


## CURRICULUM VITAE

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### PERSONAL INFORMATION

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Name	Dr. Erick Kiplangat Ronoh	
Date of Birth	20 <sup>th</sup> June 1982	
Place of Birth	Sotik, Kenya	
Gender	Male	
Marital Status	Married, 1 child	
Religion	Christianity (Catholic)	
Cell Phone	+254720352626	
Nationality	Kenyan (ID Number: 22377581)	
Passport	Clean and valid (A197420)	
Email Address	ronoh@jkuat.ac.ke; eriqueron2002@yahoo.com	
Contact Address	Agricultural and Biosystems Engineering Department, Jomo Kenyatta University of Agriculture and Technology (JKUAT), P.O. Box 62000 - 00200, Nairobi, Kenya	
Home Address	P.O. Box 236 - 20406, Sotik, Kenya	

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### CAREER VISION

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To be a reliable, dependable and result oriented professional by advancing knowledge in the field of agricultural engineering aimed at mitigating food insecurity, alleviating poverty and enhancing management of available resources.

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### EDUCATION BACKGROUND

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#### University Education

04/2012 – 06/2016	Gottfried Wilhelm Leibniz Universität Hannover, Hannover, Germany Doctor of Philosophy (PhD) in Horticultural Sciences (Dr. rer. hort.) <i>Thesis: Modelling of thermal radiation exchange at glass-covered greenhouse surfaces under different climatic conditions</i>
09/2007 – 05/2010	Jomo Kenyatta University of Agriculture and Technology, Juja, Kenya Master of Science (MSc) in Agricultural Processing Engineering <i>Thesis: Thin layer drying characteristics of amaranth grains in a natural convection solar tent dryer</i>
04/2001 – 04/2006	Jomo Kenyatta University of Agriculture and Technology, Juja, Kenya Bachelor of Science (BSc) in Agricultural Engineering (First Class Honours) <i>Project: Rainfall-runoff modelling for water resources planning – Kyeekolo watershed</i>

#### Secondary Education

02/1996 – 11/1999	Koiwa High School, Litein, Kenya Kenya Certificate of Secondary Education (KCSE)
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#### Primary Education

01/1987 – 11/1995	Tembwo Primary School, Sotik, Kenya Kenya Certificate of Primary Education (KCPE)
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**OTHER COURSES**

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10/2016 – 12/2016	International Project Management: Tutored e-Learning course offered through the Alumniportal Deutschland. Funded by the German Academic Exchange Service (DAAD, Germany), 10 <sup>th</sup> October 2016 – 3 <sup>rd</sup> December 2016
02/2015 – 12/2015	Strategies for writing scientific papers: One-to-one tutoring. Tutor: Dr. Joy Reid, Fachsprachenzentrum, Leibniz Universität Hannover, Hannover, Germany
10/2015 – 12/2015	Statistics in Applied Climatology (SIAC), University of Reading, UK. Funding through the World Meteorological Organization (WMO)
09/2011 – 03/2012	German language course at Goethe-Institut in Nairobi, Kenya (26 <sup>th</sup> September 2011 – 25 <sup>th</sup> November 2011) and Göttingen, Germany (29 <sup>th</sup> November 2011 – 23 <sup>rd</sup> March 2012) under the Kenya (NACOSTI) – Germany (DAAD) training programme
06/2009 – 08/2009	Statistics in Applied Climatology (e-SIAC), University of Reading, UK. Sponsored by the Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA)
06/2000 – 12/2000	National Certificate in Computer Operations (NCCO), Annex Computer College, Kericho, Kenya

