

# CURRICULUM VITAE



<b>NAME</b>	<b>DARIUS ANDIKA OTIATO</b>
<b>CURRENT POSITION</b>	LECTURER
<b>UNIVERSITY ACADEMIC POSITION</b>	LECTURER
<b>INSTITUTION</b>	JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
<b>PHYSICAL ADDRESS</b>	210- BONDO

<b>PERSONAL DATA</b>	
<b>DATE OF BIRTH</b>	1977
<b>PLACE OF BIRTH</b>	KENYA
<b>NATIONALITY</b>	KENYAN
<b>PROFESSION</b>	HORTICULTURIST
<b>CONTACT ADDRESS</b>	+254 721 533 596

## 1. SUMMARY OF EXPERIENCE

### Research Focus

Cropping systems and their influence on mineral nutrients requirement of horticultural crops in the tropics. Development of integrated nutrient management packages for Horticultural crops. Conservation of biodiversity and resilience mechanisms of crops/agricultural systems to climate change.

### Experience

Research on resource use efficiency and interactions in intercropping systems conducted at University Hannover. Research on integrated nutrient management and nitrogen use efficiency in African Indigenous Vegetables in Kenya for improved livelihood and poverty alleviation. Monitoring of heavy metals pollution in river water in urban and peri-urban areas in Kenya. Community seed multiplication for African indigenous vegetables and post harvest technologies that reduce losses. Soil fertility dynamics in small holder farmer farms for improved productivity.

## 2. EDUCATION

<i>Year (from – to)</i>	<i>Degree, Institution</i>
<b>2006-2010</b>	Ph.D (Maseno University/University of Hannover)

<b>2003-2005</b>	MSc. ( Maseno University)
<b>1998-2002</b>	BSc. (Maseno University)

### 3. EMPLOYMENT

<i>Years since</i>	<i>Company / Institution</i>
<b>3 years</b>	Jaramogi Oginga Odinga University of Science and Technology

### 4. POSITIONS PREVIOUSLY HELD

<i>Year (from – to)</i>	<i>Position, Project / Programme, Company / Institution / Client Description of roles and responsibilities</i>
<b>2010- Present</b>	Lecturer, School of Agricultural and Food Sciences, JOOUST. <b>Duties;</b> Teaching, conducting research and supervising undergraduate and Post graduate research projects
<b>2009- 2010</b>	Assistant lecturer; Botany and Horticulture Department, Maseno University, Kenya. <b>Duties;</b> Teaching, conducting research and supervising undergraduate research projects
<b>2006- 2009</b>	Tutorial Fellow, Botany and Horticulture Department, Maseno University, Kenya. <b>Duties:</b> Pursuing PhD studies, teaching, conducting research and supervising undergraduate research projects.
<b>2003- 2006</b>	Graduate Assistant, Department of Botany and Horticulture, Maseno University, Kenya. <b>Duties:</b> Pursue Masters Degree in Horticulture (Completed), Teaching and conducting research under the supervision of the University Professors.

### 5. EXTERNAL APPOINTMENTS/AWARDS

<i>Year</i>	<i>Appointment as/Institution/Project</i>
	<b>2008:</b> DAAD research visit to Germany at University of Hannover
	<b>2006:</b> Awarded the DAAD Pure Research Grant Scholarship to pursue PhD
	<b>2003:</b> Maseno University scholarship for staff development to pursue Masters.

### 6. RESEARCH ACTIVITIES/PROJECTS (Past and Present)

<i>Years/Duration</i>	<i>Position /Title / Sponsor</i>
	<b>2014-2018:</b> Partner within the framework of the joint research

	project “ <b>GlobE-HORTINLEA</b> ” within the framework of the funding measure “GlobE- Global Food Security” of the Federal Ministry of Education and Research of Germany. “Soil fertility and nutrients management in urban and peri urban regions for improved horticultural production”.
	<b>2011-2014-KAPAP FUNDED:</b> Improving the quality, climate change resilience and productivity of African indigenous vegetables for food security and wealth creation in Kenya
	<b>2011-2014 (NCST) NCST/5/0003/3<sup>rd</sup>/STI/CALL/89.</b> Improving Production, Processing and Marketing of Three Priority Indigenous Vegetable in Western Kenya.
	<b>2010-2013. NCST/5/003/CALL2/37.</b> Participatory Evaluation and Selection of High Yielding Spiderplant lines for Increased Peri-urban Vegetable Production.

