

CV FORMAT – KEFRI SCIENTISTS

PICTURE



RESEARCHER ID :

SCOPUS ID :

ORCHID:

Position: Research Scientist 1 - Agroforestry

1. PERSONAL INFORMATION

1.1. NAME : PETER GACHIE KIMANI

1.2. ADDRESS: P.O. BOX 20412-00200 NAIROBI

1.3. PHONE : 0721809809

1.4. EMAIL ADDRESS: pgachie@yahoo.com or pgachie@kefri.org

1.5. NATIONALITY: KENYAN

1.6. GENDER : MALE

2. QUALIFICATIONS

2.1. Academic Qualifications

Year of study

Qualifications

1999 - 2003: Master of Philosophy (Agroforestry) degree, Moi University.

1993-1997: Bachelor of Science (Forestry) second class honors upper division; Moi University.

1991: Kenya Certificate of Secondary Education (K.C.S.E); Moi High School (NDEFFO).

1979-1986: Kenya Certificate of Primary Education (K.C.P.E); Bavuni Primary School.

2.2. Key Competencies

2.3. Other Courses

3. EMPLOYMENT HISTORY

<u>Year</u>	<u>Experience</u>
2019 -Todate	Research scientist I, Kenya Forestry Research Institute, KEFRI, Muguga.
2017 - 2019	Officer in Charge, Kenya Forestry Research Institute, KEFRI, Kakamega Sub-Centre
2014 - 2017	Research scientist II, Kenya Forestry Research Institute, KEFRI, Muguga.
2012 - 2014	Part time lecturer, Egerton University, Dept. of Biological Sciences & Natural Resources Management.
2009-2012	Scientific Assistant/ Consultant, World Agroforestry Centre, ICRAF.
2009	Private Herbalist/ Researcher/ Consultant.
2004 -2008	Project Officer / Volunteer, Tree Planting & Food Security; Civic & Environmental Education; Advocacy & Networking, the Green Belt Movement International.
2002-4	Lecturer Assistant - Moi University, Dept. of Forestry.
2001	Participant - Kenya energy demand and supply survey in Uasin Gishu and Nakuru Districts.
1999 & 2009	Supervisor / Senior Supervisor - Kenya National Census.
1999	Small-scale businessman (self-employment)
1998	Teacher - Navigators Academy, Nakuru
1994	Participant - British American Tobacco (BAT) sponsored appraisal of tree planting program.
1992 & 2007	Clerk - Electoral Commission of Kenya.

4. ADMINSTRATIVE RESPONSIBILITY

2017 - 2019	Officer in Charge, Kenya Forestry Research Institute, KEFRI, Kakamega Sub-Centre
1999 & 2009	Supervisor / Senior Supervisor - Kenya National Census.

5. PUBLICATIONS

5.1. Journal papers

1. Peter Gachie, Jonah Kipsat, Joshua Cheboiwo, Milton Esitubi, James Mwaura, Peninah Wairimu and Miriam Gathogo (2020). On-Farm Tree Growing Opportunities and Constraints in Murang'a

County, Kenya. East African Agricultural and Forestry Journal (Submitted and accepted in October 2020, awaiting publication)

2. Gachie P. K., Koech E.K., Njung'e J.T. and Simons A.J. (2020). Trees on Farm Domestication Level, Opportunities and Challenges: A Case Study of *Prunus africana* in Western Kenya. International Journal of Food Science and Agriculture, 2020, 4(2), 156-165.
3. Gathogo M, Shivairo R, Muleke C, Mdachi R, Mukiria P, Wanyonyi B, Sayah A, William L. and Gachie P (2018). Drug Sensitivity of *T. b. Brucei* Stabilates from Livestock in Lamu County, Kenya. International Journal of Innovative Research & Development. Vol 7 Issue 2. DOI No. : 10.24940/ijird/2018/v7/i2/FEB18016 Page 218.
4. Gachie, P.K., E.K. Koech, J.T. Njunge, A.J. Simons and P.K.. Ndalut (2012). Variation in yield and composition of bark extracts of *Prunus africana* in different provenances of Kenya. Forests, trees and livelihoods, Vol. 21 Issue 1 pp 56-62.

