**CURRICULUM VITAE– DR. ALBERT LUVANDA MAKEE**

**PICTURE RESEARCHER ID:**

**SCOPUS ID:**

**ORCHID: 0000-0001-7047-6301**

**Position: RD/***PRO – Natural Resource Economist*

**1 PERSONAL INFORMATION**

* 1. NAME: Dr. Albert Luvanda Makee
  2. ADDRESS: P.O. Box 892-90200 KITUI
  3. PHONE +254 720 829870
  4. EMAIL ADDRESS: [aluvanda@kefri.org](mailto:aluvanda@kefri.org) or
  5. NATIONALITY: Kenyan
  6. GENDER: Male

**2. QUALIFICATIONS**

**2.1 Academic Qualifications**

2019 PhD (Agricultural Economics) Kenyatta University

2005 M. Phil (AREM) Moi University

1990 B.Sc. (WST) Moi University

1986 K.A.C.E St. Mary's School, Yala

1984 K.C.E Cheptenye High School

* 1. **Key Competencies**

Forest Products, markets, social, economic and environmental resource economics and Information Communication Technology (MS Word, MS Excel, MS. Power Point, SPSS, STATA**)**

**2.3 Other Courses**

* National Youth Service Pre University Training Programme (15th May 1987)
* Country-Focused Training Course on Extension at Forestry and Forest Products Research Institute and other related organizations from 2nd – 27th June 2014 in Japan
* Strategic Leadership Course at the Kenya Institute Management from 21st – 25th Nov 2011
* The Technology and Sustainable Development Policy Analysis Training Course at African Centre for Technology Studies (28th Nov 1996)
* GIS and Remote Sensing fore Resource Mapping and Planning Training Couse at CETRAD , Nanyuki-Kenya (3rd – 21st March 2014)
* Markets Analysis and Enterprise Development (2010 and 2011)
* Basic Occupational; Safety and health Course (12th – 13th Apr 2011)
* The marketing Analysis and Development Training Course held at The New Tea Tot, Machakos from 5th – 14th March 2012
* Investment management seminar for Trustees on Thursday 11th – Friday 12th February 2010
* Performance Management Training 5th – 7th November 2014
* Fire Marshal Course at Kitui (8th May 2014)
* Training Couse for ISO-14001:2004 EMS held at Kitui from 27th – 30th Oct 2010
* ToT Course held at Kitui from 14th – 19th Nov 1993
* Training Course on Applied Biometrics, Statistical Data Analysis and Experimental Planning and SPSS Statistical Analysis Programme (Windows Version) held from 1st -10th March 1995
* Training Couse of Research and Extension methods in Alley Farming held at KEFRI HQTS, Nairobi-Kenya from 12th – 23rd Oct 1994
* ToT Course held at Mweiga – Nyeri from 8th – 10th Nov 1995.
* Training Course on Participatory Rural Appraisal (PRA) Techniques for Alley farming held at KEFRI HQTS, NAIROBI-KENYA from 12th -23 Sept 1994
* Senior Management Course at Kenya school of Government, Embu (8th March 2019)

**3. EMPLOYMENT HISTORY**

* **2011-2021:** Principal Research Officer – Kitui Regional Research Programme
* **2006-2011:** Senior Research Officer – Baringo Forest Research Station
* **2003-2006:** Senior Research Officer – Kitui Regional Research Centre
* **1998 - 2003:** Research Officer I- Socio-economics and Policy Studies, Muguga
* **1994 - 1998:** Research Officer II- Socio-economics and Policy Studies, Muguga
* **Oct, 1992 - Aug, 1994:** Assistant Research Officer - Socio-economics and Policy Studies Division, Muguga.
* **Aug, 1990 to Oct, 1992:** Assistant Research Officer, Forest Products Research Programme, Karura.

**4. ADMINSTRATIVE RESPONSIBILITY**

* **2018 - To date:** Regional Director/Principal Research Officer (Dryland Eco-Region Research Programme-Kitui)
* **2011 - 2018:** Deputy Regional Director/Principal Research Officer (Dryland Eco-Region Research Programme-Kitui)
* **2007-2011:** Officer in charge/Senior Research Officer – Natural resource economist, Baringo Forestry Research Station

