

Curriculum Vitae

Biodata:

Full Name: **Prof. Joshua Ondura Ogendo, PhD**
Date and Place of birth: **12th December 1963**
Marital status: **Married with 3 adult children (2 boys, 1 girl)**
Religious affiliation: **Christian**
Proposed position: **International Food Security Expert**
Key Qualifications & career objective: **PhD in Agronomy (Stored Product Entomology)**



Prof. Joshua O. Ogendo is an Associate Professor of Crop Protection (Stored Products Entomology) and Dean, Faculty of Agriculture, Egerton University. Prof. Ogendo holds PhD degree in Agronomy (Crop Protection) from Egerton University (2008), MSc degrees in Agronomy and Grain Storage Management from University of Nairobi (Kenya; 1992) and University of Greenwich (UK; 2001), respectively and a Bachelor of Science degree in Agriculture from University of Nairobi, Kenya (1988). Prof Ogendo has wealth of experience in participatory adaptive research and consultancy services focusing on bio-intensive pest management, enhanced food and nutrition security and livelihoods in smallholder agriculture. Over the past decade, Prof Ogendo has found niche in bio-prospecting for botanical pesticides for bio-control of pre- and post-harvest insect pests of staple food crops. In the recent years (2009-2014), he has widened his research and consultancy domain to span neglected crops (cassava, sweet potatoes, sorghum, and indigenous vegetables), climate change and agro-biodiversity. He is currently involved, as PI and collaborator, in six (6) research projects, funded by African Union, EAAPP/World Bank, KAPAP/World Bank, RUFORUM and Austrian Development Cooperation, in agronomy and related disciplines with particular focus on botanical pesticides, climate change water related vulnerabilities, neglected crops (e.g. cassava, sorghum) and agro biodiversity. Prof Ogendo is a prolific scholar with 23 scientific publications in refereed journals and two (2) book chapters. He is currently the Interim Chair, Pesticidal Plant Technologies Network (PEPTEN), a recently registered national NGO and member of six (6) professional associations. He has successfully supervised three (3) MSc students and currently supervising 4 MSc and 4 PhD student thesis researches in agronomy (crop production, crop protection, plant breeding and weed science), horticulture, stored products entomology (botanical pesticides) and agriculture and rural innovation studies. In addition to his professional call, Prof Ogendo is currently the Coordinator, Chuth Ber Dispensary; Chairman, BOG, Akwakra Mixed Secondary School and Patron, Akwakra Primary School all in Rachuonyo North District, Homa Bay County.

Education Background:

Year	Degree	Institution
2008	PhD Agronomy (Stored Product Entomology)	Egerton University, Kenya
2001	MSc Grain Storage Management	University of Greenwich, UK
1992	MSc Agronomy (Weed Science)	University of Nairobi, Kenya
1988	BSc Agriculture	University of Nairobi, Kenya
1983	Kenya Advanced Cert of Education (A Level)	Kakamega High School
1981	Kenya Certificate of Education (O Level)	Ringa Sec. School, Nyanza
1977	Certificate of Primary Education	Akwakra Pri. School, Nyanza

Employment/ Experience Record:

Year	Employer	Position/Duties
28 th Nov 2014- Present	Egerton University	Assoc. Professor and Dean, Faculty of Agriculture (FOA)
April 4, 2013- 27 th Nov 2014	Egerton University	Assoc. Professor and Chairman, Dept of Crops, Horticulture & Soils
April 9, 2009 – Apr 3, 2013	Egerton University	Senior Lecturer and Chairman, Dept of Crops, Horticulture & Soils;
Nov 2002- Apr 8, 2009	Egerton University	Lecturer, Dept of Crops, Horticulture & Soils
Jul 1997- Nov2002	Egerton University	Assistant Lecturer, Department of Agronomy, Egerton University;
Sept 1991- Jun1997	CMRT Project, Egerton University	Assistant Trainer
1990-1991	TSC	Graduate Teacher, Dr Aloo Gumbi Sec School, Kisumu