**WORK EXPERIENCE**

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11/2016 – Date	Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya
Position	Lecturer, Agricultural and Biosystems Engineering Department (ABED), School of Biosystems and Environmental Engineering (SoBEE)
Duties	Teaching and research in the fields of Agricultural Processing Engineering and Structures; supervision of undergraduate and postgraduate students; publications; developing proposals aimed at attracting funds to the university; mentorship and academic counseling; other assigned academic tasks at the department
11/2010 – 11/2016	Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya
Position	Assistant Lecturer, Agricultural and Biosystems Engineering Department (ABED), School of Biosystems and Environmental Engineering (study leave: 2012 – 2016)
Duties	Contributing effectively to the creation and circulation of knowledge in Agricultural Processing Engineering and Structures through teaching, research and publication; enriching intellectual development of students through interaction and academic counseling; other assigned academic tasks at the department
04/2012 – 06/2016	Leibniz Universität Hannover, Hannover, Germany
Position	Research Associate ( <i>wissenschaftlicher Mitarbeiter</i> ), Biosystems Engineering Section (BGT), Leibniz Universität Hannover, Germany
Duties	PhD studies (greenhouse technology research team), general scientific tasks, manuscript preparation for submittal to peer-reviewed journals, working with the technical team (workshop), other duties assigned by the section head
06/2007 – 11/2010	Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya
Position	Teaching Assistant, Biomechanical and Environmental Engineering Department
Duties	Departmental academic tasks; research work; servicing departmental web pages;

teaching and preparing tutorials especially in units such as; Postharvest Machines, Properties of Biological Materials, Structural Design, Tillage and Planting Machinery, Drying and Storage of Biological Materials, Agricultural Process Engineering, Introduction to Energy Resources, Production Structures

07/2010	World Vision International – East Africa Regional Office, Nairobi, Kenya
Position	Research Assistant
Duties	Review of annual operation plans for the national offices within the East Africa region. The comments on the area development plans for the different projects were recommended to the national offices before forwarding to the support offices
08/2009 – 11/2011	Egerton University – Njoro Campus, Njoro, Kenya
Position	Part-time Lecturer
Duties	Lecturing and examining undergraduate units: Agricultural Process Engineering, Agricultural Structures, Properties of Agricultural Materials
05/2007 – 06/2007	Sotik Tea Company Limited, Sotik, Kenya
Position	Field Assistant, Arroket Estate
Duties	Field management operations: plucking, weeding, pruning, fertilizer application, spraying, infilling, roads maintenance and forestry. Field trials/experiments: use of mechanical tea harvesting (MTH) machines, suitability of clones in the fields
09/2006 – 03/2007	G. North & Son Limited, Nairobi, Kenya
Position	Sales Executive
Duties	Marketing and selling agricultural machinery equipment and irrigation systems; assembling and commissioning of agricultural machines such as mowers, rakes, ploughs, fertilizer spreaders, sprayers and other equipment from Kuhn (France); dairy equipment (milking machines and milk cans)
01/2005 – 03/2005	Unilever Tea Kenya Limited, Kericho, Kenya
Position	Trainee (2 <sup>nd</sup> External Attachment)
Duties	Repair and maintenance of agricultural machines and tractors at the Engineering Department; learning safety and environmental issues in the Company
01/2004 – 03/2004	Davis and Shirtliff Limited, Nairobi, Kenya
Position	Trainee (1 <sup>st</sup> External Attachment)
Duties	Servicing, repairing and installing water pumps; maintenance of swimming pool equipment; lifting and installing borehole pumps
01/2003 – 03/2003	JKUAT Engineering Workshops, Juja, Kenya
Position	Trainee (Internal Attachment)
Duties	Workshop practices: machining, plumbing, masonry, welding, carpentry, fitting. Field operations: ploughing adjustments, tractor driving and hitching methods
01/2002 – 03/2002	Unilever Tea Kenya Limited, Kericho, Kenya
Position	Trainee
Duties	Manufacturing process of black tea, quality improvement, workshop practices, carried out audit of conveyor guarding in the factory

