the ‘Top ICT Educator/ Academic’ Award in Africa for 2007;
* In 2008, Professor Baryamureeba was appointed Judge, African ICT Achievers Awards 2008;
* In September 2008, Runner-up, Presidential Science Awards, Science and Technology Excellence Award in recognition of his innovative approach to institutional and human capacity development in computer science by the President of the Republic of Uganda.
* In November 2008, Professor Baryamureeba was included in the 2009 Edition of “Who's Who in the World”. Distributed globally, Marquis' Who's Who in the World is relied upon by business leaders, journalists, academics, and other professionals for its accuracy and currency of information.
* In November 2008, Professor Baryamureeba was appointed an honorary member of the International Association of IT Governance Standards (ITGOVS), a member-driven organization that provides a platform to support and promote multi-disciplinary research on IT governance standards.
* In April 2009, Professor Baryamureeba was included in the ‘2000 Outstanding Intellectuals of the 21st Century’ by the International Biographical Centre.
* In May 2009, Professor Baryamureeba was included in the ‘TOP 100 Professionals-2009’ by the International Biographical Centre in recognition of his significant contribution in the area of ICT to engender influence on the local, national and international scene. As a bearer of Top 100 Professionals 2009, he has been recorded in perpetuity in the halls of the International Biographical Centre of Cambridge, England.
* In July 2009, Professor Baryamureeba won the International Educator of the Year 2009 Award from International Biographical Centre of Cambridge, England.
* In August 2009, Professor Baryamureeba won the award of ‘Most Influential ICT Personality in Uganda’ from ICT Creatives Ltd (www.ictcreatives.com).
* On 20th October 2009, Professor Baryamureeba won the 2009 TWAS-ROSSA Prize for Building Scientific Institutions for the African Region. The Academy of Sciences in the Developing World (TWAS) [www.twas.org] is an autonomous international organization, based in Trieste, Italy, that promotes scientific excellence for sustainable development in the South.
* Professor Baryamureeba was appointed 14th Vice-Chancellor of Makerere University on 1st November 2009 at the age of 40 making him then the youngest Vice-Chancellor to ever be appointed to lead a University on the African continent.
* On 14th December 2011, Professor Venansius Baryamureeba won the Award for Outstanding Contribution to Education at the Africa-India Partnership Summit Le Matinal Educational Excellence Awards 2011 held in Mauritius.
* Professor Baryamureeba was awarded the "Amity Global Academic Excellence Award" during the Amity International Business School International Business Summit (INBUSH), 22-24 February 2012 at Amity Campus, Sector - 125, Noida, India.
* Professor Baryamureeba was presented with the Award of Recognition in appreciation of his dedicated service and exemplary contribution to the National Council for Higher Education (NCHE), July 2012. NCHE is the body that regulates higher education in Uganda.
* Golden Jubilee Medal of the Republic of Uganda, 9th October 2013. On 51st Independence Day celebrations that were the climax of the 50 years of Uganda's independence, held on 9th October 2013, Prof. Venansius Baryamureeba was honoured with the Golden Jubilee Medal of the Republic of Uganda. H.E. The President of the Republic of Uganda, General Yoweri Kaguta Museveni, bestowed it on him. The Golden Jubilee Medal is the highest honour bestowed on a non-head of state by the President Republic of Uganda as per Section 5 of the National Honours and Awards Act, 2001. Professor Venansius Baryamureeba was honoured in appreciation of his contribution to Uganda especially in the sectors of education and ICT.
* On Friday 3rd October 2014, The African Society for ICT (ASICT) presented a lifetime achievement award in ICT Research and Education to Professor Venansius Baryamureeba in recognition of his immense contribution to the African continent in the ICT sector in the areas of research and education at a ceremony held in Yaoundé Cameroon.