Publications:

(a) *Refereed scientific journal papers:*

- Ochola, S.O., **Ogendo, J.O.**, Wagara, I.N., Ogwenyo, J.O., Nyaanga, J. G., Ogayo, K.O. (2015). Antifungal activity of methanol extracts of *Leonotis nepetifolia* L. and *Ocimum gratissimum* L. against Ascochyta blight (*Phoma exigua*) on French bean. *Asian Journal of Plant Pathology*, 2015. ISBN 1819-1541/ DOI: 10.3923/ajppaj.2015 (1st Online 21.3.2015).
- Kange, A.M., Cheruiyot, E.K., **Ogendo, J.O.**, Arama, P.F., Ochola, S.O. (2014). Pre- and post-harvest factors affecting sorghum production (*Sorghum bicolor* L. Moench) among smallholder farming communities. *International J. Agronomy and Agricultural Research* **5(4)**: 40-47.
- Sola P, Mvumi B. M., **Ogendo J. O.**, Mponda O., Kamanula J. F., Nyirenda S. P., Belmain S. R. and Stevenson P. C. (2014) Botanical pesticide production, trade and regulatory mechanisms in sub-Saharan Africa: making a case for plant-based pesticidal products. *Food Security* (First Online at SpringerLink on 29.4.2014; In Press) DOI 10.1007/s12571-014-0343-7.
- Ogendo, J.O., Lukhoba, C.W., Bett, P.K., Machocho, A.K. (2013) (Editors)** Proceedings of the First Intern. Conference on Pesticidal Plants, Vol. I [Aug. 2013]. ISBN: 978-9966-033-00-0.

5. **Ogendo, J.O.**, Deng, A.L., Omolo, E.O., Matasyoh, J.C., Tuey, R.K., Khan, Z.R. (2013) Management of stem borers using selected botanical pesticides in a maize-bean intercropping. *Egerton Journal Science and Technology* **13**: 21–38.
6. Kamatenesi-Mugisha, M., Buyungo, J.P., Ogwal, P., Kasibante, A., Deng, A.L., **Ogendo, J.O.**, Mihale, M.J. (2013) Oral acute toxicity study of selected botanical pesticide plants used by subsistence farmers around the LVB. *African J. of Environ. Scie. & Tech.*, **7(3)**:93-101
7. Chebet, F., Deng, A.L., **Ogendo, J.O.**, Kamau, A.W., Bett, P.K. (2013) Bioactivity of selected plant powders against *Prostephanus truncatus* HORN (Coleoptera: Bostrichidae) in stored maize grains. *Plant Protection Science*, **49(1)**: 34-43..
8. Igogo, J.M., **Ogendo, J.O.**, Kariuki, S.T., Otake, D.O. (2011) Insecticidal, antifeedant and repellent effects of *Tephrosia vogelii* Hook. and *Lantana camara* L. aqueous crude extracts against Golden Flea Beetle (*Apthona whitfieldi* Bryant) in *Jatropha* (*Jatropha curcas* L.). *Biopesticide International* **7(2)**: 93-103.
9. **Ogendo, J.O.**, Deng, A.L., Kostyukovsky, M., Ravid, U., Matasyoh, J.C., Omolo, E.O., Kariuki, S.T., Kamau, A.W., Bett, P.K., Shaaya, E. (2011) Biocontrol potential of selected plant essential oil constituents as fumigants of insect pests attacking stored food commodities. *Baraton Interdisciplinary Res.Journal* **1(1)**: 13-19. (ISSN 2079-4711)
10. Wambua, L.M., Deng, A. L., **Ogendo, J.O.**, Owuochi, J., Bett, P.K. (2011) Toxic, antifeedant and repellent activity of aqueous crude extracts of *Tephrosia vogelii* Hook on the larval stages of *Helicoverpa armigera* Hubner *Baraton Interdisciplinary Research J.* **1(1)**: 19-29.
11. Mihale, J.M., Deng, A.L., Selemani, H.O., Mugisha-Kamatnesi, M., Kidukuli, A.W., **Ogendo, J.O.** (2009). Use of indigenous knowledge in the management of field and storage pests around Lake Victoria basin in Tanzania. *African J. Environ. Science and Techn.*, **Vol. 3(9)**: 252-259.
12. A.L. Deng, **J.O.Ogendo**, G. Owuor, P.K. Bett, E.O. Omolo, M. Mugisha-Kamatnesi, J.M. Mihale (2009). Factors determining the use of botanical insect pest control methods by small-holder farmers in the Lake Victoria Basin, Kenya. *African J. of Environ.Science and Technology*, **3(5)**: 108-115. [<http://academicjournals.org/AJEST/abstracts/abstract%2020>]
13. **J.O.Ogendo**, M. Kostyukovsky, U. Ravid, J.C.Matasyoh, A. L. Deng, E.O. Omolo, S.T. Kariuki, E. Shaaya (2008). Bioactivity of *Ocimum gratissimum* L. oil and two constituents against five insect pests attacking stored food products. *J. Stored Products Res.*, **44**: 328-334.
14. **J. O. Ogendo**, A.L. Deng, R. K. Tuey, P.K. Bett (2008) Evaluation of bioactivity of *Lantana camara* L. against maize weevil, *Sitophilus zeamais* Motsch. (Coleoptera: Curculionidae) in stored maize grains. *Egerton J. Science and Technology*, **8**: 42-52.

