

Hilda Vasanthakaalam

PhD (Food Science & Nutrition) Cochran Fellow, USDA, USA

BP: 6984, Kigali, Rwanda | +250-788530367 | hildajeya@hotmail.com ; skype: vasantha.jeyakumar

Objective

To use my skills and abilities to improve the lives of people through good nutrition

EDUCATION & SKILLS

Education

DEGREE | DATE EARNED | SCHOOL

- **Major: PhD (Food Science & Nutrition) – Specialization - Microbiological Food Safety** 1996;
Tamil Nadu Agricultural University; GPA – 9.53/10
- **Thesis** “Studies on the food handling practices and microbiological safety of street foods in Madurai city.”
- Minor: Food Product Development & Analysis (Chemical, Microbiological & Sensory)
- Topical Researches:
 - i) Studies on the nutritional qualities of selected cooked green leafy vegetables
 - ii) Studies on the development of *Amla (Emblicus officinalis)* RTS, squashes and their blends with lemon and pineapple.
- Related coursework: Community Nutrition

DEGREE | DATE EARNED | SCHOOL

- **Major: MSc FSM&D (Food Service Management & Dietetics)– Specialization-Human Nutrition**
Bharathiar University 77%
- Thesis: “Nutritional Assessment of patients undergoing Hemodialysis”
- Minor: Food Technology
- Related coursework: Professional Internship: Dietary department at CMC Hospital & Catering Industry

DEGREE | DATE EARNED | SCHOOL

- **Major: BSc NFSM&D (Nutrition, Food Service Management & Dietetics) – Bharathiar University 76%**
- Minor: Food Technology
- Related coursework: Applied Nutrition & Rural and extension education

Educational Collaboration & Engagement / Membership

ROLE | TYPE OF PROFESSIONAL BODY

- Member: Nutrition Society of Rwanda (NSR) 2019 onwards
- Member: Nutrition Technical Working Group (NTWG), Min of Health, Govt of Rwanda 2010 onwards

- Member, Early Childhood Development (ECD), Sub-committee 2018 onwards
- Member: Rwanda Food Scientist and Technologist Association 2010 onwards
- Chairperson; Technical Committee (TC) - 003 – Cereals and Pulses, Rwanda Standards Board Dec 2004 onwards
- Member, TC- 006, TC- 012 Rwanda Standards Board Dec 2018 onwards
- Life member; Indian Dietetic Association 1990 onwards

Trainings (national & international)

PROGRAM | DATE EARNED | ORGANIZATION

- DACUM TRAINING, RMI, Muhanga, 13th – 17th May 2019
- Leadership training in Universities, AAU, 22nd -26th April 2019
- PhD Supervision Pedagogic training 21-23 Nov 2018
- Moodle e-learning platform Training, ODEL, UR_CE 5th-7th November 2018
- Intellectual Property Management in African Universities; 19, 20 & 23 Oct 2018; WIPO, Kenya
- Postharvest Technology (horticulture e-learning training); 2016- 2017; Postharvest Education Foundation, USA
- Teaching Learning workshop; 17th to 19th December 2014; organized by UR and SIDA
- Training of inspectors for food fortification; 2nd, 3rd and 6th May 2013; organized By Project Healthy Children [PHC] & Nutrition Desk (MoH)
- Use of soy in meat processing and bakery, June 3rd to 12th 2010, NSRL, Illinois, USA
- Estimating Post Harvest Loss of Horticulture Products; ISAR, WFLO, B&M Gates foundation, UC Davis University. June 2009
- Performance Appraisal Workshop - organized by Public Sector Capacity Building (PSCB), GoR; 16th to 18th January 2013
- Leadership training for Staff – organized by KIST; 29th and 30th November 2012 and November 2009
- Advance Leadership course for Women in Agriculture; Organized by AWARD / CIGAR, Ghana November 2010
- Pedagogic Training: Global NutriTion Program (SLU, Sweden) – blended learning 2004, Teaching Learning Workshop,
- KIST 2009, e-learning – KIST
- Hermetical storage of grains in Rwanda – 10 days short term course from 26th August to 4th September 2002, organized by MINAGRI, Govt of Rwanda and Israeli experts.
- Tourism Education; WTO's International Training of Trainer; 1st - 30th June 1989