# Board/Committee Member

1. Chairperson, Appointments Board, Busitema University, 2016-2020;
2. Chairperson, St. Augustine International University Council, 2016-2019;
3. Chairperson, Uganda Vice Chancellors Forum (UVCF), 2014- 2016;
4. Chairperson, Uganda Technical and Business Examinations Board (UBTEB), August 2013 – August 2019;
5. Founding Chairman, Common Market for Eastern and Southern Africa (COMESA) Innovation Council, 2012-2015.
6. Chairperson of Council**,** Makerere University Business School, 2012-2016.
7. Member (November 2009 to September 2012) and Chairperson (November 2009 – June 2010) of the Inter University Council of East Africa (IUCEA).
8. Chairperson, Board of Directors of Uganda Technology And Management University Ltd, 2012- to date.
9. Chairperson, Board of Trustees of Uganda Technology And Management University, 2015-todate.
10. Member, Makerere University Council (December 2006 to August 2012)
11. Member of the following Makerere University Council Committees (December 2009- August 2012): Appointments Board; Finance Planning and Administration; Staff Development, Welfare & Retirement Benefits Committee; and Chairperson, Honorary Awards Committee.
12. Member of the Makerere University Council ICT Committee from 2002 to December 2010) and from November 2009 to December 2010, he was the Chairperson of the ICT Committee of Council.
13. Member of the following Makerere University Council Committees (December 2006-December 2010): Finance, Planning and Development Committee; ICT Committee; Establishment and Administration Committee; and Statutory Committee.
14. Chairperson, Makerere University Senate (November 2009 to August 2012).
15. Member of Senate from July 2001 to August 2012 and in the period July 2001—October 2009, he served on the following Committees: Academic Programmes and Library Committee (2003—October 2009); Senate Science Committee (July 2001- March 2003); Graduate Studies Board (2003—October 2009).
16. Chairperson, Makerere University Management Committee (November 2009 to August 2012).
17. Chairperson of the Faculty of Computing and IT Board (2005—July 2010).
18. Chairperson, Institute of Computer Science Board (July 2001—2005).
19. Member, Board of Trustees of Makerere University Female Scholarship Foundation (FSF) with effect from September 1, 2011 for 3 years.
20. Member, Board of Commercial Units, Makerere University, 2006 to December 2010.
21. Member, Busitema University Senate since 27th November 2007 to 2016.
22. Member, Mbarara University of Science and Technology Senate since 12th June 2009 to 2015.
23. Member, Presidential Investors Round Table on Information and Communication Technology (ICT), 2013. Member of the Presidential Investors Roundtable- Business Process Outsourcing working group (2007 to 2008).
24. Chairperson, organising Committee for one-year celebrations marking 90 years of Makerere University’s existence and commemoration of the 50 years of the Establishment of the University of East Africa. The launch is scheduled to take place on 4th august 2012.
25. Member of the 7th Uganda National Examination’s Board (UNEB), 2010--2013.
26. Member, National Council for Higher Education (NCHE) and Council Committees, November 2009 to July 2012.
27. Ugandan Universities Representative to Governing Board of the African Institute for Capacity Development (AICAD) from September 19th, 2011 for 2 years. AICAD aims at poverty reduction in the African region through human capacity development.
28. Chairperson, Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Board (November 2009 – October 2011).
29. Member of the Plant Resources of East Africa (PROTA) Board of Trustees as a representative of Makerere University on a three-year contract (2011-2013).
30. Chairman of the Board and Director (June 2012 to May 2014), and was Chairman (April 2010 to May 2012) and Director (April 2009 – March 2010) of the Research and Education Network for Uganda (RENU).
31. Team Leader, CEO Club on Vocational Training and Skills Deficit, February 2012 to 2015.
32. Vice-Chairperson of NetTel@Africa Programme Academic Board (January 2007 to December 2011).
33. Chairman of the African Centre for Media Excellence (2010 to date).
34. Executive President, CONNECT Uganda Foundation (May 2003- to date).
35. Patron, Young Entrepreneurs’ Forum (April 2011 to date).
36. Patron, Financial Literacy Foundation (FinLiT)(2010 to date).
37. Member, The State of the Nation Platform, since 2010 to date.
38. Member, National Board of Advisors for the Pan African Movement – Uganda National Chapter, an offshoot of the Global Pan African Movement (GPAM), since June 2009-- 2014
39. Member, Uganda Doing Business Reform Task Force (August 2009 to December 2010).
40. Trustee and Honorary member, Uganda Young Entrepreneurs Association (August 2005-- 2016).
41. Member, The Presidential Investors Roundtable (2004 - 2006), a top-level Business Advisory Council, launched on 30th September 2004 by the President of the Republic of Uganda at Speke Resort Munyonyo, Uganda.
42. Member, Project Steering Committee (January 2007 to December 2010). The Faculty of Development Studies at Mbarara University of Science Technology won a grant from Nuffic for a project entitled ‘Strengthening the Capacity of the Faculty of Development Studies.
43. **Chairman Board of Directors (2008 to 2013),**The **THINK BIG AFRICA FOUNDATION.**
44. Member, Organising Committee for the Grand Alumni of Makerere University Re-Union. Makerere University Convocation organised a Grand Re-Union on 28th November 2009, and H.E. Benjamin Mkapa, former President of the Republic of Tanzania was the Chief Guest.
45. Member, Makerere University Organizing Committee for Stakeholders’ Consultative Conference. The conference took place from 22nd - 23rd January 2009.
46. Member of the Infrastructure Committee of the Commission for Africa Forum (Aug 2005 - 2007).
47. President, Uganda National Academy for Computing and Internet Technologies (UNACIT) (2004 to date).
48. Member, Task Force on E-Transactions and Computer Misuse, Uganda Law Reform Commission (October 2002—November 2003).
49. Member, NORAD Steering Committee, Makerere University (July 2001- 2007).
50. Convener, Internet bandwidth Task Force (May 2007-June 2007), convened a taskforce to review the bandwidth at Makerere University and submitted a report with recommendations to the University Management.
51. Member, Technical Adhoc Council Committee on the Vice-Chancellor and Deputy Vice-Chancellors’ Search (April 2008 - July 2008.
52. Member, Adhoc Committee on Salary Enhancement (2009). This committee was to study and recommend ways of how salaries of staff could be enhanced by proposing alternative sources of income.