**TRAININGS / WORKSHOPS / SEMINARS**

07/2019	EANLAR workshop on 'Sensitization on third party funded research projects', funded by the German Academic Exchange Service (DAAD), Mbeya University of Science and Technology (MUST), Mbeya, Tanzania, 8 <sup>th</sup> to 9 <sup>th</sup> July 2019
03/2019	International Workshop on 'Incremental Digitisation of Small-Scale Farming in East Africa (IDEA 2019)'. Supported by the University of South Wales (UK) and the Royal Academy of Engineering (UK) and hosted by JKUAT, Kenya, 7 <sup>th</sup> March 2019
10/2018	Innovation Exposition of Agricultural, Environmental and Biosystems Engineering, sponsored by the German Academic Exchange Service (DAAD). Organized by the Department of Environmental and Biosystems Engineering, University of Nairobi, Kenya, 23 <sup>rd</sup> October 2018
09/2018	Global Challenges Research Fund (GCRF) Workshop. Organized by Newcastle University (UK), Hilton Garden Inn, Nairobi, Kenya, 3 <sup>rd</sup> to 4 <sup>th</sup> September 2018
07/2018	International DAAD alumni expert seminar. Theme: Diversification of Water Sources and Production Systems towards Climate Smart Agriculture in Sudan. Organized by CICD – Universität Siegen (Germany), cewas – International Centre for Water Management Services (Switzerland), University of Khartoum (Sudan) and University of Kordofan (Sudan), 15 <sup>th</sup> to 26 <sup>th</sup> July 2018
03/2018	International DAAD alumni advanced training seminar and trade fair 'Anuga FoodTec 2018'. Theme: Efficiency improvements in sustainable horticultural value chains. Hosted by Leibniz Universität Hannover, Institute of Horticultural Production Systems, Vegetable Systems Modelling Section. Seminar: 12 <sup>th</sup> to 18 <sup>th</sup> March 2018 (Hannover, Germany) and Anuga FoodTec 2018 (Theme: Resource Efficiency): 19 <sup>th</sup> to 23 <sup>rd</sup> March 2018 (Cologne, Germany)
11/2017	Workshop on 'Sensitization of third party funded research proposal writing' under the East African Network of Learning of Administrators (EANLA)" project within the DAAD Programme "Dialogue on Innovating Higher Education Strategies" (DIES), Sino-Africa Joint Research Centre (SAJOREC), 20 <sup>th</sup> to 22 <sup>nd</sup> November 2017, JKUAT, Juja, Kenya
11/2017	International DAAD alumni expert seminar and trade fair 'Agritechnica 2017'. Theme: Smart and adapted technologies in agriculture for productive and sustainable land use systems in developing countries. Hosted by the University of Kassel and the DITSL (German Institute for Tropical and Subtropical Agriculture). 6 <sup>th</sup> to 13 <sup>th</sup> November 2017 (Witzenhausen, Germany) and 13 <sup>th</sup> to 19 <sup>th</sup> November 2017 (Hannover, Germany)
10/2017	Workshop on 'Impactful proposal writing for attracting internal and external funding' aimed at strengthening research and its management among young faculty in Kenyan public universities. Organized by the Directorate of Research, Science and Technology (DRST), Ministry of Education, 17 <sup>th</sup> – 19 <sup>th</sup> October 2017, Moi University, Nairobi Campus, Kenya
09/2017	Trilateral workshop (UK, South Africa and Kenya) on increased food security through improved postharvest systems using renewable and sustainable energy for rural