Consultancy Services

TYPE OF CONSULTANCY | DATE / AGENCY | DURATION

- Nutrition Sensitive Agriculture (NSA) Mainstreaming guideline; a short-term consultancy to draft and finalize based on comments from relevant stakeholders – Min of Agri / JICA; November – December 2019
- Mapping and needs assessment for business incubators /accelerators in Rwanda- Min of Youth / UNDP; short-term consultancy ; November – December 2019
- Development of RTUF food for malnourished children – November 2018 to present
- Assessment of skills in Food Processing Industries in Rwanda – February 2018 to May 2018; Priority Skills Growth, World Bank, MINEDUC;
- SME's (Food Processing Industries) and their Challenges, KPMG 2011 – 6 months
- Training of Horticultural Farmers 2010 through RHODA – 1 month

- External Expert Review of BSc (Nutrition) Curriculum May 2009 HEC
- Training of Horticultural Farmers 2008 through RHODA – 1 month
- Rapid survey on determination of Obesity in the Kigali Population April 2005 – 2 days through AARS – Health Insurance company

Special Assignment

ASSIGNMENT | ASSIGNED BY | YEAR

- Experimentation on the adaptation of Bambara nut cultivation, estimation of nutritional value and scaling up; Assigned by: Deputy Vice Chancellor – Academic Affairs & Research, University of Rwanda; January 2019 [In Progress]
- Project Lead – World Bank Priority Skills Growth in Rwanda – Agro-Processing UR-MINEDUC; June 2017 – 2019 [World Bank approved 13/05/2019 - In Progress]; Phase II approved.
- Establishment of Centre for Food & Nutrition Security; Assigned by: Vice Chancellor, University of Rwanda; October 2018 [In Progress]

TEACHING ASSIGNMENT

Teaching Assignment

TEACHING | PROGRAM | YEAR

- **MSc Agribusiness Program** - Global Food system Analysis – January 2020 onwards
- **MSc Public Health** – Food safety – since 2016
- **BSc – Food Science & Technology Program since 2000:**
- Principles of Food Science & Technology
- Food Processing Preservation & Packaging
- Food Microbiology
- Cereal Science & Technology
- Principles of Nutrition & Dietetics Management
- Community Nutrition
- Food Safety & Hygiene

Teaching experience

JOB TITLE: ASSOCIATE PROFESSOR | ORGANIZATION: UNIVERSITY OF RWANDA [UR] | DATES FROM JAN 2020

- Administration, Teaching, Research and Outreach

JOB TITLE: SENIOR LECTURER | ORGANIZATION: UNIVERSITY OF RWANDA [UR] | DATES FROM JAN 2005

- Administration, Teaching, Research and Outreach

JOB TITLE: LECTURER & SENIOR LECTURER | ORGANIZATION: ISSR | DATES FROM 1985 TO 1999

- Administration, Teaching, Research and Outreach

RESEARCH & PUBLICATIONS

Research Grant Record

Orchid ID: 0000-0003-3648-6105

LOCAL ORGANISING COMMITTEE:

Sweet potato Conference – April 2019 – held in August 2019

Federation of African Nutrition Societies. 4th FANUS Conference Kigali, held in August 2019

UR_CAVM Conference Scientific Committee – June 2016

Product / Process Development

FOOD PRODUCT | YEAR

- Finger-millet based products - Granola bar; composite weaning mix with orange flesh sweet potato
- Bean based soup flour
- Cold extruded bean snack
- Puffed soy snack
- Grain based infant formula
- Banana stem isotonic juice

LEADING RESEARCH TEAMS

Current:

CoPI – with Partners in Health (USA based NGO from Boston) on the development of RUTF (Ready to Use Therapeutic Foods) for malnourished children under 5 years. USAID funded research.