# Membership to Professional Bodies

He is a member of the following professional bodies:

* Association of Computing Machinery (ACM), ACM Membership No.: 7250468. barya@acm.org
* Africa ACM SIGCSE Founding Member.
* Kampala ACM Chapter
* Uganda Computer Society
* Uganda National Academy of Computing and Internet Technologies-UNACIT; currently serving as President.
* Honorary member of the International Association of IT Governance Standards.

# Some Flagship Projects/ Research Grants

1. Overall Program Coordinator- February-September 2012. Makerere University Component, National Remote Sensing Facility, from July 2012. The Government of Uganda approved an initial funding to the tune of US$ 30 Million.
2. Overall Project Coordinator, ADB V- Higher Education Science and Technology Project – Makerere University Component, from January 2012 to September 2012. This is a 5-year government initiative spearheaded by the Vice Chancellor and funded through the ADB V loan worth US$30.04 (UA19.4) Million contributed towards improving the infrastructure and research capacity of Makerere University, specifically: Improvement of Infrastructure and Equipment for Science and Technology; Research, Innovation and Linkages with Labour Markets, and Staff Development and Capacity Improvement.
3. Overall Project Coordinator, Strengthening the Capacity of Makerere University to Implement Reforms and manage Organisational Change, a project funded by the International Development Research Centre (IDRC) to a tune of CAD 450,000, from May 2012 to October 2013.
4. Project Leader in Uganda and Overall Project Coordinator, Strengthening ICT Training and Research Capacity in the Public Universities in Uganda, a 4- year project funded by NUFFIC to the tune of 5.7 million euros. The project commenced on 1st June 2007 and ended on 31st May 2011.
5. Project Leader in Uganda and Overall Project Coordinator, Building a Sustainable ICT Training Capacity in the public Universities in Uganda, a 4- year project funded by NUFFIC to the tune of 3.4 million euros. The project commenced on 1st July 2004 and ended on 30th June 2008. The Netherlands Government in survey voted this project as the best ICT project in Africa funded by The Netherlands Government. For details visit: http://www.edusite.nl/edusite/specials/14940
6. Lead Ugandan Consultant, Strengthening the Institutional Capacity of Uganda’s Technical Colleges, a 4- year project funded by NUFFIC grant of 2million Euros and commenced on 1st March 2006 and ended in 2009.
7. Regional Coordinator-Eastern Africa, EuroAfrica-ICT Project, a EU/FP7 project worth 608,099 euros spanning 24 months (January 2010 – December 2011) with the aim of supporting policy dialogues and strengthening cooperation on ICT research between Europe and (sub-Saharan) Africa.
8. Regional Coordinator-Eastern Africa, EuroAfriCa-ICT Project, a EU/FP7 project worth 798,961 euros spanning 24 months (January 2008 – December 2009) with the aim of supporting policy dialogues and strengthening cooperation on ICT research between Europe, Carribean and Africa.
9. Project Coordinator, National ICT Incubation Centre. Makerere University Faculty of Computing and IT was designated a National ICT Incubation Centre worth USD 300,000 with the mandate to undertake software and business incubation among others.
10. Project Coordinator and Manager, National Software Incubation Centre (8 June 2008 to 30th June 2010).Rockefeller Foundation provided a seed grant of US$ 300,000 for the establishment of the software incubation facility at the Faculty of Computing and IT now School of Computing and IT (CIT).
11. Project Manager, Block A Building –Institute of Computer Science Building. In the period 2001 to 2003, as Dean, Professor Baryamureeba spearheaded the construction of an ultra modern computing centre, 2500sq metres of space. The Norwegian government provided the funding to the tune of 13.2Million NOK under the project ‘Strengthening the Institute of Computer Science, Makerere University’. It was officially opened on 28th January 2004.
12. Project Manager, Block B Building –Faculty of Computing and IT. Two years down the road, under his leadership, a contract was awarded to Complant Ltd, a Chinese construction company to put up the largest computing centre in Africa with an approximate area of 12,500sq meters. Construction began in February 2006 and the building was commissioned/opened on 28th January 2009 by H.E. Yoweri K Museveni, The President of the Republic of Uganda. The money for the building was mainly from internally generated in the faculty. Some additional funds were gotten from the Netherlands Government under the Nuffic project, ‘Strengthening ICT Training and Research Capacity in the Public Universities in Uganda’.