	communities. Organized by Newcastle University, Stellenbosch University and Jomo Kenyatta University of Agriculture and Technology (JKUAT), funded by the British Council, 4 <sup>th</sup> – 8 <sup>th</sup> September 2017, Stellenbosch, South Africa
03/2017	Curriculum-Based Curriculum (CBC). Organized by Jomo Kenyatta University of Agriculture and Technology (JKUAT), Kenya and facilitated by Wageningen University, The Netherlands, 1 <sup>st</sup> – 3 <sup>rd</sup> March 2017, SAJOREC, Juja, Kenya
09/2013	DAAD Graduate Academy, Sustainable Natural Resource Management in Sub-Sahara Africa. Working Group I – Biodiversity Management and Research, 25 <sup>th</sup> – 29 <sup>th</sup> September 2013, Wandlitz, Berlin, Germany
06-07/2011	DAAD international alumni expert seminar on climate change and food security: Integrated watershed management as adaptive tool, 27 <sup>th</sup> June to 8 <sup>th</sup> July 2011, Kabale, Uganda
04/2011	DAAD international alumni expert seminar on capacity building on integrated watershed management for sustainable natural resource management and conflict resolution in trans-boundary mountainous ecosystems of Eastern Africa, 3 <sup>rd</sup> – 14 <sup>th</sup> April 2011, Mbale, Mt. Elgon, Uganda
09/2010	DAAD alumni summer school on integrated watershed management – financial aspects of watershed management, 12 <sup>th</sup> – 24 <sup>th</sup> September 2010, Moshi, Tanzania
03/2010	Scouting workshop for tertiary institution scout leaders and patrons, 19 <sup>th</sup> – 20 <sup>th</sup> March 2010, Nairobi Youth Hostels, Kenya
08/2009	Wastewater treatment technologies: Intensive course, organized by Jomo Kenyatta University of Agriculture and Technology (JKUAT), Kenya, and Lappeenranta University of Technology (LUT), Finland, under auspices of CIMO–North-South-South Project, 3 <sup>rd</sup> – 13 <sup>th</sup> August 2009, Juja, Kenya
04/2009	Mechanical Engineering Annual Seminar – Series 11. Jomo Kenyatta University of Agriculture and Technology, 2 <sup>nd</sup> –3 <sup>rd</sup> April 2009, Juja, Kenya
02/2009	Moodle learning management systems (LMS), JKUAT School of E-Learning, Juja, Kenya
05/2007	Behaviour change process organized for Sotik Tea Company management team, Sotik, Kenya

#### **SCIENTIFIC CONFERENCES**

11/2018	EANLA International Conference on Sustainability of the EANLA Network in Enhancing Third Party Funding for Research and Development. Co-organized and prepared presentation on 'Exploration of Possible Funding Opportunities for a Joint EANLA Research Project Proposal in the East African Region', African Institute for Capacity Development (AICAD), JKUAT, 19 <sup>th</sup> –22 <sup>nd</sup> November 2018, Juja, Kenya
06/2018	8 <sup>th</sup> International Conference on Food Safety and Regulatory Measures. Oral presentation on 'Preservation of fresh fruits and vegetables and quality standards during storage utilizing energy-efficient technologies for improved livelihoods', 11 <sup>th</sup> –12 <sup>th</sup> June 2018, Barcelona, Spain

02/2015	DGG & BHGL 50 <sup>th</sup> Horticultural Science Conference and International WeGa Symposium. 24 <sup>th</sup> –28 <sup>th</sup> February 2015, Freising-Weihenstephan, Germany
03/2014	DGG & BHGL 49 <sup>th</sup> Annual Conference. 5 <sup>th</sup> –8 <sup>th</sup> March 2014, Dresden, Germany
11/2010	5 <sup>th</sup> JKUAT Scientific, Technological and Industrialisation Conference. African Institute for Capacity Development (AICAD), 17 <sup>th</sup> –19 <sup>th</sup> November 2010, Juja, Kenya
04/2010	Sustainable Research and Innovation Conference (Jomo Kenyatta University of Agriculture and Technology). African Institute for Capacity Development (AICAD), 8 <sup>th</sup> –9 <sup>th</sup> April 2010, Juja, Kenya
11/2009	6 <sup>th</sup> Global Consortium of Higher Education and Research for Agriculture (GCHERA) Conference. 23 <sup>rd</sup> –27 <sup>th</sup> November 2009, Nairobi, Kenya

### **COMPUTER PROFICIENCY**

Experienced in using Microsoft office programs, AutoCAD, GenStat, InStat, SPSS, LaTeX, SigmaPlot, ProfiLab Expert 4.0, MATLAB Basics