5.2. Books

1. **Gachie, P.K.** (2003). Variation in Yield and Composition of Bark Chemical Extracts of *Prunus africana* (Hook F) Kalk and Its Domestication in Kenya. A Thesis Submitted in Partial Fulfilment of The Requirements of Master of Philosophy Degree in Forestry (Agroforestry), Moi University.

5.3. Book Chapter

1. **Gachie P.** and Otieno Y. (2012). Meet Purity Gachanga a Farmer from Embu, Kenya. Transformations Bi-weekly. Internal newsletter of The World Agroforestry Centre. Vol 5 Issue 4 March 2012.

5.4. Technical Notes /Protocols/Guidelines

1. Mutua J., Muriuki J., **Gachie P.**, Bourne M., Capis J. (2014). Conservation Agriculture With Trees: Principles and Practice. A Simplified Guide for Extension Staff and Farmers. Technical Manual No. 21. World Agroforestry Centre, (ICRAF) Nairobi, Kenya.
2. **Gachie, P.**, S. Muthuri, V. Gitonga (2011). Total Farm Productivity in Smallholder Conservation Agriculture Based Systems in Eastern Africa: A Training Material for Tree Nursery Operators. Prepared for Farmers Training at Kaguru ATC, Meru, on 28-30th June 2011

5.5. Policy Briefs

1. **Gachie P.K.** (2016) Farm Forestry. KEFRI. A leaflet.
2. **Gachie P.K.**, D. Garrity, J. Mowo, T. Apina and S. Mkomwa (2010). Evergreen Agriculture: What is it All About? A Brochure.
3. **Gachie, P.K.** (2010). Evergreen Agriculture Initiative in Masongaleni Settlement Scheme, Kibwezi District. A Policy Brief and a Brochure

6. RESEARCH

6.1. Completed

1. Variation in Yield and Composition of Bark Chemical Extracts of *Prunus africana*- Completed

2007

2. Enhancing Total Farm Productivity in Smallholder Conservation Agriculture Based Systems in Eastern Africa – Completed 2011
3. Towards an Evergreen Agriculture in Africa: Scaling-Up Conservation Agriculture with Trees for Improved Livelihoods and Environmental Resilience in Eastern and Southern Africa – Completed 2012
4. Evaluation of adoption level of bamboo cultivation undertaken by KEFRI and partners in LVBERP - 2018
5. To evaluate the contribution of farm forests to livelihoods in Western Kenya - 2018
6. Evaluation of on-farm tree species and cover in Muranga county - 2016
7. Evaluation of adoption level of farm forestry technologies/ practices in Embu county - 2015
8. Case studies of success stories of 2 CBOs involved in production of bamboo culms for power transmission poles in LVBERP - 2018

8.1. Ongoing research

1. To identify challenges to the development and commercialization of bamboo products
2. Propagation of Sandalwood for Livelihoods Support, Adaptation to Climate Change and Conservation of its Gene pool (NRF Project)
3. Introduction and Domestication of Indian and East African (EA) Sandalwood
4. Restore degraded landscapes of Mt. Kulal Biosphere reserve and Mukogodo forest project
5. Maintenance of 2 ha *O. lanceolata* at CHERP

8.2. Mentorship and supervision

1. Supervisor / Senior Supervisor - Kenya National Census, 1999 In 2009 respectively
2. Supervision of university students at Egerton University, ICRAF and KEFRI
3. Supervision of 6 project/ field officers at Green Belt Movement

9. INNOVATIONS AND PATENTS (Intellectual Property)

10. CONFERENCES/SEMINARS/WORKSHOPS

10.1. Presentation of Papers at Academic and Professional Conferences

1. Gachie P., Kipsat J., Cheboiwo J., Esitubi M., Mwaura J. and Gathogo M. (2018). On-Farm Tree Growing Opportunities and Constraints in Murang'a County, Kenya. In Chagala–Odera E., Ochieng D., Wanjiku J., Muchiri M.N., Gichora M., Tuwei P., Kamondo B., Mengich E., Langat D., Oballa P., Muthike G., Chiteva R., Kagombe J., Cherotich L., Gathogo M., Muthama A. and Oduor N. (Eds). 2018. 'Contribution of Forestry Research to Sustainable Development': Proceedings of 5th KEFRI Scientific Conference, 17 – 19 April 2018 at KEFRI Headquarters Muguga. KEFRI, Kenya.
2. Gachie P. K., Koech E. K., Njung'e J. T., Simons A. J., Lichungu L. and Gathogo M. (2018) Trees on Farm Domestication Level, Opportunities and Challenges: A Case Study of *Prunus*