The total investment in infrastructure development from both local and development partners (donors) was about Ushs.50 billion (US$ 30 million) for the Institute of Computer Science/ Faculty of Computing and IT alone over the 7-year period (2001-2008).

1. Project Manager for Eastern African Region, Pan African e-Network on Tele Education, an Initiative of the Government of India and African Union (August 2006 to June 2010). Pan-African Network connects 53 Pan-African countries as one network through satellite, fiber optics and wireless links for providing electronic and knowledge connectivity to the African nations based on the connectivity mission with an initial announced budget of US$ 50 million for its installation, initial operation and maintenance for 2 years. The Pan-African network comprises of the heads of State, The Tele-Medicine and the Tele-Education sub networks.
2. Principal Researcher/Primary Investigator and Project Manager, Quality of Service (QoS) in Least Developed Countries (LDCs): A Case Study of Uganda, 2003 - 2004. Cisco Systems University Research Program provided the Research Grant of USD 70,000.
3. Coordinator, Makerere University E-learning Project (July 2001 - December 2004). When Makerere University was faced with the challenge of big numbers of students, the Institute of Computer Science, introduced e-learning at Makerere University under the project ‘Striving for e-learning at Makerere University’ that was funded by Nuffic and its main objective was to develop capacity to integrate computers in the University’s core function of teaching and learning.
4. Project Manager, VarsityNet Project for East Africa Region. Overall, this programme was geared towards enabling African universities and research institutions play a greater role in the information society and become one of its key pillars by offering innovative solutions and applications. The project was funded by United Nations Economic Commission for Africa (UNECA) and coordinated by the Inter-University Council of East Africa (IUCEA).

# Consultancy Projects

Most of the projects I have been involved in a a consultant are available at www.ict.co.ug and in my full CV at www.utamu.ac.ug/barya. Suffice to say I have undertaken several consultancy projects both at national and international levels with great success.

# Research Interests

Computer Science, Information Systems, Optimization, Databases Systems (Object Oriented), Programming Environments, Communication Networks, Mobile Computing, Quality of Service, and ICT for Sustainable Development.

# Research Record

Professor Baryamureeba has undertaken cutting edge research most of which has been published in international journals.