### **RESPONSIBILITIES**

04/2019 – Date	Member – Plant Engineering Sector Skills Advisory Committee (SSAC), TVET Curriculum Development, Assessment and Certification Council (TVET CDACC)
08/2018 – Date	Shows and Exhibitions Coordinator – Agricultural and Biosystems Engineering Department (ABED), JKUAT, Juja, Kenya
11/2017 – Date	Assistant Patron – JKUAT Rover Scouts Crew (Puma), Juja, Kenya
08/2017 – 07/2019	Examinations Coordinator – Agricultural and Biosystems Engineering Department (ABED), JKUAT, Juja, Kenya
10/2016 – 12/2016	Acting Chairman, ABED, JKUAT, Juja, Kenya
04/2013 – 09/2016	Choir Member, St. Maria Catholic Church, Hannover, Germany
04/2009 – 09/2011	Examinations Coordinator – BEED, JKUAT, Juja, Kenya
05/2008 – 09/2011	Deputy Patron – KIPUSA, JKUAT, Juja, Kenya
03/2009 – 09/2011	Assistant Scout Leader – JKUAT Rover Scouts Crew, Juja, Kenya
01/2000 – 11/2011	Youth Leader – Education and Professionalism (Kiptorbei Catholic Church), Sotik, Kenya
04/2004 – 04/2006	Vice-Chairman, Society of Agricultural Engineers (SAE), JKUAT, Juja, Kenya
04/2004 – 04/2006	Treasurer, Kipsigis University Students' Association (KIPUSA), JKUAT, Juja, Kenya
04/2003 – 04/2004	Chairman, Bomet District University Students' Association, JKUAT, Juja, Kenya
08/2001 – 04/2006	Class Representative (University – undergraduate class), JKUAT, Juja, Kenya
08/1998 – 10/1999	Workshop Prefect (Koiwa High School), Litein, Kenya

### **LANGUAGES**

	<u><b>Understanding</b></u>	<u><b>Speaking</b></u>	<u><b>Writing</b></u>
Kalenjin (Kipsigis)	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
Kiswahili	Excellent	Excellent	Excellent
German	Good	Good	Good

**MEMBERSHIP IN PROFESSIONAL BODIES**

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- 05/2008 – Date Graduate Engineer (B4919), Engineers Registration Board (ERB) of Kenya
- 01/2014 – 12/2016 German Society for Horticultural Science (*Deutsche Gartenbauwissenschaftliche Gesellschaft e.V.*, DGG), Germany (Membership number: 30671)

**ACCOMPLISHMENTS / AWARDS**

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- 02/2015 BHGL poster prize for young researchers (position 2), 50<sup>th</sup> Horticultural Science Conference (DGG, BHGL and WeGa), TU München and HS Weihenstephan-Triesdorf, Freising, Germany, 24<sup>th</sup>–28<sup>th</sup> February 2015
- 04/2012 – 12/2015 PhD joint scholarship between the National Commission for Science, Technology and Innovation (NACOSTI), Kenya and the German Academic Exchange Service (DAAD), Germany. Research Institution: Leibniz Universität Hannover, Germany
- 09/2008 – 08/2009 In-Country scholarship (DAAD) for MSc research (2<sup>nd</sup> year)
- 10/2002 – 02/2006 Babaroa Trust awards of academic excellence (2001/2002 – 2004/2005 academic years)

**HOBBIES / INTERESTS**

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Football fan, playing darts, scouting, traveling, reading scientific and professional journals, offering community services

**RESEARCH INTERESTS**

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- Agricultural processing engineering
- Renewable energy technology
- Agricultural structures
- Modeling and simulation in agriculture

**POSTGRADUATE STUDENTS SUPERVISION**

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**a) PhD Students Supervision**

1. Veronica Ngunzi, 'Stochastic modelling and optimization of energy mix for biomass boilers in KTDA-based tea factories', PhD Agricultural Processing Engineering, Agricultural and Biosystems Engineering Department, JKUAT (2017 – Date, status: ongoing).
2. Florence Gatwiri Kiburi, 'Exergetic analysis and optimization of a hybrid solar-biomass greenhouse dryer for drying banana slices', PhD Agricultural Processing Engineering, Agricultural and Biosystems Engineering Department, JKUAT (2016 – Date, status: ongoing).