### 7. OUTREACH ACTIVITIES

<b>Year from - to</b>	<i>Specific description of Activity</i>
<b>2005-2007</b>	Promotion of No- Till Cultivation and Biological Ploughing in Small Holder Farms. 2005-2007. Siaya District.
<b>2011-2012</b>	Construction of low cost greenhouses and their management practices.

### 8. LINKAGES AND COLLABORATIONS

<b>Year from – to</b>	<i>Description of links/collaborations</i>
<b>2008-present</b>	University of Hannover, Germany
<b>2012-Present</b>	Humboldt University of Berlin, Germany

### 9. TRAININGS /WORKSHOPS/SYMPOSIA ATTENDED

1. Proposal writing and fundraising workshop. Held at <b>Bondo University College, Bondo</b> , Kenya on 13 <sup>th</sup> and 14 <sup>th</sup> September 2011.
2. Implementation of ISO 9001:2008 for Quality Management Systems. Held at <b>Bondo University College, Bondo</b> , Kenya on 16 <sup>th</sup> -18 <sup>th</sup> August 2011.
3. Experimental Design and Data Analysis with Focus on Underutilized Crops Research, held on 23 <sup>rd</sup> -27 <sup>th</sup> August 2010 at <b>Entebbe, Uganda</b> .
4. E-resources. Held on 6 <sup>th</sup> -7 <sup>th</sup> May 2010 at <b>Masinde Muliro University of Science and Technology</b> .

### 10. MEMBERSHIP TO COMMITTEES/BOARDS

	School of Agricultural and food Sciences representative for ISO: 9001:2008 Implementation JOOUST
	Member JOOUST Aids Control Unit
	Secretary Horticultural Association of Kenya (HAK)
	Assistant Chairman, JOOUST DAAD Scholars Chapter

11. MEMBERSHIP TO PROFESSIONAL ASSOCIATIONS /BODIES	
	Horticultural Association of Kenya (HAK)
	Soil Science Society of East Africa
	Kenya Organic Agriculture Network
	Kenya DAAD Scholars Association of Kenya

15. LANGUAGE PROFICIENCY	
	English
	Kiswahili

16. CONFERENCES ATTENDED	
1)	<b>2013:</b> African Cities of the Future: Smart, Sustainable, Public Participation. 30 <sup>th</sup> – 31 <sup>st</sup> May 2013 - Safari Park Hotel
2)	<b>2012:</b> Integrating Urban Agriculture in the Counties for Improved Food Security. Paper presented in first Workshop on Role of Science and Technology in the Devolved Governance and New Constitutional Dispensation in Kenya, held at Bondo University, Kenya, 20 <sup>th</sup> to 23 <sup>rd</sup> December 2012.
3)	<b>2012.</b> The position of horticulture in enhancing the economic development in Siaya County. Paper presented in first Workshop on Role of Science and Technology in the Devolved Governance and New Constitutional Dispensation in Kenya, held at Bondo University, Kenya, 20 <sup>th</sup> to 23 <sup>rd</sup> December 2012
4)	<b>2011:</b> Eleventh Workshop on Sustainable Horticultural Production in the Tropics, held at <b>Pwani University College, Kilifi</b> , Kenya, 7 <sup>th</sup> to 10 <sup>th</sup> December 2011.
5)	<b>2011:</b> Food Security and Environmental Sustainability in a World of Changing Climates. Conference held at <b>Bondo University College</b> , Kenya between 20th and 23rd February 2011.
6)	<b>2009:</b> Post harvest processing, storability and quality attributes of Indigenous vegetables among producers and consumers in Kenya: Value chains of Vegetables for local market, export and processing. The ninth workshop on sustainable horticultural production in the tropics held at <b>world vegetable centre, regional center for Africa Arusha Tanzania. 2<sup>nd</sup> - 5<sup>th</sup> December 2009.</b>
7)	<b>2008:</b> Networking to Promote the Sustainable Production and Marketing of Indigenous Vegetables through Urban and Peri-Urban Agriculture in Sub-Saharan Africa. The promotion of indigenous vegetables in african urban and periurban spaces: production, consumption, poverty alleviation and policy. <b>Held at Rhodes University, Grahams Town, South Africa on 22<sup>nd</sup> to 28<sup>th</sup> January 2008.</b>
8)	<b>2007:</b> Networking to Promote the Sustainable Production and Marketing of Indigenous Vegetables through Urban and Peri-Urban Agriculture in Sub-Saharan Africa. Market chains and consumer trends; Quality management and identifying niche markets in urban and peri-urban areas and linking communities extension services, researchers and policy makers fro Indigenous Vegetables production in urban and peri-urban area. <b>Held</b>

