

## CV FORMAT – KEFRI SCIENTISTS

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### PICTURE



**RESEARCHER ID**

**SCOPUS ID :**

**ORCHID:**

**Position:** Principal research officer *title: Ecologist*

### 1. PERSONAL INFORMATION

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|---------------------|---|
| 1.1. NAME:          | Gitehi Giathi   |
| 1.2. ADDRESS:       | Box 892, Kitui  |
| 1.3. PHONE:         | 0727 634 779  |
| 1.4. EMAIL ADDRESS: | <a href="mailto:giathig@gmail.com">giathig@gmail.com</a> , <a href="mailto:ggiathi@kefri.org">ggiathi@kefri.org</a> |
| 1.5. NATIONALITY:   | Kenyan  |
| 1.6. GENDER:        | Male  |

### 2. QUALIFICATIONS

#### 2.1. Academic Qualifications

- 2001-2005 MSc. (Natural resources management- (Forestry) Egerton University
- 1987-1990BSc. Forestry (Second class honour-Upper division) Moi University

#### 2.1 Key Competencies

#### 2.2. Other Courses

##### Title

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| • 2012 | Scientific writing course  |
| • 2005 | Data Management, Data analysis and presentation of result                                    |
| • 1996 | Forestry Research (Forestry Genetic) 1996 15weeks, Japan                                     |
| • 1995 | Elementary course in applied biometrics, Statistical data analysis and experimental Planning |
| • 1992 | Multipurpose tree improvement and management   |

### 3. EMPLOYMENT HISTORY

Year	Position	Institution
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2011 to date	Principal Research Officer	KEFRI
2002-2011	Senior Research Officer	KEFRI
1998-2002	Research Officer I	KEFRI
1994-1998	Research Officer II	KEFRI
1990-1994	Assistant Research Officer	KEFRI

#### 4. ADMINISTRATIVE RESPONSIBILITY

#### 5. PUBLICATIONS

##### 5.1. Journal papers

- Kamondo B.M. Kariuki J.G., Nyamongo D.O., **Giathi G.**, Wafula A.W and G.M. Muturi. EFFECT OF TEMPERATURE AND STORAGE DURATION ON VIABILITY OF EAST AFRICAN SANDALWOOD. *East Africa. Agric. For. J.* (Special issue)
- Bala, P, **Giathi G**, Oeba V, Omondi S F, Albert L, and Okeyo M. 2017 Effect of seasonality, graft type and scion characteristics on propagation of *Vitex payos* in the drylands of Kenya. *Journal of Horticulture and Forestry* Vol. 9(6), pp. 49-58,
- **Giathi G**, Machua J, Gathura M, Oeba V, Ingutia C. 2017 The Effect of Indole-3-butyric acid (IBA) Rooting Hormone on the Rooting of Camphor (*Ocotea usambarensis*) Coppice Stem Cuttings. *International Journal of Novel Research in Life Sciences* Vol. 4, Issue 2, pp: (15-21), Month: March – April 2017, [www.noveltyjournals.com](http://www.noveltyjournals.com)
- Karachi, M., **Giathi, G.** and Muchiri, N. M. 2006. Factors Influencing the Natural Regeneration of *Polyscias Kikuyuensis* Summerh In Nyemweru forest-Kikuyu Escarpment, Kenya. *Afr. J. Ecol*, 45, 242-248
- Obiri, J.A.F., **Giathi, G** and Massawe, A. 1994. The effect of Cypress aphid on *Cupressus lusitanica* Orchards, in Kenya and Tanzania *East Africa. Agric. For. J.* 59(3) 227-234

##### 5.2. Books

##### 5.3. Book Chapter

##### 5.4. Technical Notes /Protocols/Guidelines

#### Research Note

- **Giathi, G.,** Oeba, V., O. and Machua, J. 2012. Rooting ability of mature and juvenile stem cuttings of Meru oak (*Vitex fischeri* Gürke) under different rooting media and IBA concentrations
- Mbinga, J., Wamalwa, L. and **Gitehi, G.** 2006. Producing *Pinus Patula* Planting Materials Through Cuttings In Proceeding of the Third KEFRI Scientific Conference: 6-9 November 2006, Muguga.