15. Mugisha-Kamatenesi, M., Deng, A.L., **Ogendo, J.O.**, Omolo, E.O., Mihale, M.J., Otim, M., Buyungo, J.P., Bett, P.K. (2008). Indigenous knowledge of field insect pests and their management around lake Victoria basin in Uganda. *African J. of Environmental Science and Technology*, **2(8)**: 342-348.
16. **Ogendo, J.O.**, Omolo, E.O., Deng, A.L., Matasyoh, J.C., Tabu I.M. (2006) Field grain losses and insect pest management practices in subsistence agriculture: Farmers' perceptions and practices in Western Kenya. *J. Agric., Sci. & Technology*, **8(1)**: 24-42.
17. Matasyoh, J.C., Bendera, M.M., **Ogendo, J.O.**, Omollo, E.O., Deng, A.L. (2006) Volatile leaf oil constituents of *Ocimum americanum* L. occurring in western Kenya. Short Communication. *Bulletin of Chemical Society of Ethiopia*, **20(1)**: 1-4.
18. **J.O. Ogendo**, S.R. Belmain, A.L. Deng, D.J. Walker (2005) Efficacy of *Lantana camara* L. and *Tephrosia vogelii* hook against *Sitophilus zeamais* (Coleoptera: Curculionidae) in stored maize grains. *Acta Horticulturae* (ISHS) 679: 137-143. [http://www.actahort.org/books/679/679_16.htm].
19. **Ogendo, J. O.**, Deng, A. L., Belmain, S. R., Walker, D. J., and Musandu, A.A.O. (2004) Effect of ground powders of *Lantana camara* L. and *Tephrosia vogelii* Hook on the quality parameters of treated stored maize grains. *J. Food Techn. in Africa*, **9(1)**: 29-35.
20. **Ogendo, J. O.**, Deng, A. L., Belmain, S. R., Walker, D. J., Musandu, A. O. and Obura, R. K. (2004) Pest status of *Sitophilus zeamais* Motschulsky (Coleoptera: Curculionidae), control methods and constraints to safe on-farm maize grain storage. *Egerton J. Science and Techn. Series 5(1)*: 175-193.
21. **Ogendo, J. O.**, Belmain, S. R., Deng, A. L., and Walker, D. J. (2003) Comparison of toxic and repellent effects of *Lantana camara* L. with *Tephrosia vogelii* Hook and a synthetic pesticide against *Sitophilus zeamais* Motsch. in maize grain storage. *Insect Science & Its Application*, **23(2)**: 127-135.
22. Njoka, E.M., Wanjogu, R.K., **Ogendo, J.O.**, Ndirangu, C.M., Njoroge, J.M. (2002) Effect of tillage methods on the growth and grain yield of lowland rice in Kenya. *Agricultura Tropica et Subtropica*, **35**: 103-109.
23. Musandu, A.O., **Ogendo, J.O.** (2001) Response of Common bean to *Rhizobium* inoculation and fertilizers. *The Journal of Food Technology in Africa*, **6(4)**: 121-125.