August 2018 - 2021

PI – Hort Innovation lab project (USAID) in 2016 – June 2019

Team Leader – Research cluster – Potato research (NICHE RWA 185) 2014 – June 2019

PI – Finger Millet (UR_Sida) 2014 - 2019

Accomplished:

PI - Beans (Harvest Plus) 2010 to 2013

PI - CRSP Bean project (USAID) in 2008 – 2012

Research Cluster Team Leader – Jan 2017 to 2019 – Potato Research Nuffic funded

PART OF RESEARCH TEAMS

- RAB – banana and orange flesh sweet potato 2005 -2010
- Internal publication team member.
- Externally Reviewed journal articles: International Journal of Cereal Science and Technology USA, International Journal of Horticulture, USA and KHI Journal; African Journal of Food Agriculture & Nutrition
- Reviewer: African Journal of Food Agriculture & Nutrition (AJFAND)
- Reviewer: Rwanda Journal series E: Agricultural Sciences (RJSEAS) - AJOL
- Patron: Innovative Farming [a newly upcoming Indian Journal; E-ISSN: 2455-6521]
- Member: KIST Journal committee

RESEARCH SUPERVISION

- PhD Program Current : 3
- PhD Supervision Accomplished: 2

- PhD External Examiner: 4
- MSc Program: supervised: 25; current: 6

RESEARCH PUBLICATIONS

International Expert Group on Home Gardens for Recovery & Resilience – Presentation of research paper on "Knowledge, Attitudes, and Practices among residents of Kabarore (Rwanda) regarding kitchen gardens in the reduction of malnutrition" was accepted to the upcoming HG4RR Network Workshop, April 27-28, in Berlin