- africana* in Western Kenya. In Chagala–Odera E., Ochieng D., Wanjiku J., Muchiri M.N., Gichora M., Tuwei P., Kamondo B., Mengich E., Langat D., Oballa P., Muthike G., Chiteva R., Kagombe J., Cherotich L., Gathogo M., Muthama A. and Oduor N. (Eds). 2018. ‘Contribution of Forestry Research to Sustainable Development’: Proceedings of 5th KEFRI Scientific Conference, 17 – 19 April 2018 at KEFRI Headquarters Muguga. KEFRI, Kenya.
3. Gachie P. K., Koech E.K., Njung’ e J.T., Simons A.J., Ndalut P.K. and Kariuki, S.T. (2014). Agroforestry Tree Domestication Potentials and Challenges: A Case Study of *Prunus africana* (Hook F.) Kalk in Western Kenya. (Pp 133) In Innovative Research and Technology for Global Development. Proceedings of the 8th Egerton University International Conference 26-28th March 2014.
 4. Gachie P.K., Koech E.K., Njug’ e J.T., Simons A.J. and Ndalut P.K. Variation in Yield and Composition of Bark Chemical Extracts of *Prunus africana* (Pp 148-152) In Muchiri M.N. Kamondo B., Tuwei P. and Wanjiku J. (Eds) Recent Advances in Forestry Research and Technology Development For Sustainable Forest Management. Proceedings of the 2nd KEFRI Scientific Conference 1-4 November 2004, KEFRI Hq, Muguga.

10.2. Participation in Workshops/Conferences

1. World Agroforestry Centre: Scientific Write Shop - Zanzibar (2011)
2. World Agroforestry Centre: CAWT Projects Inception Workshops - Nairobi, Dar, es Saalam and Lusaka (2011)
3. Kenya’s Ministry of Agriculture: National Agroforestry Strategy Document Preparation – Machakos (2011)
4. World Agroforestry Centre: Integrated Crop Management Workshop – Nairobi (2011)
5. CIMMYT: Enhancing Total Farm Productivity in Smallholder Conservation Agriculture Based Systems in Eastern Africa – Embu, Kakamega, Melkassa, Bako (2010, 2011)
6. KARI: The 12th Biannual Scientific Conference – Nairobi (2010)
7. World Agroforestry Centre: Kilimanjaro SLM Inception Workshop - Moshi (2010)
8. World Agroforestry Centre: Fertilizer Production On-Farm: Promoting Fertilizer Trees to Attain Food Security and Evergreen Landscapes In Eastern Africa – Chennai, India (2010)
9. USAID/ PACT: 'The Kenya Civil Society Strengthening Program: Resource Mobilization Training Workshop' – Nairobi (2008)
10. - World Agroforestry Centre: 'Trees for Farmers: Improving Strategies for Germplasm Supply' – Nairobi (2007)

10.3. Convening/Coordinating Conferences

11. PROFESSIONAL ENGAGEMENT

11.1. Training

1. Training of communities from Mt. Kulal Biosphere reserve and Mukogodo forest landscape on tree nursery and their establishment and management
2. Teaching and guiding in research work, both diploma and undergraduate students taking General Botany, Plant Physiology, Plant Taxonomy, Taxonomy of Higher Plants, Plant Ecology, Plant Evolution and Environmental Forestry courses at Egerton University

11.2. Consultancies

1. Kenya Forestry Research Institute (2017). BAT Tree Planting Appraisal

11.3. Collaboration with external organizations

1. Participated in collaborative projects involving FAO, NEMA, KWS, NMK, KFS, JKUAT, ICRAF, CIMMYT, KARI, BAT

12. EXTERNAL AND INTERNAL RESEARCH GRANTS

Include research grants won

1. BAT Tree Planting Appraisal (2016)
2. ICRAF/ ANAFE's Grant (2003) - "Variation in yield and composition of *Prunus africana* bark extracts and its domestication in Kenya"

13. LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS

13.1. Local

13.2. Regional

13.3. International

14. AWARDS AND RECOGNITION

15. CONTRIBUTION TO KEFRIs ADVANCEMENT

16. MEMBERSHIP TO PROFESSIONAL BODIES

17. REFEREES

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Dr. Jeremias Mowo,

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