(b) Books/ Book chapters:

24. Kosgey, I.S., Maina, J.N., **Ogendo, J.O.** (2011) Module 10: Climate Change and Agrobiodiversity. In: Mungai, N.W. (ed.) Agrobiodiversity Conservation & Sustainable Use in Enhancing Food Security [A Training Manual] Egerton Univ. with FAO-Netherlands Partnership Program. Tonaz Ltd, Nbi, Kenya. ISBN: 996605353-0. Pp96-100.
25. **Ogendo, J.O.**, Deng, A.L., Birech R.J., Bett, P.K. (2012) Book Chapter 27: Plant-based products as control agents of stored-product insect pests in the tropics. In: Bhat, R., Alias, A.K., Paliyath, G. (Eds)

Progress in Food Preservation Technology. Wiley-Blackwell Publishers. P581-602. ISBN: 978-0-470-65585-6.

(c) Outreach/ extension publications:

1. **Ogendo, J.O., Deng, A.L., Omolo, E.O., Matasyoh, J.C., Tabu, I.M. (2003)** Grain Pests Management Practices in Subsistence Agriculture: A Case of farmers in Suba District, Nyanza Province, Kenya. Farm Survey Report. (AICAD Grant No. AICAD/RD-07/SED/02-001).
2. **Ogendo, J.O., Deng, A.L., Omolo, E.O., Matasyoh, J.C., Khan, Z.R., Tuey, R.K. (2003)** Management of grain pests through manipulation of scientifically rationalized indigenous non-chemical options: A case study of subsistence farmers in Western Kenya. AICAD Research Mini-Reviews, Vol.1: 9-13. October 1, 2003.
3. **Ogendo, J.O., Deng, A.L., Omolo, E.O., Matasyoh, J.C., Tabu, I.M. (2004)** Management of grain pests through manipulation of scientifically rationalized indigenous non-chemical pesticides. AICAD Research Final Reports' Abstracts-Pilot Phase Vol.1: 11-13. Jan. 2004.

Honours and Awards:

(a) Study Awards

1. Government of Kenya (1985-1988). BSc Agriculture, University of Nairobi (UoN).
2. Minimum Tillage Project (PI: Prof. R. W. Michieka; 1990-1992). MSc Agronomy, UoN.
3. Association of Commonwealth Universities and the University of Greenwich, UK, shared scholarship (1999-2001). MSc Grain Storage Management.
4. Egerton University (2005-2008; Tutition waiver). PhD Agronomy (Stored Product Entomology).

(b) Grant and Other Awards

Granting Body (Donor) / Years	Grant Value	Title of award
1. RUFORUM, 2014-2016	USD 65,000.00	Blackberry germplasm collection, characterisation and breeding for commercial production in Kenya. (Call ID:RU/CGS/CRG/30/03/14; RU/GRG/03/14-017). PI: Dr R M Gesimba; CRs: Dr P Korir, Prof. J O Ogendo
2. African Union, 2012-2015	Euro 620,893.10	Limiting impact of CBSD on smallholders, women and cassava value chain
3. EAAPP, 2012-2015	KES 16M	Quality postharvest handling, value addition and marketing of cassava products for food security and wealth creation
4. RUFORUM, 2012-14	USD 59,882.00	Botanical pesticides for bio-control of spider mites in French beans
5. KAPAP/ World Bank; 2011-2014	KES	Enhancing productivity & economic value of indigenous vegetables
6. KAPAP/ World Bank; 2011-2014	KES 5.7M	Enhancing sorghum production, processing and marketing for improved smallholder incomes and livelihoods in Kenya.
7. Austrian Development Cooperation, 2011-14	Euro 86,000.00	Strengthening Universities Capacities for mitigating climate change induced water vulnerabilities in East