1. Marie Rose Kambabazi, Emmanuel Hitayezu, Yvonne Mukandahiro, **Hilda Vasanthakaalam** Assessment of microbiological changes during production of malted and fermented finger millet flour Vol1: Issue: 1 Pg: 31-35 <https://www.ajol.info/index.php/rjeas/article/view/193254>
2. **Hilda Vasanthakaalam**, Aurelia Karayire , Valens Habimana and Choi Nam Hee **Nutrient availability in biologically activated fresh and aged finger millet** *Cereal Technology* 04/2019 DOI 10.23789/1869-2303-2019-4-244
https://abonet.baeckerwelt.de/index.php?uid_issue=1325&uid_title=7&year=2019
3. Vedaste Ndungutse, Peninah Muthoni Njiraine Ngoda, **Hilda Vasanthakaalam**, Eduard Kokan Shakala, Abdul Kipruto Faraj **Nutritional Quality of Selected Potato (*Solanum tuberosum* L.) Cultivars grown in Rwanda** *Annals. Food Science and Technology* Volume 20, Issue 3, 2019; 614 – 622
http://www.afst.valahia.ro/images/documente/2019/issue3/IV.8_Vedaste.pdf
4. Vedaste Ndungutse, Peninah Muthoni Njiraine Ngoda, **Hilda Vasanthakaalam**, Eduard Kokan Shakala, Abdul Kipruto Faraj **Processing quality of selected potato (*Solanum tuberosum* L.) Cultivars grown in Rwanda** *Potato J* (2019) 46 (1): 48-55
5. Vedaste Ndungutse, Peninah Muthoni Njiraine Ngoda, **Hilda Vasanthakaalam**, Eduard Kokan Shakala, Abdul Kipruto Faraj **Morphological and phytochemical composition of selected potato (*Solanum tuberosum* L.) Cultivars grown in Rwanda** *Annals. Food Science and Technology* Volume 20, Issue 1, 2019; 393 – 401
http://www.afst.valahia.ro/images/documente/2019/issue2/V.2_Ndungutse.pdf
6. **Hilda Vasanthakaalam**, Jocelyne Muhimpundu, Aurelia Karayire and Matsiko Fabien **Stability of vitamin C and β -carotene during processing of papaya guava fruit leather** *Carp Jrl of Fd Sc & Tech* Dec Vol 10(4) 2018 [http://chimie-biologie.ubm.ro/carpathian_journal/Vol_10\(4\)_2018.pdf](http://chimie-biologie.ubm.ro/carpathian_journal/Vol_10(4)_2018.pdf)
7. Musabyimana, I., Ranganathan, Sankaranarayanan, & **Vasanthakaalam, H.** (2018). **Success story of implementing the self-sustaining agricultural extension system in Rwanda.** *Journal of Agricultural Extension and Rural Development*, 10(9), 175-185 <https://doi.org/10.5897/JAERD2018.0981>
8. Ongol M. P, Owino J, Lung'aho M, Dusingizimana T, **Vasanthakaalam H.** **Micro-Mineral Retention and Anti-Nutritional Compounds Degradation During Bean Cooking Process.** *Curr Res Nutr Food Sci* 2018;6(2). <http://www.foodandnutritionjournal.org/?p=6039>
9. Chinenye Mercy Nwankwo, Simon Karanja, Hilda Vasanthakaalam(2018) **The occurrence of occupational health hazards in districts health facilities in Kigali, Rwanda** *International Journal of Community Medicine and Public Health* Jan;5(1):21-29 DOI: <http://dx.doi.org/10.18203/2394-6040.ijcmph20175509>
10. Chinenye Mercy Nwankwo, Simon Karanja, Hilda Vasanthakaalam(2017) **The Assessment of the Compliance to Occupational Health and Safety Measures among the Health Workers in Three Selected Districts Health Facilities in Kigali, Rwanda** *Journal of Biomedical Science and Applications* 2017 Vol. 1 No. 2:8.

11. Matsiko Fabien, Kanyange Celine, Ingabire Gael, Dusingizimana Theogene, Vasanthakaalam Hilda and Kimonyo Anastase (February 2017) **Detection and quantification of aflatoxin in cassava and maize flour sold in Kigali open markets, Rwanda** *International Food Research Journal* 24(1): 459-464
12. F. Matsiko, E. Murindwa, C. Niyigena, B. Hitimana, Hilda Vasanthakaalam (2014) **Comparison and evaluation of the quality and storage stability of soy and peanut butter**, *Pakistan Journal of Food Science*, November 2014 Pages:50 - 56 ISSN (Print) 2226 - 5899
13. Martin Ongol Patrick, E. Niyonzima, Gisanura Innocent and Hilda Vasanthakaalam (2014) **Effect of germination and fermentation on the nutrients in maize flour**, *Pakistan Journal of Food Science*, November 2013 Pages:183-188 ISSN (Print) 1605-2552
14. Rufus Jeyakumar and Hilda Vasanthakaalam (2014) **Sectoral contribution towards the economic growth of Rwanda**, *ULK scientific Journal*, Vol 31, Pg 7 to 20 ISSN 2308-5843
15. Hilda Vasanthakaalam and Theogene Dusingizimana **Processing, development and consumer acceptability of puffed soy ball** *KIST Journal of Science and Technology* 1 (1) pp. 7-13 © 2011
16. Ingabire Marie Rose and Hilda Vasanthakaalam **Comparison of the Nutrient composition of four sweet potato varieties cultivated in Rwanda** *American Journal of Food and Nutrition* ISSN: 2157-0167 (Print), 2157-1317 (Online) Volume 1 Issue 1, January 2011
17. **H. Vasanthakaalam** and A Karayire 2011. **Adding value to snap beans** in Katafire M, Ugen M and Mcharo M, eds. 2011. Snap beans commodity value chain. Proceedings of the Regional Stakeholders' Workshop, 9–10 December 2009, Imperial Resort Beach Hotel, Entebbe, Uganda. ASARECA (Association for Strengthening Agricultural Research in Eastern and Central Africa), Entebbe. <https://cgspace.cgiar.org/handle/10568/93198> or <https://hdl.handle.net/10568/93198>
18. HACINEZA Emmanuel, **H. Vasanthakaalam**, Jean NDIRIGWE, and Christine MUKWANTALI A comparative study on the β -carotene content and its retention in yellow and orange fleshed sweet potato flours https://www.asareca.org/sites/default/files/publications/Full%20Paper_0.pdf
19. **Hilda Vasanthakaalam** 1992 Environmental concern for tourism planning in India. *Indian Journal of Tourism Management* Vol 1No1; Jan- March pp 1-9 <http://doi.org/10.1177/004728759203100269>
20. **Hilda Vasanthakaalam** 1992 Destination development in North Arcot District. *Indian Journal of Tourism Management* Vol 1No1; Jan- March pp 1-9 <http://doi.org/10.1177/004728759203100269>
21. **Hilda Vasanthakaalam**, *Environmental Pollution and Tourism*, Edited by: B. D. Sharma, Vedam Book Publishers, Anmol, New Delhi, ISBN 81-261-1319-7 1st edition 1997 2nd edition 2002