**b) MSc Students Supervision**

1. Jouontso Tene Yves Constantin, 'Characterization of natural coconut shell particles as partial replacement of mineral aggregate in plastic waste paving blocks for road surfacing', MSc Civil Engineering (Structural Option), Pan African University Institute of Basic Sciences, Technology and Innovation (2017 – Date, status: ongoing).
2. Morris Oleng, 'Suitability of crushed ceramic and porcelain clay tiles as partial replacement of cement in concrete', MSc Civil Engineering (Structural Option), Pan African University Institute of Basic Sciences, Technology and Innovation (2016 – 2018, status: completed).

**RESEARCH PROJECTS INVOLVED IN (FUNDED)**

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1. Development and demonstration of a unique low cost scalable PV technology for international development. Funded by Engineering and Physical Sciences Research Council (EPSRC) – Grant Ref:

- EP/R042233/1. Coordinated by The Sir Joseph Swan Centre for Energy Research (SWAN), Newcastle University (UK) and JKUAT (Kenya), Research funding: £13,765.50 (status: funded, starting 2019)
2. Mass production and utilization of edible insects and cassava meal for feed security and improvement of livelihood for smallholder farmers in Kenya. Funded by National Research Fund (NRF), Kenya. PI: Dr. Mathew Gicheha (JKUAT), Research funding: Kshs 19,876,521 (status: funded, ongoing).
  3. Design, performance testing and commercialization of greenhouse solar dryer with forced convection air system. Funded by the National Commission for Science, Technology and Innovation (NACOSTI), Kenya. PI: Eng. Samuel Njuguna (JKUAT), Research funding (3 years: 2015 – 2018): Kshs 6,000,000 (status: funded, ongoing).
  4. Energy efficient rural food processing utilising renewable energy to improve rural livelihoods: RE4Food Project. Funded by The Sir Joseph Swan Centre for Energy Research (SWAN), Newcastle University, UK and involved Kassel University (Germany) and a number of universities and partner organizations in Africa (Kenya, Ghana, South Africa and Sierra Leone). PI: Prof. Christopher Kanali (JKUAT), Research funding (2014-2016): Kshs 12,449,780 (£88,927; status: completed).

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#### **RESEARCH PROJECTS DEVELOPED BUT UNFUNDED**

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1. Enhancing agricultural product drying and cooling infrastructure to maximise the use of renewable energy by integrating thermochemical technology (AGRI-MAX). Collaboration between JKUAT, Kenya and Newcastle University, UK. Proposal developed and submitted to EPSRC (UK) in November 2016, PI: Prof. Christopher Kanali (JKUAT), Research funding: Kshs 24,090,000 (status: unfunded).
2. Promoting consumption of cassava leaves as a source of proteins and micronutrients for improved nutrition in Kenya (MANIOK). Collaboration between Federal Research Institute of Nutrition and Food (MRI, Germany), Kenya Industrial Research and Development Institute (KIRDI, Kenya) and JKUAT, Kenya. Proposal developed and submitted to Federal Office for Agriculture and Food (BMZ, Germany) in November 2016, PI: Dr. Norbert Haase (MRI, Germany), Research funding: € 338,772 (status: unfunded).
3. Enhanced productivity of sunflower value chain for improved livelihoods and livestock production for smallholder farmers in Kenya. Proposal developed and submitted to National Research Fund (NRF, Kenya) in November 2016, PI: Dr. Erick Ronoh (JKUAT, Kenya), Research funding: Kshs 19,930,000 (status: unfunded).
4. Development of appropriate greenhouse technology for sustainable vegetable production for climate change mitigation and socio-economic development in Kenya. Proposal developed and submitted to National Research Fund (NRF, Kenya) in November 2016, PI: Dr. Urbanus Mutwiwa (JKUAT), Research funding: Kshs 19,921,000 (status: unfunded).
5. Development of appropriate greenhouse and postharvest handling technologies for sustainable vegetable production and socio-economic development in Kenya. Proposal developed and submitted to National Research Fund (NRF, Kenya) in February 2018, PI: Dr. Erick Ronoh (JKUAT), Research funding: Kshs 19,999,400 (status: unfunded).
6. Towards climate smart small-holder nutrition sensitive agriculture: Technological justice driven food and nutrition security for improved rural livelihoods. Proposal developed and submitted to International Development Research Centre (IDRC, Canada) under “Cultivate Africa’s Future” (CultiAF 2) in March



2018, PI: Prof. Christopher Kanali (JKUAT), Research funding: Canadian Dollars (CAD) 2,997,811 (status: submitted pending decision).

