


## Academic Staff Profile

### Personal Profile

#### Personal Details

<p><b>Name:</b> GRACE WAMBUI GATHERI <b>Title/Qualification:</b> DR./PhD <b>Department:</b> PLANT SCIENCES. <b>Designation/Position:</b> SENIOR LECTURER <b>Email:</b> gatheri.grace@ku.ac.ke <b>Contact Address:</b> P.O. BOX 43844 00100 Nairobi.</p> <p><b>Area of Specialization:</b> - Plant Taxonomy -</p> <p><b>Research Interests:</b> - Classification of East African plants. - Medicinal plants.</p> <p><b>Google Scholar:</b> <b>ORCID ID:</b></p>	
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#### Academic & Professional Qualifications

- PhD Plant Taxonomy.
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#### Employment History

JAN 2012- To present: Senior Lecturer Department of Plant and Microbial  
Sciences, Kenyatta University. Now Plant Sciences  
Department

- 1988-Jan 2012: Lecturer, Plant and Microbial Sciences

-1987-1988: Tutorial Fellow Department of Plant and Microbial Sciences  
(presently, Plant Sciences)

-1978- Jan 1987: Kenya Agricultural Research Institute (KARI)

## **Achievements**

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## **Publications**

### **Referred Journals**

- Valentine A. Gatheri, G.W., Kamau J.W. and Morris M. 2020. Morphological and molecular characterization of cultivated yam (*Dioscorea* species) in selected counties in Kenya. *African Journal of Plant Sciences* 14(7), 270-279.
- Morogo, H.K., Muoria, P.K. and Gatheri, G.W. 2020. Human Use of Forest Trees and Its Impacts on Their Diversity and Abundance in Chemususu Forest, Baringo County, Kenya. *Research Journal Of Ecology* Vol. 7 No1 Feb 2020.
- Kirika, P.M; Divakar, P.K; Bauruang, K; Leavitt, S.D; Crespo, A; Gatheri, G. W; Mugambi, G; Bennatti, M.N. and Lumbasch H.T. 2017. Molecular phylogenetic studies unmask overlooked diversity in the tropical lichenized fungal genus *Bulbothrix*.l. (Parneliaceae, Ascomycota). *Botanical Journal of the Linnean Society*, 2017, 184, 387-399
- Kirika, P. M; Divakar, P.K; Crespo, A; Gatheri, G.W; Mugambi, G;Leavitt, S.D;Moncada, B. and Lumbusch H.T. 2016. Molecular data show that *Hypotrachynasorocheila*( Parmeliaceae) is not monophyletic.*The Bryologist*, 119(2):172-180.
- Kirika, P.M; Divakar, P.K; Crespo,A; Leavitt, S.D; Mugambi G; Gatheri G. W. and Lumbsch; H. T. 2016. Polyphyly of the genus *Canoparmelia* – uncovering incongruencies between phenotype- based classification and

molecular phylogeny within lichenized Ascomycota (Parmeliaceae).  
*Phytotaxa*289(1) 1179-3155

- Kirika, P.M; Divakar, P.K; Crespo, A; Mugambi, G; Oroko, E.A; Leavitt, S.D; Gatheri, G.W. and Lumbusch, H.T. 2016. Phylogenetic studies uncover a predominantly African lineage in a widely distributed lichen-forming fungal species. *Myckeys* 14: 1-16.
- Kirika, P.M; Divakar, P.K; Leavitt, S.D; Buaruang, K; Crespo, A; Mugambi, G; Gatheri, G.W. and Lumbusch H.T. 2017. The genus *Relicinopsis* is nested within *Relicina* (Parmeliaceae, Ascomycota). *The Lichenologist* 49(3): 189-197.
- Kirika, P.M; Leavitt, S.D; Divakar, P.K; Crespo, A; Gatheri G W; Mugambi, G. and Lumbusch, H.T. 2015 The monotypic genus *Bulborrhizina* belongs to *Bulbothrix sensulato* (Parmeliaceae, Ascomycota). *The Bryologist*, 118(2):164-169.
- Opinde, H.R; Gatheri, G.W. and Nyamache; A.K. 2016. Antimicrobial evaluation of crude methanolic leaf extracts from selected medicinal plants against *Escherichia coli*. *J. Bacterial Parasitol.* ISSN:2155-9597.
- Opinde, H. R; Gatheri, G W; Ogola, P.E; Arika, W. M; Wambani, J.R; Kebira, A.K. and Kamau, D.N. 2016. In vitro antifungal activity of leaf extracts from *Aloe secundiflora*, *Bulbinefrutescens*, *Vernonia lasiopus* and *Tagetes minuta* against *Candida albicans*. *Med Aromat Plants*, ISSN:2167-0412MAP
- Opinde, H.R; Gatheri, G.W. and Nyamache A.K. 2016. Antimicrobial activity of crude leaf extracts from medicinal plants against *Enterococcus faecalis*. *IJTCM* 1 (2): 0001-0009
- Opinde, H.R; Nyamache, A.K. and Gatheri, G W. 2018. Antimicrobial activity, Qualitative phytochemical composition of crude leaf extracts from

medicinal plants against selected enteric bacterial pathogens, *Candida albicans*. *Bioteknologi* 15(1) 1-12.