RESEARCH REPORT PUBLICATIONS

POSTHARVEST LOSS ASSESSMENT OF GREEN CHILIES IN RWANDA APRIL 30, 2018

CONTRIBUTORS Commodity Systems Assessment – Christine Mukantwali, Eric Kabayiza, Hala Chahine-Tsouvalakis, Hilda Vasanthakaalam, Lisa Kitinoja and Lizanne Wheeler Value Chain

Analysis – Christine Mukantwali, Eric Kabayiza, Gurbinder Singh Gill, **Hilda Vasanthakaalam** and Sally Christie Lifecycle Assessment - Jesse Sky Daystar and Gurbinder Singh Gill

https://horticulture.ucdavis.edu/sites/g/files/dgvnsk1816/files/extension_material_files/Postharvest%20Loss%20Assessment%20of%20Green%20Chilies%20in%20Rwanda.pdf

POSTHARVEST LOSS ASSESSMENT OF GREEN BANANAS IN RWANDA APRIL 20, 2018
CONTRIBUTORS Commodity Systems Assessment – Bernard Rwubatse, Lisa Kitinoja, Christine Mukantwali, Eric Kabayiza, Hala Chahine-Tsouvalaki, **Hilda Vasanthakaalam** and Lizanne Wheeler Value Chain Analysis – Sally Christie, Angelique Kangondo, Pascal Dukuzumuhoza, Christine Mukantwali, Eric Kabayiza, Gurbinder Singh Gill and Hilda Vasanthakaalam Life Cycle Assessment - Jesse Sky Daystar
https://horticulture.ucdavis.edu/sites/g/files/dgvnsk1816/files/extension_material_files/Postharvest%20Loss%20Assessment%20of%20Green%20Bananas%20in%20Rwanda.pdf

POSTHARVEST LOSS ASSESSMENT OF TOMATOES IN RWANDA APRIL 20, 2018 Commodity Systems Assessment – Christine Mukantwali, Eric Kabayiza, Hala Chahine-Tsouvalakis, **Hilda Vasanthakaalam**, Lisa Kitinoja and Lizanne Wheeler Value Chain Analysis – Christine Mukantwali, Eric Kabayiza, Gurbinder Singh Gill, Hilda Vasanthakaalam and Sally Christie Lifecycle Assessment - Jesse Sky Daystar and Gurbinder Singh Gill
https://horticulture.ucdavis.edu/sites/g/files/dgvnsk1816/files/extension_material_files/Postharvest%20Loss%20Assessment%20of%20Tomatoes%20in%20Rwanda.pdf