### Posters

- **Giathi G.,** S. Wairungu and J. Mukami 2012. The status and the Rehabilitation strategy of the degraded KEFRI\_Gachuthi Natural forest. IUFRO-FORNESSA Regional congress & ITTO/AFFForest Policy Day 25-29 June 2012. Nairobi , Kenya
- Oeba V.O., **Giathi, G.** and Mbinga, J. Modelling the rooting ability of *Polyscias kikuyuensis* stem cuttings under different rooting media and Indole-3-Butyric Acid (IBA) concentrations using logistic regression. International Biometric Conference, Dublin, 13-18 July 2008

### Guidelines

- **Giathi , G.** Kamondo, and Kyalo Collection and processing of improved melia seeds in Guidelines on Production and Distribution System for Improved Melia Seeds and Seedlings in the Drylands B., Musyoki, J., Njuguna, J., Takeda, Y., Kariuki, J.G., S. Ogawa, Muturi, G., Kigwa, B. Miyashita, H. and Hanaoka, S. 2016 of Kenya
- **Giathi, G.,** Machua, J. and Bala, P. 2015. Propagation of East African Sandalwood (*Osyris lanceolata*) by Air-layering. Guidelines For Farmers and Extension Agents. KEFRI, Nairobi
- Kamondo, B., **Gitehi, G.,** Chahilu, O., Machua, J. Kagunyu, L., Wafula, L., Bala, P., Njuguna, J., Wakori, S., Maingi, F., and Nyingi, K. 2014. Growing East African Sandalwood Guidelines For Tree Growers; KEFRI, Nairobi
- Kamondo, B., Osore, C., **Giathi, G.,** Kariuki, J. 2012. Collection, handling and germination of *Osyris lanceolata* seeds. Guidelines for farmers and Extension Agents

### 5.5. Policy Briefs

## 6. RESEARCH

### 6.1. Completed

- Development of protocols for handling tree seeds that desiccation intolerant

- Vegetative propagation of indigenous tree species of Kenya (*Osyris lanceolata*, *Ocotea usambarensis*, *Polyscias kikuyuensis*, *Vitex keniensis*, *Vitex payos*)
- Rehabilitation of rangelands in Kitui, Garissa
- Effect of charcoal production on the tree composition and diversity in Kitui County
- The status and the Rehabilitation strategy of the degraded KEFRI\_Gachuthi Natural forest.

## 6.2. Ongoing research

- Propagation of the East African sandalwood: Development of nursery technologies for raising seedlings
- Introduction of Indian Sandalwood: Effect of local host species on the nursery performance
- Domestication of *Terminalia brownie*
- Domestication of potential charcoal producing species in Kitui

## 6.3. Mentorship and supervision

Peter Gachie and Florence Cheronu

## 7. INNOVATIONS AND PATENTS (Intellectual Property)

## 8. CONFERENCES/SEMINARS/WORKSHOPS

### 8.1. Presentation of Papers at Academic and Professional Conferences

#### Conference papers

- **Giathi, G**, Kamondo, B, Njuguna, J.W, Mwangi, S, Kipkoech, N, Ingutia, C.2018. Rooting Sandalwood stem cuttings using low cost technology employed in commercial propagation of *Camellia sinensis*. Paper presented at the 4<sup>th</sup> DeKUT international Conference on science, Technology, Innovation & Entrepreneurship 7<sup>th</sup> -9<sup>th</sup> Nov,2018. DeKUT main Campus, Nyeri
- **G. Giathi**, E. Kitheka, S. Kiama, E. Macharia, M. Mwangi, P. Osano, M. Sheikh, C. Kanyingi, G. Muturi and N. Oduor (2018). Degradation status and rehabilitation intervention potential in Dadaab sub-county, Kenya Paper presented at the 5<sup>th</sup> KEFRI scientific conference as a poster.