		Africa (WATERCAP).
8. European Comm., 2009-2013	€ 989,204.00	African Dryland Alliance for Pesticidal Plant Technologies (ADAPPT) Network
9. Embassy of Japan, Nairobi, 2009-2010	USD 79,468.00	Construction of maternity and VCT wings and 50 M ³ underground water tank at Chuth Ber Dispensary, Rachuonyo North District
10. L. Victoria Res. Initiative (VicRes), 2006-2012	USD 54,000.00	Ethnobotanical products for insect pest management in subsistence agriculture in the LVB region
11. USAID-CDR; 2004-2008	USD 122,572.00	Kenyan plant constituents for biological insect control
12. AICAD, 2002-2005	USD 21,000.00	Management of grain pests through manipulation of scientifically rationalized indigenous non-chemical options

Professional qualifications and Certificates of Participation/Attendance

1. Certified ISO 9001: 2008 QMS Lead Auditor (KEBS, June 2012)
2. Certified Internal Quality Auditor (KEBS, Nov 2009)
3. Certificate on Transformative Leadership (KIA, March 2012)
4. Training on writing policy briefs for agricultural researchers (Egerton Univ., June 2010)
5. Certificate of Participation in an E-Learning Capacity Building Course on Developing and Publishing of Digital Teaching and Learning Materials (Futuristic Ltd, June 2011; RUFORUM, January 2010)
6. Certificate of Participation in a Specification Writing Workshop (Egerton Univ., Feb 2010)
7. Certificate of Participation in the CTA Executive Training on Monitoring and Evaluation of Information Projects, Products and Services: Using the SMART Toolkit (CTA, Sept 2012).
8. Certificate of Participation; workshop on Complaints Handling Mechanisms (Egerton Univ., March 2012)
9. Certificate of Participation in the First International Conference on Pesticidal Plants, 21-24 January 2013, *icipe*, Nairobi, Kenya. (Dr Ogendo was the Chair, National Organizing Committee).
10. Certificate of Merit for Distinguished service to BOG, Akwakra Mixed Sec School and as Patron, Akwakra Pri School, both in Rachuonyo North District.
11. Certificate of Participation in the Research Management Training Programme (Egerton University- University of East Anglia, October 2012).
12. Certificate of Participation in Training on Research Proposal and Scientific Writing (Egerton Univ. 2010; ADAPPT-Zambia, 2011)
13. Certificate of Participation in CCAA-Supported conference on Pastoralism and Climate Change Adaptation in Africa (Egerton Univ., May 2010).
14. Certificate of Participation in a University Teaching Methods Course (Egerton Univ., 2001)

15. Certificate of Participation; Workshop on Information Literacy (Egerton Univ., Oct 2012)
16. Certificate of Participation; Workshop on Student Academic Advising (Egerton Univ., 2001; Feb 2009)
17. Certificate of Participation in a workshop on Sustainable Agriculture and Rural Development (Baraka Agric College-Misereor, July 2008).

Professional affiliations:

1. Member, Association for African Medicinal Plants Standards (AAMPS).
2. Member, Soil Science Society of East Africa
3. Member, Entomological Society of East Africa
4. Member, Natural Products Research Network for East and Central Africa (NAPRECA)
5. Member, Society for Economic Botany-Kenya Chapter
6. Interim Chairman, Pesticidal Plants Network, Kenya (PEPTEN)
7. Country Coordinator, Kenya and WP4 Leader, African Dry land Alliance for Pesticidal Plant Technologies (ADAPPT).
8. Member, Horticultural Society of Kenya

Language proficiencies:

Self-assessment	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Kiswahili	Average user	Average user	Good user	Average user	Average user



Signature

Date 23rd March 2015