Enhancing Nutritional Value and Marketability of Beans through Research and Strengthening Key Value Chain Stakeholders in Uganda and Rwanda
<https://www.canr.msu.edu/legumelab/uploads/files/ISU-1%20Tech%20Prog%20Rpt%20FY10%20Final.pdf>

POSTERS / ABSTRACTS

1. Nkusi. E, Biziyaremye J, Vasanthakaalam H, Karyire A., **Effect of Nixtamalization on selected chemical and functional properties of maize grain**, Pg 187; 1st Biennial conference on Agricultural Research and extension, August 21-23, 2013 Kigali Serena Hotel. Book of Abstracts.
2. Twiragiye T, Ntrandekura E, Habimana V, Vasanthakaalam H, **Changes in technological properties in aged and fresh finger millet (*Eleusine corocona*) upon malting**, Pg 188; 1st Biennial conference on Agricultural Research and extension, August 21-23, 2013 Kigali Serena Hotel. Book of Abstracts.
3. Vasanthakaalam H, Butare . L, Mushabe. W, Ndahabwa M, Karyire A. Nyagahungu Innocent, **Evaluation of Culinary properties of newly released common bean varieties in Rwanda**, Pg 189; 1st Biennial conference on Agricultural Research and extension, August 21-23, 2013 Kigali Serena Hotel. Book of Abstracts.
4. Hategekimana J. D, Niyibizi E, Owino J, Vasanthakaalam H, **Effect of packaging and storage conditions on β carotene from organge flesh sweet potato (*cacaerpedo*) puree**, Pg 191; 1st Biennial conference on Agricultural Research and extension, August 21-23, 2013 Kigali Serena Hotel. Book of Abstracts.
5. **Vasanthakaalam H, A. Karayire, I. Nyagahungu, M G Nkundabombi, W Karuranga, P Habinshuti, A Bagirishya**, Enhanced diet utilization of bean, an indigenous staple, to develop nutrient dense foods **Presented at the International** Dissemination Workshop, Uganda, July 2012
6. Habnshuti P , Bagirishya A , **Vasanthakaalam H A. Karayire, I. Nyagahungu, R. Mazur, D. Nakimbugwe Development Of Nutrient Dense Bean Based Composite Flour For Soup Presented at the International** conference on Global CRSP PI meeting (Pg 32), Kigali, February 2012
7. Mulinda N. V, I. Nyagahungu, **Vasanthakaalam H A. Sinha , R. Jeyakumar, Uwamariya D, R. Mazur Effect Of Thermal Processing On Functional Properties Of Bean Flour Presented at the International** conference on Global CRSP PI meeting (Pg 32), February 2012
8. **Hilda Vasanthakaalam, Kimonyo Anastase and U. Y. Didier “Processing of Soy Yogurt From Peka – 6 Soybean Cultivated In Rwanda”** International Conference on Post-Harvest Technology

and Value Addition in Cereals, Pulses and Oilseeds (ICPHT-2006). 27th - 30th November 2006, Kanpur, India

9. **Hilda Vasanthakaalam and Uwimbabazi Assinath “Extraction and Nutritional Profile of Groundnut Milk”** International Conference on Post-Harvest Technology and Value Addition in Cereals, Pulses and Oilseeds (ICPHT-2006). 27th - 30th November 2006, Kanpur, India.
 10. **H. Vasanthakaalam**, A. Kimonyo, E. Kayitesi, **Dietary habits and physical activities of the obese children in different Schools in Kigali city**, Pg 85. 10th Karlsruhe Nutrition Congress “Health Aspects of Vegetables & Fruits” 15th - 17th October 2006, Germany.
 11. **H. Vasanthakaalam**, A. Kimonyo, J. Kayirangwa, R. Tumusime **Food habits of the elderly people in Gasabo district, Kigali** Pg 86. 10th Karlsruhe Nutrition Congress “Health Aspects of Vegetables & Fruits” 15th - 17th October 2006, Germany
-