## **CONSULTANCIES**

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- 08/2019 Review of Concept Notes (Sustainable Bio-Energy Value Chain) under the Kenya Climate Smart Agricultural Project (KCSAP), 14<sup>th</sup> to 16<sup>th</sup> August 2019, KALRO Naivasha, Kenya.
- 08-10/2017 Design and development of a solar tunnel dryer for fish drying in Lake Albert, Uganda. Rockfill International Ltd. The focus was on design components (substructure, solar collector and chimney section) and maximum throughput for optimal fish drying. Testing of the developed system was also recommended to evaluate its technical performance.
- 07/2017 Community ambulance engineering consultation (Korogocho, Nairobi). The focus was on exploring weight-reducing strategies for the existing prototype and building a model that can be collapsed or flat-packed for transportation and storage.

## **PUBLICATIONS**

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### **1. Peer-Reviewed Journals**

- Yves, J.T.C., Gariy, Z.C.A., Shitote, S.M. and **Ronoh, E.K.** (2019). Influence of coarse aggregate on the physical and mechanical performance of paving blocks made using waste plastic. *International Journal of Engineering Research and Technology*, 12(6), 912-916.
- Olung, M., Gariy, Z., Kanali, C. and **Ronoh, E.** (2018). Physical and mechanical experimental investigation of concrete incorporated with ceramic and porcelain clay tile powders as partial cement substitutes. *International Journal of Engineering Research and Technology*, 7(9), 126-130.
- Ronoh, E.K.**, Kanali, C.L., Ndirangu, S.N., Mang'oka, S.M. and John, A.W. (2018). Performance evaluation of an evaporative charcoal cooler and its effects on quality of leafy vegetables. *Journal of Postharvest Technology*, 6(3), 60-69.
- Olung, M., Gariy, Z.C.A., Kanali, C.L. and **Ronoh, E.K.** (2018). Physical and chemical properties of crushed ceramic and porcelain clay tile powder. *International Journal of IT, Engineering and Applied Sciences Research*, 7(7), 1-5.
- Ndirangu, S.N., Kanali, C.L., Mutwiwa, U.N., Kituu, G.M. and **Ronoh, E.K.** (2018). Analysis of designs and performance of existing greenhouse solar dryers in Kenya. *Journal of Postharvest Technology*, 6(1), 27-35.
- Ronoh, E.K.** (2017). Impact of cloudiness on longwave radiation exchange at exterior greenhouse surfaces. *International Journal of BioEngineering and Technology*, 6(4): 32-37.
- Kiburi, F.G., Mutwiwa, U.N., **Ronoh, E.K.**, Chemain, N. and Yegon, H.K. (2017). Evaluating the performance of dehumidified solar dryer in drying of pumpkin slices (*Cucurbita pepo*). *African Journal of Horticultural Science*, 11, 72-81.
- Ronoh, E.K.** (2017). Estimation of total solar radiation incident on an inclined surface of a south-facing greenhouse roof. *Journal of Sustainable Energy*, 8(2), 54-59.
- Ronoh, E.K.** and Rath, T. (2017). Effects of greenhouse surface inclination and orientation on exterior longwave radiation exchange. *Journal of Sustainable Research in Engineering*, 3(4), 105-112.
- Ronoh, E.K.** (2017). Prediction of total solar irradiance on tilted greenhouse surfaces. *Agricultural Engineering International: CIGR Journal*, 19(1), 114-121.