- Opinde, H. R.; Ogola, P.E; Arika, W.M; Wambani, J.R; Gatheri, G.W. and Nyamache A.K.2016. Combined Effect of crude leaf extracts of selected medicinal plants against selected pathogens and *Candida albicans*. *J Antimicro* 2:110
- Uleh, A.M. Newton, L.E; Mbugua, P.K.and Gatheri, G.W.2015.On the ancestry of the tetraploid shrubby *Aloes* in Kenya. *Haseltonia* 21:56-59
- - Chelashaw, J.M. Kamau F.N. and Gatheri G.W. 2007. A Survey of Some Medicinal Sold in Nairobi. *East Afr.J. Bot.* 1(1: (46-63).
- Gitonga,M.N., Gatheri, G.W., Cheruiyot, R., Gitonga, N.M. and Maingi, J.M.2010. Nodulation and Nitrogen Fixation in promiscuous and non-promiscuous soybean (*Glycine max* (L.) Merrill) varieties in Eastern Kenya.
- Jacinta Emacar, Okemo P.,Gatheri G. and Kariuki S. 2010, Antibiotic resistance patterns of *Escherichia coli* isolated from HIV-sero positive adults at Mbagathi District Hospital, Nairobi, Kenya. *J,Appl. Biosci.*

## **Books and Books Chapters**

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## Conference/Workshops/Seminar Papers

### Conference Papers

- -Workshops Papers
- Gatheri, G.W. November 2012. Riparian Vegetation Propagation for Improved Fisheries Productivity and Water Quality along River Nambale, Mbale District, Uganda. A paper presented in Fisheries and Aquaculture cluster workshop, Kisumu,
  
- Benson Mwangi, Grace Gatheri, Abel Shilla, Ntambi Baker, Monica A. Ombogo and Daniel Mugalu. 2010. Preliminary studies on fish species composition and feeding habits of two rivers, Rivers Kisian and Awach in the lake Victoria Basin, Kenya. VICRES Fisheries and Aquaculture Cluster Workshop, Mwanza Tanzania.
  
- Mugalu Daniel, Benson Mwangi, Grace Gatheri, Abel Shilla and Ntambi Baker 2010. Fish Market Survey in the Riverine communities within Lake Victoria Basin: A case of Awach Seme and Kisian Riverine communities in Central Nyanza Province, Kisumu-Kenya.
  
- Abubaker Ntambi, Benson Mwangi, Abel Shilla, Grace Gatheri and Dan Mugalu, 2010. Socio-Economic Condition of Riverine Communities around Rivers Awach and Kisian in Kisumu District, Kenya: Implications for Riverine Fisheries Management.
  
- Gatheri G.W. 2010.Improving community livelihoods through management and sustainable utilization of riparian vegetation in the Lake Victoria Region. AWSE confererence, Nairobi, Kenya.
  
- Ngwiri, J.M., Mbugua, P.K. and Gatheri G. W. Quantitative variation within and among populations of *Sansevieria parva* N.E.Brown and S. Dooneri complex (Asparagaceae) in
- Proceedings, 1<sup>st</sup> National Biological Postgraduate Students Conference, 2<sup>nd</sup>-5<sup>th</sup> AugustS, 2005.

## Seminar Papers

- Gatheri, G.W. November 2012. Riparian Vegetation Propagation for Improved Fisheries Productivity and Water Quality along River Nambale, Mbale District, Uganda. A paper presented in Fisheries and Aquaculture cluster workshop, Kisumu,
  
- Benson Mwangi, Grace Gatheri, Abel Shilla, Ntambi Baker, Monica A. Ombogo and Daniel Mugalu. 2010. Preliminary studies on fish species composition and feeding habits of two rivers, Rivers Kisian and Awach in the lake Victoria Basin, Kenya. VICRES Fisheries and Aquaculture Cluster Workshop, Mwanza Tanzania.
  