- Arusha, Tanzania on 17<sup>th</sup> to 21<sup>st</sup> September 2007.**
- 9) **2007:** 5<sup>th</sup> International Symposium on New Crops and Uses: their role in a rapidly changing world. **Held at the University of Southampton, United Kingdom between 3<sup>rd</sup> and 6<sup>th</sup> September 2007.**
  - 10) **2006:** Networking to Promote the Sustainable Production and Marketing of Indigenous Vegetables through Urban and Peri-Urban Agriculture in Sub-Saharan Africa. 4<sup>th</sup> *IndigenoVeg* Meeting on “Seed Management Issues of African Indigenous Vegetables (IVs)” and “IVs and Nutrition: From Plough to Plate”. **Held at Milimani Resort, Kisumu, Kenya on 31<sup>st</sup> October to 3<sup>rd</sup> November 2006.**
  - 11) **2006:** Programme for Organic Sector Stakeholders Curriculum Development
  - 12) Workshop. **Held at ICIPE, Kasarani, Nairobi, Kenya on 28<sup>th</sup> Sep 2006**
  - 13) **2006:** Networking to Promote the Sustainable Production and Marketing of Indigenous Vegetables through Urban and Peri-Urban Agriculture in Sub-Saharan Africa. 2<sup>nd</sup> *IndigenoVeg* Meeting on Biodiversity of Indigenous Vegetables (IVs) and improving the production of IVs – selecting the best genotypes in combination with the best cultural practices. **Dakar, Senegal, 25<sup>th</sup> to 28<sup>th</sup> of July, 2006**
  - 14) **2006:** We are what we eat’. Marking the Organic week in Kenya. **Nairobi, Kenya 2<sup>nd</sup> June 2006**
  - 15) **2005:** Fifth Workshop on Sustainable Horticultural Production in the Tropics, held at **Egerton University, Nakuru, Kenya, in November 2005.**
  - 16) **2004:** Workshop on Research Ethics: Violation of social and scientific research ethics in Kenya and the way forward. **12<sup>th</sup> Feb 2004. Maseno University, Kenya.**
  - 17) **2004:** 4<sup>th</sup> workshop on sustainable horticultural production in the tropics, at **Moi university, Eldoret kenya. November, 2004.**
  - 18) **2003:** Towards harmonization of post graduate training through improved student-supervisor relationships. **24<sup>th</sup>-25<sup>th</sup> April, 2003, Maseno University, Kenya.**
  - 19) **2003:** 3<sup>rd</sup> workshop on sustainable horticultural production in the tropics, at **Maseno university, Kisumu kenya. November, 2003.**

## 17. ABSTRACTS FOR CONFERENCES

1. **Andika, D.O.;** P. Hayombe; M. Oloko; and A.N. Muriithi. **2012.** Integrating Urban Agriculture in the Counties for Improved Food Security. Paper presented in first Workshop on Role of Science and Technology in the Devolved Governance and New Constitutional Dispensation in Kenya, held at Bondo University, Kenya, 20<sup>th</sup> to 23<sup>rd</sup> December 2012.
2. Muriithi, A.N. and **D. O. Andika. 2012.** The position of horticulture in enhancing the economic development in Siaya County. Paper presented in first Workshop on Role of Science and Technology in the Devolved Governance and New Constitutional Dispensation in Kenya, held at Bondo University, Kenya, 20<sup>th</sup> to 23<sup>rd</sup> December 2012.
3. **Andika D.O,** Abukutsa-Onyango M.O, Onyango J.C and Stutzel H. **(2011).** Overview of Cropping Systems and Soil Conservation Strategies in Western Kenya. Paper presented in the eleventh Workshop on Sustainable Horticultural Production in the Tropics, held at Pwani University College, Kilifi, Kenya, 7<sup>th</sup> to 10<sup>th</sup> December 2011.
4. **Andika D.O,** Abukutsa-Onyango M.O, Onyango J.C and Stutzel H. **(2011).** Cropping Systems and Soil Conservation Strategies: Their Role in Food

Security in Western Kenya. In Food Security and Environmental Sustainability in a World of Changing Climates. Conference held at Bondo University College, Kenya between 20th and 23rd February 2011.