1. He discovered the Barya function, which has become one of the most used functions to solve engineering and economic problems that can be formulated as linear regression problems [BIT Vol. 41, No.5, pp. 847-855, 2001].
2. He also proposed a new strategy for efficiently solving problems that can be formulated as linear programming problems or weighted least squares problems such as engineering problems in VLSI layout optimisation [Numer. Linear Algebra and Appl. Vol. 9, pp. 93-106, 2002] that has been adopted in many commercial and non-commercial solvers.
3. Baryamureeba together with Florence Tushabe proposed the ‘Enhanced Digital Investigation Process Model’ [Asian Journal of Information Technology 5(7): pp. 790-794, 2006] that has been adopted worldwide in forensic investigations.
4. He has undertaken a lot of research and most of the research papers are also available at http://www.ii.uib.no/publikasjoner/texrap/index-eng.shtml, www.cit.mak.ac.ug, www.utamu.ac.ug in addition to the international journals’ websites, Google scholar and hardcopy prints. **Below are some of the publications:**

**Journal Papers:**

1. **Venansius Baryamureeba**, Wilfred Karukuza Nahamya (2014). The Role of TVET in Building Regional Economies, International Journal of Vocational Education and Training Vol. 22 No. 1, pp 7-15. ISSN: 1075-2455.
2. Washington Okori, Joseph Obua, and **Venansius Baryamureeba** (2010). Logit Analysis of Socioeconomic Factors Influencing Famine in Uganda. Journal of Disaster Research, Vol.5, No.2 pp. 208-215, 2010
3. Okori W., Obua J., and **V. Baryamureeba** (2009). Famine Disaster Causes and Management Based on Local Community’s Perception in Northern Uganda, Research Journal of Social Sciences, 4, 21 -32.
4. R. Wesonga, J.P. Jehopio and **V. Baryamureeba** (2008). Stochastic Optimisation Model for Agricultural Production in Africa using Remote Sensing Technology. Makerere University Research Journal (MURJ), Vol. 003(1), pp. 81 – 87.
5. Kitoogo F., **Baryamureeba** V. and G. De Pauw (2008). Towards Domain Independent Named Entity Recognition. International Journal of Computing and ICT Research, Vol.2, No.2, pp. 84-95.
6. Wakabi-Waiswa P., and **V. Baryamureeba** (2008).Extraction of Interesting Association Rules Using Genetic Algorithms, International Journal of Computing and ICT Research, Vol.2, No.1, pp. 26-33.
7. **Baryamureeba V.** and T. Steihaug, (2007). On the Properties of Preconditioners for Robust Linear Regression, International Journal of Computing and ICT Research, Vol.1, No.2, pp. 50-66,
8. Kitoogo F. E. and **V. Baryamureeba** (2007).Meta-Knowledge as an Engine in Classifier Combination, International Journal of Computing and ICT Research, Vol.1, No.2, pp.74-86.
9. **Baryamureeba V.**, (2007). ICT as an Engine for Uganda’s Economic Growth: The Role of and Opportunities for Makerere University, International Journal of Computing and ICT Research, Vol.1, No.1, pp. 47-57.
10. Wanyama T. and **V. Baryamureeba** (2007). The Role of Academia in Fostering Private Sector Competitiveness in ICT Development, International Journal of Computing and ICT Research, Vol.1, No.1, pp. 58-67.
11. Kitoogo F. E.  and **V. Baryamureeba** (2007). A Methodology for Feature Selection in Named Entity Recognition, International Journal of Computing and ICT Research, Vol.1, No.1, pp. 18-26.
12. **Baryamureeba V.** and F. Tushabe, (2006). The Enhanced Digital Investigation Process Model, Asian Journal of Information Technology 5(7): pp. 790-794.
13. Tushabe F. and **V. Baryamureeba,** (2005). Cyber Crime in Uganda: Myth or Reality? Transactions on Engineering, Computing and Technology V8, ISSN 1305-5313.
14. **Baryamureeba V.** and Ngubiri J. (2006). On Improvement of the Volcano Search and Optimization Strategy, J. Dongarra, K. Madsen, and J. Wasniewski (Eds.), Lecture Notes in Computer Science (LNCS), LNCS 3732, pp.839-846.
15. **Baryamureeba V.** and T. Steihaug, (2006). On the Convergence of an Inexact primal Dual Interior point Method for Linear Programming, I. Lirkov, S. Margenov, and J. Wasniewski (Eds.), Lecture Notes in Computer Science (LNCS), LNCS 3743, pp.629-637.
16. Lowu F. and **Baryamureeba V.** (2006). On Efficient Distribution of Data in Multicast Networks: QoS in Scalable Networks, I. Lirkov, S. Margenov, and J. Wasniewski (Eds.), Lecture Notes in Computer Science (LNCS), LNCS 3743,pp. 518—525.
17. Samson Okwakol Ariko and **Venansius Baryamureeba.** (2005). [On Internet Access Technology Specification Model](http://www.waset.org/journals/waset/v8/v8-11.pdf). World Academy of Science, Engineering and Technology, Issue 8, page 61 – 65.
18. **Baryamureeba V**. (2004). Solution of Robust Linear Regression Problems by Krylov Subspace Methods, I. Lirkov et al. (Eds.), Lecture Notes in Computer Science (LNCS), LNCS 2907, pp. 67-75.
19. **Baryamureeba V**, (2002). Solution of Large-Scale Weighted Least Squares