**5. PUBLICATIONS**

* 1. **5.1 Journal papers**
* **Luvanda A.M**., Macharia I.N., Chikamai B.N. and Wambugu S.K. (2017). Gum opoponax and myrrh market structure, conduct and performance for Wajir County, Kenya. Octa Journal of Environmental Research. Oct. Jour. Env. Res. Vol. 5(1): 041-052. Available online http://www.sciencebeingjournal.com
* **Luvanda A.M**., Macharia I.N., Chikamai B.N. and Wambugu S.K. (2017). Socio-economic factors influencing collection of gum myrrh and opoponax from the wild in Wajir County, Kenya. International journal of recent scientific research. 8(5): 17165-17172. DOI: <http://dx.doi.org/10.24327/ijrsr.2017.0805.0296>
* **Luvanda, A. M.** and E. A. Indai (2016).Case studies on the application of Drip Irrigation in Horticultural Crops Production in Ukambani, Kenya. *International Journal of Applied and Pure Science and Agriculture (IJAPSA). Volume 02, Issue 06, [June- 2016]: 195-207.*
* M. Okeyo, J. Nicholus, **A. Luvanda,** A. Mwamburi, J. K. Ndufa, N. Bor,andD. Munyao (2016). Extension Approaches in the Promotion of *Melia Volkensii* in Lower Eastern, Kenya. *International Journal of Applied and Pure Science and Agriculture (IJAPSA) Volume 02, Issue 06, [June- 2016]: 268-279.*
* **Luvanda A.M.**, R. Wangeci, J. Nicholus, P. Mwendwa, **D. Muchiri**, and **M. Sheikh** (2016). The ecological and socio-economic importance of faidherbia albida in taita and taveta, Kenya. *oct. jour. env. res. vol. 4(1): 001-007. octa journal of environmental research Jan – Mar., 2016.*
* **Luvanda, A.M.**, Chikamai B.N., Wambugu S.K. and Macharia I. N. (2016). Occurrence and Distribution of *Commiphora Holtziana* and *C. Myrrha* in Wajir County, Kenya.The International Journal of Science & Technoledge. (ISSN 2321 – 919X). Vol 4 Issue 6: 66-74.
* **Luvanda A**. **M.,** Kitheka, E., Oduor, N., Kyalo, E. M. and Githiomi, J. (2016). Impact and Assessment of Charcoal Marketing System Through Community Associations in Kitui County, Kenya. *Apr. – Jun., 2016* International Peer-Reviewed Journal ISSN 2321 3655 *Oct. Jour. Env. Res. Vol. 4(2): 086-091.*
* C. Wekesa, **A. M. Luvanda**, M. O. Muga, B. N. Chikamai and P. M. Makenzi (2013)**.** Market Chain Analysis of Gum Arabic Trade in Kenya. *Octa Journal of Environmental Research April - June, 2013 Vol. 1(2): 93-106.*ISSN 2321-3655
* Josephine Kamene Musyoki, **Albert Makee Luvanda** and Emily Mumbua Kitheka (2012).Sources of natural dyes and tannins among the Somali community living in Garissa County, Kenya. *International Journal of Biodiversity and Conservation* Vol. 4(12): 400-410, September 2012.
* Wekesa, C., P. Makenzi, B. N. Chikamai, J. K. Lelon, **A. M. Luvanda** and M. Muga (2009). Gum arabic yield in different varieties of Acacia senegal (L.) Willd in Kenya. African Journal of Plant Science. *African Journal of Plant Science* Vol. 3 (11), pp. 263-276, November, 2009
* C. Wekesa, P. M. Makenzi, B. N. Chikamai, **A. M. Luvanda** and M. O. Muga (2009).Traditional Ecological Knowledge associated with Acacia senegal (L.) Willd management and Gum Arabic Production in Kenya. *International Forestry Review*.
* **Luvanda, A.M.,** Mulugeta, L.,Choge, S.K., Chikamai, B.N., Alhedy, M.A. and Mbwambo, M.A. (2007).The role of Boswelia species and frankincense in the livelihood of local communities in Eastern Africa. *Journal of Discovery and Innovation*, 2007; Vol. 18 (AFORNET Special Edition No. 4).

1. Kabaka, W.M., **Luvanda A.M.** and O.I. Ndiege **(2002).** Bioprospecting of *Mondia whytei* for enhanced biodiversity conservation and increased rural household income in Kenya. *Discovery and Innovation journal*. Special edition. 14:49-56.·April 2002.
   1. **Books**