ADMINISTRATIVE & LEADERSHIP PORTFOLIO

Administrative experience

JOB TITLE: AG. DEAN | ORGANIZATION: SCHOOL OF AGRICULTURE & FOOD SCIENCES, CAVM, UNIVERSITY OF RWANDA [UR] | DATES; MAY 2018 TO CURRENT

- Department of Crop Science – BSc ; MSc
- Department of Soil Science - BSc ; MSc; PhD
- Department of Rural Development & Agricultural Economics – BSc ; MSc
- Department of Food Science & Technology - BSc

JOB TITLE: DEAN | ORGANIZATION: SCHOOL OF FOOD SCIENCE & TECHNOLOGY, CAVM, UNIVERSITY OF RWANDA [UR] | DATES; 2014 TO 2017

- Department of Food Technology
- Department of Food Chemistry & Nutrition
- Department of Food Biotechnology

JOB TITLE: HEAD OF DEPARTMENT | ORGANIZATION: CAVM, UNIVERSITY OF RWANDA [UR] | DATES; 2008 TO 2014

- Department of Food Science & Technology
- Total Number of Student's in the Dept - 301
- Total Academic staff: 18
- Total Administrative staff (Admin Asst & Lab staff): 5

Technical skills & abilities

MANAGEMENT

- Planning for academic & fiscal year, directing and organization of time tabling, teaching, learning, research and outreach activities through staff to cater for the entire development of students enrolled in the program within the available resources (materially & financially).

VISIONARY

- Inherent and experience of Leadership at School / College of the students' council & professionally has enabled me to envision the future while leading.

EDUCATION SECTOR OF RWANDA

- Constant updating of knowledge and information about current trends in education sector not only in Rwanda but also regionally and globally. Participated in the World Bank Proposal writing on skill enhancement.

COMMUNICATION

- Excellent communication skill in English.

LEADERSHIP

- Ethical leader
- Leadership has been ingrained into my system from school and time has proved it over the years.
- School Pupil Leader [bagged the best School Pupil shield]
- Class Representative – BSc & MSc
- College Students' Union Leader [bagged the BEST ALL ROUND STUDENT GOLD MEDAL award]

Educational Leadership

DEVELOPMENT OF SFST – NATIONALLY & INTERNATIONALLY

- MoU – internationally forged with
 - World Food Preservation Centre, USA
 - Gangneung - Wonju National University, Korea
 - Worked with research institutions of Ministry of HRD and Food Processing , India (needed finance for CAVM team to travel)
- MoU – nationally forged which is currently active in the school
 - RAB
 - NIRDA

PERFORMANCE IMPROVEMENT

- **Self:** mentoring from supervisor & self-reflective; Leadership training; Interaction with colleagues and Senior Management
- **Staff:** personnel advisory & continuous monitoring for better output of activities
- **Students:** Structured mentoring

SCHOOL BUDGET

- Financial estimations for the running of activities for each fiscal year.
 - Stationery
 - Equipment's – maintenance and running cost
 - Equipment's – purchase & maintenance
 - Laboratory Consumables
 - ICT requirements – wifi, software update / ICT equipment maintenance etc.,
 - Annual activities – viz., orientation day, career day, Agri show, field visit, internship supervision Research day, etc.,

CURRICULUM DEVELOPMENT & PLANNING

- Developed 3 BSc curriculums for the 3 departments; conducted external stakeholder's workshop and submitted edited curriculum to College DQTLE (October 2015)
- Established the School Post Graduate Committee and prepared the curriculum for MSc & PhD program; submitted concept note to UR Sweden sub-program for workshop request.