Problems, Numerical Linear Algebra with Applications, Vol. 9, pp. 93—106.

1. **Baryamureeba V**. (2001). The Impact of Equal-Weighting of Both Low-Confidence and High-Confidence Observations on Robust Linear Regression Computation, BIT Numerical Mathematics, Issue 41, No. 5, pp.847—855.
2. **Baryamureeba V.** (2001).On Solving Large-Scale Weighted Least Squares Problems, I. Lirkov, J. Wasniewski and P. Yalamov (Eds.), Lecture Notes in Computer Science (LNCS), LNCS 1988, pp.59-67.
3. **Baryamureeba V**, Steihaug T. and Y. Zhang (1999). Application of a Class of Preconditioners to Large Scale Linear Programming Problems, Lecture Notes in Computer Science (LNCS), LNCS 1685, pp. 1044 -1048.
4. **Baryamureeba V.** and T. Steihaug, (1999). Computational Issues for a New Class of Preconditioners, Michael Griebel, Svetozar Margenov, Plamen Yalamov (Eds.), Large-Scale Scientific Computations of Engineering and Environmental Problems II, In Series Notes on Numerical Fluid Mechanics, Vol. 73, pp. 128--135, Vieweg.
5. **Baryamureeba** V. and T. Steihaug, (1999). On a Class of Preconditioners for Interior Point Methods, Nordic Section of the Mathematical Programming Society, Opuscula 49, ISSN 1400--5468.