- Ronoh, E.K.** and Rath, T. (2015). Modelling of longwave radiation exchange at greenhouse surfaces under all-sky conditions. *Agricultural Engineering International: CIGR Journal*, 17(4), 23-35.
- Ronoh, E.K.**, Kanali, C.L., Mailutha, J.T. and Shitanda, D. (2012). Evaluation of solar-energy dryer systems on drying behavior and quality attributes of amaranth grains. *International Journal of Energy Science*, 2(5), 189–194.
- Ronoh, E.K.**, Kanali, C.L., Mailutha, J.T. and Shitanda, D. (2010). Thin layer drying characteristics of amaranth grains in a natural convection solar tent dryer. *The Kenya Journal of Mechanical Engineering*, 6(2), September 2010.
- Ronoh, E.K.**, Kanali, C.L., Mailutha, J.T. and Shitanda, D. (2010). Thin layer drying kinetics of amaranth (*Amaranthus cruentus*) grains in a natural convection solar tent dryer. *African Journal of Food, Agriculture, Nutrition and Development (AJFAND)*, 10(3), 2218–2234.
- Ronoh, E.K.**, Kanali, C.L., Mailutha, J.T. and Shitanda, D. (2009). Modeling thin layer drying of amaranth seeds under open sun and natural convection solar tent dryer. *Agricultural Engineering International: CIGR EJournal*, Manuscript 1420, Vol. XI. November, 2009.

## **2. Conference Proceedings and Workshop/Seminar Presentations**

- Ronoh, E.K.** and Kizito, M. (2019). Introduction to research proposal writing for third party funded projects (activities and budgeting). EANLAR Workshop, Mbeya University of Science and Technology (MUST), Mbeya, Tanzania, 8<sup>th</sup> to 9<sup>th</sup> July 2019.
- Kizito, M., **Ronoh, E.K.**, Kanali, C.L. and Mwangi, L.W. (2018). Exploration of possible funding opportunities for a joint EANLA research project proposal in the East African region. EANLA International Conference, AICAD, JKUAT, Kenya, 19<sup>th</sup> to 23<sup>rd</sup> November 2018.
- Ronoh, E.K.** (2018). Development of value-added agricultural products for enhanced food and nutrition security among smallholder farmers in Kenya. International DAAD Alumni Seminar, Hannover, Germany, 12<sup>th</sup> to 18<sup>th</sup> March 2018.
- Ronoh, E.K.** (2017). Utilization of a multi-purpose hybrid dryer and an evaporative charcoal cooler for improved livelihoods of small-scale farmers in Kenya. International DAAD Expert Seminar, Witzenhausen, Germany, 6<sup>th</sup> to 13<sup>th</sup> November 2017.
- Ronoh, E.K.** and Rath, T. (2014). Investigations on the external thermal radiation exchanges between the glass-covered greenhouse surfaces and the sky. *DGG-Proceedings*, 4(6): 1-5. DOI: 10.5288/dgg-pr-04-06-er-2014.
- Ronoh, E.K.** and Rath, T. (2014). Vision-based estimation of cloudiness from weather maps for agricultural modelling. 20<sup>th</sup> Workshop Computer Image Analysis in Agriculture, Hochschule Osnabrück, Germany, 26<sup>th</sup> May 2014. Bornimer Agrartechnische Berichte, Heft 88, ISSN 0947-7314, p. 178.
- Ronoh, E.K.** (2011). Vulnerability, resilience and adaptation in food systems. DAAD International Alumni Expert Seminar, Kabale, Uganda, 27<sup>th</sup> June to 8<sup>th</sup> July 2011.
- Ronoh, E.K.**, Kanali, C.L., Mailutha, J.T. and Shitanda, D. (2010). Thin layer drying characteristics of amaranth grains in a natural convection solar tent dryer. The 5<sup>th</sup> JKUAT Scientific, Technological and Industrialisation Conference. African Institute for Capacity Development (AICAD), Juja, Kenya, 17<sup>th</sup>–19<sup>th</sup> November 2010.

- Ronoh, E.K.**, Kanali, C.L., Mailutha, J.T. and Shitanda, D. (2010). Analysis of thin layer solar drying

characteristics and product quality of amaranth grains. Proceedings of the 2010 Sustainable Research and Innovation Conference (Jomo Kenyatta University of Agriculture and Technology). African Institute for Capacity Development (AICAD), Juja, Kenya, 8<sup>th</sup>–9<sup>th</sup> April 2010. ISSN: 2073-6568, pp. 7–12.

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