5. **Andika D.O**, Onyango M.O.A and Mwai J. (2009). Post harvest processing, storability and quality attributes of Indigenous vegetables among producers and consumers in Kenya. In Value chains of Vegetables for local market, export and processing. The ninth workshop on sustainable horticultural production in the tropics held at world vegetable centre, regional center for Africa Arusha Tanzania between 2nd - 5th December 2009.
6. **Andika D.O**, Onyango M.O.A and Onyago J.C. 2007. Role of Bambara groundnuts (*Vigna subterranea*) in cropping systems in Western Kenya. Paper presented in the 5<sup>th</sup> International Symposium on New Crops and Uses: their role in a rapidly changing world. Held at the University of Southampton, United Kingdom between 3<sup>rd</sup> and 6<sup>th</sup> September 2007
7. Mukonzo M.W\*, Onyango M.O.A and **Andika D.O**. 2006. Response of Spiderplant (*Cleome gynandra*) to Topping. Paper presented in the sixth Workshop on Sustainable Horticultural Production in the Tropics, held at Kenya Agricultural Research Institute, Mtwapa, Mombasa, Kenya, 6<sup>th</sup> to 9<sup>th</sup> December 2006.
8. **Andika D.O** and Onyango M.O.A. (2006). Effect of Organic and Inorganic Fertilizer Sources on Growth and Yield of African Night Shades (*Solanum scabrum*). In Networking to Promote the Sustainable Production and Marketing of Indigenous Vegetables through Urban and Peri-Urban Agriculture in Sub-Saharan Africa during 2<sup>nd</sup> *IndigenoVeg* Meeting on Biodiversity of Indigenous Vegetables (IVs) and improving the production of IVs – selecting the best genotypes in combination with the best cultural practices. *Dakar, Senegal, 25<sup>th</sup> to 28<sup>th</sup> of July, 2006*.
9. **Andika D.O** and Onyango M.O.A. (2006). African Indigenous Vegetables for health, wealth and strength. In 'We are what we eat' during the organic week. Nairobi, Kenya 2<sup>nd</sup> June 2006.
10. **Andika D.O**. 2005. Suitability of some organic materials available in Kenya for formulating substrates for growing nursery and potted plants. Msc. thesis. Maseno University
11. **Andika D.O**, and Ngamau K. (2005). Chemical suitability of some organic materials available in Kenya as components of potting substrate. Paper presented in the Fifth Workshop on Sustainable Horticultural Production in the Tropics, held at Egerton University, Nakuru, Kenya, in November 2005.
12. **Andika D.O** and Gerroh. C.O. 2004. Performance of tissue cultured bananas (*musa spp var. williams hybrid*) on organic waste substrates. Paper presented in the 4<sup>th</sup> workshop on sustainable horticultural production in the tropics, at Moi university, Eldoret kenya. November, 2004.

## 24. PUBLICATIONS

- 2) Misiko, F.M; **Andika D.O**; John R. and John G. (Accepted). Physico-Chemical Characteristics of Nyanza Gulf in Lake Victoria, Kenya. **Accepted in the**

***Journal of Agricultural and Biological Science.***

- 3) Hayombe P. **Andika D.O**, Oloko M and Ayuo K. **2012**. Urban and Peri-Urban Agriculture Policy Brief: A case of Kisumu City. Working paper No. 1: 2012.
- 4) Gor, CO, Agong S.G, Achieng L, Akuno W, and **Andika D.O. 2012**. The interface between mango value chain analysis and the socioeconomic determinants. **Afr. J. Hort. Sci. (June 2012) 6:1-16.**
- 5) **Andika D.O**, Abukutsa-Onyango M.O, Onyango J.C and Stutzel H. **(2011)**. Soil Fertility Dynamics in Bambara groundnuts (*Vigna subterranea*) and NERICA Rice (*Oryza sativa*) Intercrop System in Small Holder Farms in Western Kenya. ***International Journal of Plant, Animal and Environmental Science. ISSN 2231-4490.***
- 6) **Andika D.O**, Abukutsa-Onyango M.O, Onyango J.C and Stutzel H. **(2010)**. Roots Spatial Distribution and Growth in Bambara groundnuts (*Vigna subterranea*) and NERICA rice (*Oryza sativa*) Intercrop System. ***Journal of Agricultural and Biological Sciences, 5 (2). ISSN 1990-6145.***
- 7) **Andika D.O** and Ngamau K. (2009). Chemical Properties of Some Organic Materials Available in Kenya as Components of Potting Substrate. ***World App Sci J., 7 (8): 1016-1022. ISSN 1818-4952.***
- 8) **Andika D.O**, Abukutsa-Onyango M.O, Onyango J.C and Stutzel H. **(2009)**. Growth Characteristics of Bambara groundnuts (*Vigna subterranea*) and NERICA rice (*Oryza sativa*) Under Intercropping system. ***Am-Euras. J. Agric. And Environ. Sci., 6 (5): 550-556. ISSN 1818-6769***