* **Luvanda, A.M.** (2005).Socio-economic factors influencing environmental degradation in Kakamega forest Complex, Kenya: The case of fuel wood exploitation. M Phil Thesis, Moi University. Unpublshed.
* **Luvanda A.M**., Musyoki J., Cheboiwo J., L. Wekesa and Ozawa M. (2015). *An assessment of the socio-economic importance of Melia volkensii based enterprises in Kenya.* KEFRI, Kenya. 56 pg.
* Ongugo, P.O. Sigu, G.O. Kariuki, J.G. **Luvanda, A.M.** andKigomo, B.N. **(2000).** Production to consumption System: A case Study of the Bamboo Sector in Kenya. KEFRI/INBAR PROJECT, April 2000. 46 pp. Unpublished
* **Luvanda, A.M. (1996).** Towards community based conservation of biological diversity: Policy and institutional options for Kenya. Policy paper prepared as a requirement for an ACTS Training course on ‘Technology, Environment, and Sustainable Development’. 1st September to 30th November, 1996. Nairobi - Kenya. Unpublished.
* Ochieng D., **Luvanda A.M.,** Wekesa, C., Mbuvi M.T.E and Ndalilo L. (2017). Biodiversity status of Arabuko Siokoke Forest, Kenya. Kenya Forestry Research Institute, Nairobi – Kenya. 66 pgs.
  1. **Book Chapter**
* Mbuvi M.T.E., **Makee A.L**. & Mwendwa K.A. (2003)**.** The status of mangrove exploitation and trade along the Kenya Coastline. In. Hoorweg J. and Muthiga N. Recent Advances in Coastal Ecology, studies from Kenya. African Studies Centre. Leiden, NL. Pp 257 – 267.
* Ndalilo L., Mbuvi M.T.E and **Luvanda, A.M.** (2017). Utilisation and governance of Arabuko Sokoke Forest. **In**: Ochieng, D., Luvanda,A.M., Wekesa, C., Mbuvi M.T.E and Ndalilo L. (2017). Biodiversity status of Arabuko Siokoke Forest, Kenya. Kenya Forestry Research Institute, Nairobi – Kenya. pp 47-58.
  1. **Technical Notes /Protocols/Guidelines**
* **Luvanda A**., Ogawa, S., Ndufa, J.K. and Musyoki, J. (2016). Demonstration of improved Melia seed and seedlings. **In:** Kamondo, B.M., Kariuki, J.G., Luvanda A.M., Muturi and Ochieng D. 2016. (Eds). Guidelines on production, distribution and use of improved Melia seed and seedlings in the drylands of Kenya. KEFRI, Kenya. pp. 26-28.
* **Luvanda A**., Ogawa, S., Takeda, Y., Karuiki, J. and Kamondo, B. (2016). Distribution system of improved Melia seed and seedlings and capacity building. In: Kamondo, B.M., Kariuki, J.G., Luvanda A.M., Murturi and Ochieng D. 2016. (Eds). Guidelines on production, distribution and use of improved Melia seed and seedlings in the drylands of Kenya. KEFRI, Kenya. pp 29-32.
* Kamondo, B., Kariuki, J., Muturi, G. and **Luvanda A.** (2016). Institutional and legal issues applicable in prodiction, distribution and use of improved Melia seed and seedlings. In: Kamondo, B.M., Kariuki, J.G., **Luvanda A.M.,** Murturi and Ochieng D. (2016). (Eds). Guidelines on production, distribution and use of improved Melia seed and seedlings in the drylands of Kenya. KEFRI, Kenya
* **Luvanda A.M.,** Musyoki J., Cheboiwo J., L. Wekesa and Ozawa M. (2015). An assessment of the socio-economic importance of Melia volkensii based enterprises in Kenya. KEFRI, Kenya. 56 pg.
* **Luvanda, A. M.** (2016). On-farm Tree Planting and Management Guidelines for Medium to High Potential Areas of Kenya. *Journal of Forest and Environmental Science* 32 (4): 392-399, November, 2016. <https://doi.org/10.7747/JFES.2016.32.4.392>

**5.5 Policy Briefs N/A**

**6. RESEARCH**

**6.1 Completed**

* AAS: Frankincense
  1. **Ongoing research**
* NRF: Terminalia
* NRF: Smart Agriculture
  1. **Mentorship and supervision**
* Dr. Chemuku Wekesa (Internship)
* Ms. Sylvia Uchi Mwalewa (Scientist, Kitui)
* Mr. Elias Hassan (ARD, Garissa)
* Ms. Amina Aden (Scientist, Garissa)