**Book Chapters:**

1. 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: INHollanda University of Applied Sciences, Haarlem, the Netherlands: April 28–29, 2009, ISBN: 987-1-906638-30-6CD,*pp.246 – 253.
2. HABINKA A., SOL H.G., AND **BARYAMUREEBA** V., (2009).  “[Approaches towards Effective Knowledge Management for Small and Medium Enterprises in Developing Countries - Uganda](http://www.ist-africa.org/Conference2009/default.asp?page=secure-doc&docid=3351&paperid=842&paper.refno=29&paper.siteid=5&versionid=1905&number=)” *IST-Africa 2009 Conference Proceedings, IIMC International Information Management Corporation, 2009, ISBN: 978-1-905824-11-3.*
3. **Baryamureeba V**. (2008). ICT-enabled Services: A Critical Analysis of the Opportunities and Challenges in Uganda. Special Topics in Computing and ICT Research Vol. 4, Janet Aisbett, Greg Gibbon, Anthony J. Rodrigues, Joseph Kizza Migga, Ravi Nath, Gerald R Renardel (Eds.), Strengthening the Role of ICT in Development. ISBN 978-9970-02-871-2, pp. 215-235.
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6. Lowu F. X. and **V. Baryamureeba** (2008). Delay-Optimized Path in Peer-to-Peer Networks. Special Topics in Computing and ICT Research ISBN 978-9970-02-871-2, Vol. 4, pp. 312-320.
7. Wakabi-Waiswa P. P. and **V. Baryamureeba,** (2007). Extraction of Interesting Association Rules Using Genetic Algorithms, Special Topics in Computing and ICT Research Vol. 3; Joseph Kizza Migga Janet, Aisbett Janet, Katherine Getao, Victor W Mbarika, Dilip Patel, Anthony J. Rodrigues (Eds.), Strengthening the Role of ICT in Development. ISBN 978-9970-02-730-9, pp. 101-110.
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9. Angeyo J. S., **Baryamureeba V.**, and P. Jehopio, (2006). A Dynamic Framework for the Protection of Intellectual Property Rights in the Cyberspace, D. Williams and V. Baryamureeba (Eds.), Special Topics in Computing and ICT Research: Measuring Computing Research Excellence and Vitality, ISBN 13:978-9970-02-592-3; ISBN 10:9970-02-592-9, Vol. 1, pp. 230-247.
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3. Tushabe F. 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.
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7. Muhirwe J. and **V. Baryamureeba,** (2007).Towards Computational Morphological Analysis for Kinyarwanda, the 1st International Conference in Computer Science and Informatics, Nairobi, Kenya’ February 5-7.
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10. **Baryamureeba V.** and T. Steihaug, (2000). Preconditioning for Iterative Methods in Robust Linear Regression.  Presented at the 16th IMACS WORLD CONGRESS 2000 on Scientific Computation, Applied Mathematics and Simulation in Lausanne, Switzerland. Published in the Conference Proceedings August 21-25.
11. **Baryamureeba V.**, (2000). A New Function for Robust Linear Regression: An Iterative Approach. Presented at the 16th IMACS World Congress on Scientific Computation, Applied Mathematics and Simulation in Lausanne, Switzerland.  Published in the Conference Proceedings 21st-25th August 2000.
12. **Baryamureeba V**., (2000) Solution of Robust Linear Regression Problems by Preconditioned Conjugate Gradient Type Methods, Presented at “Sixth copper mountain conference on iterative methods, 3-7 April 2000, University of Colorado, USA". Paper for Hard Copy Proceedings. Technical Report No. 187, Department of Informatics, University of Bergen, 5020 Bergen Norway.

**Reports:**

1. **Baryamureeba V.** (2000). Preconditioners for Sequences of Weighted Linear Systems, Technical Report No. 198, Department of Informatics, University of Bergen, 5020 Bergen, Norway.
2. **Baryamureeba V.** (2000). Basis Based Low-Rank Correction Preconditioners for Sequences of Weighted Least Squares Problems, Technical Report No. 205, ISSN 0333-3590, Department of Informatics, University of Bergen, 5020 Bergen, Norway.
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**Dissertations:**

1. **Venansius Baryamureeba**, On Solving Large Sparse Linear Systems Arising from Linear Programming and Linear Regression. Ph.D. Thesis, Department of Informatics, University of Bergen, 5020 Norway. Copyright © 2000 Department of Informatics, University of Bergen, 5020 Norway
2. **Venansius Baryamureeba**, Primal-Dual Interior-Point Method using an Iterative Solver for the Linear System. M.Sc. Thesis, Department of Informatics, University of Bergen, 5020 Norway. Copyright © 1996 Department of Informatics, University of Bergen, 5020 Norway.

# Graduate Students Supervised to Completion

He has supervised several masters’ students and postgraduate diploma students to completion.

He has supervised several PhD students to completion. Below are some of those he has supervised to completion:

**Masters (Plan A)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S/N** | **REG NO.** | **NAME** | **TOPIC** | **STATUS** |
| 1 | 2002/HD18/1825/U | Tushabe Florence B | Computer Forensics for Cyberspace crimes | Graduated 2005 |
| 2 | 2002/HD18/1924/U | Ariko Okwakol Samson | On Internet Technologies Specification Model | Graduated 2005 |
| 3 | 2002/HD18/420/U | Mwebaze Johnson | On Bandwidth Management | Graduated 2005 |
| 4 | 2002/HD18/423/U | Ngubiri John | On Multi-Query Optimization in Relational Databases | Graduated 2005 |
| 5 | 2002/HD18/214/U | Kakooza Fred Bernard | Adopting the Makerere University Network for IP Video Conferencing | Graduated 2006 |
| 6 | 2002/HD18/149/U | Torach Julius Peter | On Public Key Infrastructure Implementation | Graduated 2006 |
| 7 | 2003/HD18/1381/U | Ogwanga Cypriano | The Impact on Usability of Users’ Involvement in software Development Projects | Graduated 2006 |
| 8 | 2003/HD18/588U | Francis L. Xavior | On Efficient Distribution of Data in Multicast Networks: QoS in Scalable Networks | Graduated 2006 |
| 9 | 2004/HD18/2066/U | Nakibuule Rose | Runtime Independent Deadline Scheduling on a Cluster of Workstations | Graduated 2007 |