Educational Planning and Quality Assurance

STAFF ASSIGNMENTS

- Academic assignments for each staff in School activities was planned, discussed and established

EDUCATIONAL TECHNOLOGY – E - LEARNING

- Training to equip staff in anti-plagiarism software, e-learning etc., was provided

LEADING SCHOOL'S QA

- Identification of External Examiner
- Appointment & guidance of Coordinator of Teaching Learning Enhancement (TLE)
- Establishment of the Internal Moderation team
- Appointment of the PG committee at the SFST
- Setting up of Quality exam questions – application oriented
- Provision of document “Guidelines to mark an answer paper”

STRIVING FOR ACADEMIC EXCELLENCE OF STAFF

- Allocation and assigning of responsibilities that trains and equips them for future managerial positions
- Internal Groups - Working together as team in research publication
- Provision of opportunities to contribute their mite in forums nationally / internationally

PROMOTING STAFF DEVELOPMENT & RECOGNITION

- Issue of letter of appreciation
- Appreciation during School council
- Issue of request for explanation letter

ATTRACTING EXTERNAL FUNDING FOR RESEARCH

Creditable achievements:

AS DEAN (AUGUST 2014 – OCTOBER 2017), SFST, CAVM, UR

- Equipping laboratory – liaised for KOICA funding – obtained moisture meter, electron microscope, laboratory miller 2016 - 2017
- Team Leader - Participant in the writing of concept note for MINEDUC on the Skill development for the manufacturing of value added agricultural products – May 2017
- Submission of Concept note for the establishment of new School building to the tune of \$500,000/- submitted for Kuwait Fund at UR July 2016.
- Submission of concept note for the establishment for the Institute for Food Health and Nutrition Security to UR March 2016, UR, Rwanda
- Author & Team Leader: Working on Post Graduate and PhD program since October 2015 - ongoing process
- Author & Team Leader: Submission of 3 Undergraduate Programs - Food Technology, Food Safety & Quality Management and Food and Nutrition. October 2015 - awaiting approval from formal organs, CAVM, UR
- Took over the finalization of the construction of the Milk Pilot Plant funded by NUFFIC from January 2014 and brought to commissioning in April 2016, CAVM, UR.
- Activated the functioning of the Bread processing firm August 2016

AS HOD (APRIL 2008 TO JULY 2014), FST, CST, UR

- Submission of concept for the Establishment of the School of Food Science and Technology November 2013 and approved in February 2014, UR, Rwanda
- Forged the establishment of the Meat Processing Pilot Plant from 2008 & Commissioning of it from UNIDO in October 2010, KIST Rwanda
- Forged the establishment of the Fruit Processing Pilot plant with limited funding at KIST Rwanda 2001 to 2009
- Pioneer member in the development of the Department of Food Science and Technology February 2000, KIST, Rwanda

AS COORDINATOR (AUGUST 1989 TO DECEMBER 1999), ISSR, INDIA

- Pioneer in the establishment of the School of Tourism and Hospitality Management, ISSR, India and the 1st School in South India.

INDUSTRY LINKS & COLLABORATION WITH REGULATORY BODIES

Industry Links:

MINIMEX – Storage stability of fortified maize meal flour November 2019 onwards

SORWATOM – Partial substitution of tomato with starch in the processing of tomato ketchup 2014 - 2016

Farm Fresh – assisted them in the packaging of stand up pack beans in tomato sauce 2016 – 2017

RWANDA STANDARDS BOARD:

Chair – TC-03 – Cereals & Pulses

Member – TC-012 – Sugar & Sugar Products

Member – TC-001 – Non-Alcoholic Beverages

Links with graduates & their employers

- Excellent links with former students and their staff from institutions such as the following but not limited to:
 - MINIMEX
 - INYANGE
 - RAB / NAEB / MINAGRI
 - RSB
 - BIOHUB
 - SORWATOM
 - TEA PROCESSING PLANTS
 - COFFEE WASHING STATIONS
 - Africa Improved Foods
 - CHAI
 - ICP – International Potato Centre