**7. INNOVATIONS AND PATENTS (Intellectual Property): N/A**

1. **CONFERENCES/SEMINARS/WORKSHOPS**

**8.1 Presentation of Papers at Academic and Professional Conferences**

* **Luvanda, A.M.,** Martim, H.K. and Ongugo, P.O. (2004).Socio-economic factors influencing environmental degradation in Kakamega forest in Kenya: The case of fuelwood exploitation. In: Muchiri, M.N., Kamondo, B., Tuwei, P. and Wajiku, J. (Eds). Recent advances in forestry research and technology development for sustainable forest management. Proceedings of the 2nd KEFRI Scientific Conference. 1st – 4th November 2004. Kenya Forestry Research Institute Headquarters. Muguga, Kenya. pp 225-233.
* Kabaka, W.M. and **Luvanda A.M. (1998 ).** Commercial utilization of an indigenous plant species *Mondia whytei* in Kenya. Paper presented international conference on exploring trade opportunities in Non-timber products held on 7th-12th June 1998 at Egerton University.
* Musyoki, J.K., **Luvanda, A.M.** and Kithekai, M.E. (2006).Potential Sources of Natural dyes for the handcraft industry in Kitui District, Kenya. In: Muchiri, M.N., Kamondo, B., Tuwei, P. and Wajiku, J. (Eds). Proceedings of the 3rd KEFRI Scientific Conference. 6th – 9th November 2006. Kenya Forestry Research Institute Headquarters. Muguga, Kenya. pp 180-188.
* **Luvanda, A.M.,** Choge, S.K. and Chikamai, B.N. (2006).The role of Boswelia species in the livelihood of local communities in Wajir District, Kenya. In: Muchiri, M.N., Kamondo, B., Tuwei, P. and Wajiku, J. (Eds). Proceedings of the 3rd KEFRI Scientific Conference. 6th – 9th November 2006. Kenya Forestry Research Institute Headquarters. Muguga, Kenya. pp 297-304.
* Kigomo, J.N., **Luvanda A.M.** and Epodo, L. (2009). Experiences of Management and Utilization of Invasive Prosopis juliflora in Turkana District. In: Muchiri, M.N., Kamondo, B., Tuwei, P. and Wajiku, J. (Eds). Recent Advances in Forestry Research for Environmental Conservation, Improved Livelihood and economic development. Proceedings of the 4th KEFRI scientific conference held at KEFRI Headquarters, Muguga. 6th to 9th October 2008. pp. 172-181.
* Ndufa, J.K., Mwalewa, S.U., **Luvanda, A.M.** and Kiptot, E. (2018). Adoption of Forestry/Agroforestry Technologies in the Dryland of kenya: A case study of SOFEM, ARIDSAK and ISFP Extension Models. In: 5th KEFRI Scientific Conference on Contribution of Forestry Research to Sustainable Development. 17th – 19th April, 2018. Kenya Forestry Research Institute Headquarters, Muguga, Kenya.
  1. **Participation in Workshops/Conferences (N/A)**
* AFORNET Workshop on Scientific writing (30th Oct 2006)
* FORREMS OCA Tool development and field Testing workshop held in Turtle Bay Watamu, January 16-22 2005
* FESD/SIDA Workshop on Successful Strategies for ASAL Resources management and Conservation from 23rd – 25th Oct 1994
* 2nd KEFRI Scientific Conference on Recent Advances in Forestry Research and Technology development for Sustainable Forest Management. 1st – 4th November 2004. KEFRI Headquarters, Muguga.
* 4th KEFRI scientific conference on Recent Advances in Forestry Research for Environmental Conservation, Improved Livelihood and economic development held at KEFRI Headquarters, Muguga. 6th to 9th October 2008.
* 3rd KEFRI Scientific Conference on Forestry Research in Environmental Conservation, Improved Livelihoods and Economic Development. 6th – 9th November 2006. Kenya Forestry Research Institute Headquarters. Muguga, Kenya.
* 5th KEFRI Scientific Conference on Contribution of Forestry Research to Sustainable Development. 17th – 19th April, 2018. Kenya Forestry Research Institute Headquarters, Muguga, Kenya.
* International Conference on the “Project on Development of Drought Tolerant Trees for Adaptation to Climate Change in Drylands of Kenya”. 13th – 16th February 2017. Kenya Forestry Research Institute Headquarters, Muguga, Kenya.
  1. **Convening/Coordinating Conferences (N/A)**

**9. PROFESSIONAL ENGAGMENT**

**9.1 Training:** N/A

**9.2 Consultancies:** N/A

**9.3 Collaboration with external organizations**

* Enhancing Ecologically Resilient Food Security through Climate Smart Farming Systems in the Semi-Arid Lands of Kenya. SEKU/KARLO/KEFRI NRF PROJECT:

**10. EXTERNAL AND INTERNAL RESEARCH GRANTS**

* NRF: Terminalia brownii
* NRF**:** Smart agriculture
* AAS: Boswellia spp.

**11. LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS: N/A**

11.1 Local: N/A

11.2 Regional: N/A

11.3 International: N/A

**12. AWARDS AND RECOGNITION**

* Outstanding performance in research and development in the year 2012-13
* Certificate of Service as a Trustee under the KEFRI Pension Scheme from 1st July 2005 to 30th June 2017

**13. CONTRIBUTION TO KEFRIs ADVANCEMENT**

* Negotiations on KEFRI Land in Baringo
* Negotiations on KEFRI Land in Wajir
* Up grading of Tiva to a semi-Autonomous Unit
* Initiated the registration process for KEFRI Land in Hola

**14. MEMBERSHIP TO PROFESSIONAL BODIES:**

* Forestry Society of Kenya

**15. REFEREES**

* Dr. Ibrahim N. Macharia

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