- **Giathi, G.**, Kitheka, E., Kiama, S., Sheikh, M., Bala, P., Githiomi, J., Oduor, N., Mwangi, M., and Macharia, E., 2016 . Tree species composition and diversity in areas of high charcoal production in Kitui County: A case in Ikutha and Mwingi sub-Counties. National Conference On Sustainable Land Management.1-4<sup>TH</sup> June 2016 -Nakuru
- Machua , J., Kamondo, B., Mwangi, L., **Giathi, G.**, and Chahilu, O. 2008. Propagation of *Osyris lanceolata* (East African Sandal wood). Proceedibgs of the 4<sup>th</sup> KEFRI Scientific conference. Recent advances in Forestry Research foir environment conservation, Improved livelihood and Economic development. 6 to 9 October 2008KEFRI Headquarters, Muguga
- Omenda, T. O., Kariuki, J. G., Kamondo, B. M., **Giathi, G.** and Kiamba, J. K . 2006. Regenerative Resilience of Tree Species in a Degraded Forest Within Mt Kenya Ecosystem. In Proceeding of the Third KEFRI Scientific Conference: 6-9 November 2006, Muguga
- Mbinga, J., Wamalwa, L. and **Gitehi, G.** 2006. Producing *Pinus Patula* Planting Materials Through Cuttings In Proceeding of the Third KEFRI Scientific Conference: 6-9 November 2006, Muguga.
- **Giathi G.**, Gachathi, F.N.2004.Distribution of *Polyscias fulva* and *P. Kikuyuensis* in Kenya. In Proceeding of the Second KEFRI Scientific Conference: 1-4 November 2004, Muguga
- **Giathi G.**, Karachi,M. and Muchiri , M. 2004. The status of Natural regeneration of *Polyscias Kikuyuensis* in Nyamweru forest Kikuyu Escarpment forest. In Proceeding of the Third KEFRI Scientific Conference: 1-4 November 2004, Muguga
- Kamondo, B.M. and **Giathi, G.** 1999. The status of the Forest genetic resources in Kenya. A paper presented during the AFORGEN Regional Training workshop on conservation and sustainable use of forest genetic resources (FGR).
- **Giathi G.** and Chagala, E. 1996. Lessons learnt from a Mexican Pine species/provenances trial at Londiani, Kenya in The Proceeding of a joint KEFRI-FD National Conference on “The Status of Forest Research and Management in Kenya”. 50-57
- Obala, P.O. and **Giathi, G.** 1996, Growth performance of *Eucalyptus grandis* at Elburgon and Turbo in The Proceeding of a Joint KEFRI-FD National Conference on “The Status of Forest Research and Management in Kenya”. 98-105

## 8.2. Participation in Workshops/Conferences

Year	Title	place
1996	National conference on the “the state of forestry Research and management in Kenya”	Kenya
2004	Second KEFRI Scientific Conference:	Kenya
2006	Third KEFRI Scientific Conference:	Kenya
2008	Fourth KEFRI Scientific conference.	Kenya
2012	IUFRO_FORNESSA Regional congress and ITTO & AFF Forest Policy Day “Forest and Tree Serving the People of Africa and the world”	Kenya
2016	National Conference on Sustainable Land Management	Kenya
2018	Fifth KEFRI Scientific conference.	Kenya

### 8.3. Convening/Coordinating Conferences

## 9. PROFESSIONAL ENGAGEMENT

9.1. Training

9.2. Consultancies

9.3. Collaboration with external organizations

## 10. EXTERNAL AND INTERNAL RESEARCH GRANTS

Include research grants won

- Propagation of Sandalwood for Livelihoods Support, Adaptation to Climate Change and Conservation of its Genepool (NRF-Ksh 16,827,750.00 (Kamondo, B. M, G. Giathi, Omondi, SF)
- Promotion of *Terminalia brownii* propagation for agroforestry, livelihood improvement and resilience to climate change in the drylands of Kenya (NRF -Ksh 19,990,500) (M. Okeyo, G. Giathi, Embu University, Dryland Natural Resources Centre (DNRC))
- Rehabilitation of the Southern Kenya Rangeland (KCSAP-project) Ksh 2 200 000.00)

## 11. LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS

11.1. Local

11.2. Regional

11.3. International

## **12. AWARDS AND RECOGNITION**

## **13. CONTRIBUTION TO KEFRIs ADVANCEMENT**

Generation of various technologies and information in propagation of different trees spp (*Osyris lanceolata*, *Vitex payos*, *Vitex keniensis*, *Warburgia ugandensis*) and their dissemination through various for a such as conferences, field days, agriculture shows. Participation in developing proposals for funding that have been funded such as the “Propagation of Sandalwood and domestications of *Terminalia brownie* (both NRF) and Rehabilitation of Southern rangeland (KCSAP)”

## **14. MEMBERSHIP TO PROFESSIONAL BODIES**

Kenya Forestry society

## **15. REFEREES**

1. Dr Jane Njuguna

Chief Research Scientist/Senior Deputy Director Research and Development-Kenya Forestry Research Institute (KEFRI), P.O Box 20412 - 00200, Nairobi: Mobile: +25472281232341 Email: [jwknjuguna@yahoo.com](mailto:jwknjuguna@yahoo.com) , [jnjuguna@kefri.org](mailto:jnjuguna@kefri.org)

2. Dr. Albert M, Luvanda

Principal Research Scientist/Regional Director, Dryland Ecoregion Research Program (DERP)-Kitui Kenya Forestry Research Institute (KEFRI), P.O Box 892 - 90200, Kitui. Office: Mobile: +254 Email: [luvandaa@gmail.com](mailto:luvandaa@gmail.com), [aluvanda@kefri.org](mailto:aluvanda@kefri.org)