**Masters Plan B**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 2001/HD18/1746U | Acuc Emmanuel | On Elliptic Curve Cryptography | Graduated 2004 |
| 2 | 2001/HD18/1764U | Mayanja Richard | On Building a flexible selection system | Graduated 2004 |
| 3 | 2002/HD18/436/U | Nkuyahaga Aggrey | A Case Reasoning Framework for an intelligent Help Desk System: Implementation and Maintenance | Graduated 2005 |
| 4 | 2002/PGD18/258U | Agoa Topista Amuge | Floppy Based Linux Operating System for Computers with minimal Resources | Graduated 2006 |
| 5 | 2001/HD18/1763/U | Komakech Gabriel | E-mail Supported, Agent- Based Portal for Automobile Sales | Graduated 2006 |
| 6 | 2003/HD1363/U | Kahiigi Kigozi Evelyn | A centralized identity Management System To Support Usage Of Shared Network Services | Graduated 2006 |
| 7 | 2003/HD18/1408/U | Waibale C S Simon | Monitoring Computer Resources of Small-Medium Enterprises: The case of ERP adoption in Least Developed Countries | Graduated 2006 |
| 8 | 2003/HD18/1371/U | Ssebadduka Mary | Risk Perception in Information Systems Projects | Graduated 2006 |
| 9 | 2003/HD18/1425/U | Kahiigi Byamukama P | A Planning Tool for the Electricity Transmission Planning process | Graduated 2007 |
| 10 | 2004/HD18/1588/U | Nambaziira Stella Maris | An Online Tool for Monitoring and Tracking Vaccine and Vaccine Logistics Utilization at District Level | Graduated 2006 |
| 11 | 2004/HD18/1624/U | Mugabe Samuel | An Integrated Customer Relationship Management System for Mobile Telecom Operators | Graduated 2007 |
| 12 | 2004/HD18/1576/U | Kyewalabye James Charles | Enhancing Property Rates Management Using N-Tier Architecture: A Case Study of Kampala City Council | Graduated 2008 |
| 13 | 2004/HD18/1575/U | Kyanda Swaib B | A Web Based Voter Registration Tool | Graduated 2009 |
| 14 | 2005/HD18/3615U | Malika Michael Balayo Ngati | Analysis of Wireless Local Area Network (WLAN) Security | Graduated 2008 |
| 15 | 2005/HD18/4053U | Ssewankambo Damian | A Simulation Model of Loan Servicing for Savings and Credit Cooperative Organisations (SACCOs) under the Poverty Alleviation Program | Graduated 2008 |
| 16 | 2005/HD18/0022U | Komunte Mary | A Trust Model for Building Confidence in Business-to Consumer Electronic Commerce Transactions | Graduated 2007 |

**PhD**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S/No** | **REG NO.** | **NAME** | **TOPIC** | **STATUS** |
| 1 | 2005/HD18/4231U | Kitoogo Fredrick Edward | Improved Use of Machine Learning Techniques in Named Entity Recognition | Graduated 2010 |
| 2 | 2003/HD15/2461U | Wesonga Ronald | Stochastic Optimisation Models for Air Traffic Flow Management | Graduated 2011 |
| 3 | 2005/HD18/4235U | Wakabi Waiswa Peter Patrick | Association Rule Mining Using Evolutionary Computing | Graduated 2013. |
| 4 | 2005/HD18/4233U | Okori Washington | Computational Model for Prediction of Agricultural Drought Disaster | Graduated 2013. |

# Referees

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* Mr. Mbire, Chairman MTN –Uganda, Charles@mbire.com

**Give me where to stand, and I will move the earth. Archimedes (287-212 B.C).**

**END.**