- Mugalu Daniel, Benson Mwangi, Grace Gatheri, Abel Shilla and Ntambi Baker 2010. Fish Market Survey in the Riverine communities within Lake Victoria Basin: A case of Awach Seme and Kisian Riverine communities in Central Nyanza Province, Kisumu-Kenya.
  
- Abubaker Ntambi, Benson Mwangi, Abel Shilla, Grace Gatheri and Dan Mugalu, 2010. Socio-Economic Condition of Riverine Communities around Rivers Awach and Kisian in Kisumu District, Kenya: Implications for Riverine Fisheries Management.
  
- Gatheri G.W. 2010.Improving community livelihoods through management and sustainable utilization of riparian vegetation in the Lake Victoria Region. AWSE conferernce, Nairobi, Kenya.
  
- Ngwiri, J.M., Mbugua, P.K. and Gatheri G. W. Quantitative variation within and among populations of *Sansevieria parva* N.E.Brown and S. Dooneri complex (Asparagaceae) in Proceedings, 1<sup>st</sup> National Biological Postgraduate Students Conference, 2<sup>nd</sup>-5<sup>th</sup> AugustS, 2005

## Student Co-authored Publications

- Valentine A. Gatheri, G.W., Kamau J.W. and Morris M. 2020. Morphological and molecular characterization of cultivated yam (*Dioscorea* species) in selected counties in Kenya. *African Journal of Plant Sciences* 14(7), 270-279.
- Morogo, H.K., Muoria, P.K. and Gatheri, G.W. 2020. Human Use of Forest Trees and Its Impacts on Their Diversity and Abundance in Chemususu Forest, Baringo County, Kenya. *Research Journal Of Ecology* Vol. 7 No1 Feb 2020
- Kirika, P.M; Divakar, P.K; Bauruang, K; Leavitt, S.D; Crespo, A; Gatheri, G. W; Mugambi, G; Bennatti, M.N. and Lumbasch H.T. 2017. Molecular phylogenetic studies unmask overlooked diversity in the tropical lichenized fungal genus *Bulbothrixis*.l. (Parmeliaceae, Ascomycota). *Botanical Journal of the Linnean Society*, 2017, 184, 387-399
- Kirika, P. M; Divakar, P.K; Crespo, A; Gatheri, G.W; Mugambi, G;Leavitt, S.D;Moncada, B. and Lumbusch H.T. 2016. Molecular data show that *Hypotrachynasorocheila*( Parmeliaceae) is not monophyletic.*The Bryologist*, 119(2):172-180.
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- Opinde,H.R; Gatheri, G.W. and Nyamache; A.K. 2016. Antimicrobiol evaluation of crude methanolic leaf extracts from selected medicinal plants against *Escherichia coli*. *J. Bacterial Parasitol*. ISSN:2155-9597.
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- Opinde, H.R; Gatheri, G.W. and Nyamache A.K. 2016. Antimicrobial activity of crude leaf extracts from medicinal plants against *Enterococcus faecalis*. *IJTCM* 1 (2): 0001-0009
- Opinde, H.R; Nyamache, A.K. and Gatheri, G W. 2018. Antimicrobial activity, Qualitative phytochemical composition of crude leaf extracts from medicinal plants against selected entric bacterial pathogens, *Candida albicans*. *Bioteknologi* 15(1) 1-12.
- Opinde, H. R;Ogola, P.E Arika, W.M; Wambani, J.R; Gatheri, G.W. and Nyamache A.K.2016. Combined Effect of crude leaf extracts of selected medicinal plants against selected pathogens and *Candida albicans*. *J Antimicro* 2:110
- Uleh, A.M. Newton, L.E; Mbugua, P.K.and Gatheri, G.W.2015.On the ancestryof the tetraploid shrubby Aloes in Kenya. *Haseltonia* 21:56-59



- - Chelashaw, J.M. Kamau F.N. and Gatheri G.W. 2007. A Survey of Some Medicinal Sold in Nairobi. East Afr.J. Bot. 1(1: (46-63).
- Gitonga,M.N., Gatheri, G.W., Cheruiyot, R., Gitonga, N.M. and Maingi, J.M.2010. Nodulation and Nitrogen Fixation in promiscuous and non-promiscuous soybean (*Glycine max* (L.) Merrill) varieties in Eastern Kenya.
- Jacinta Emacar, Okemo P.,Gatheri G. and Kariuki S. 2010, Antibiotic resistance patterns of *Escherichia coli* isolated from HIV-sero positive adults at Mbagathi District Hospital, Nairobi, Kenya. J,Appl. Biosci.

### **Other Publications**

- Gatheri, G.W. November 2012. Riparian Vegetation Propagation for Improved Fisheries Productivity and Water Quality along River Nambale, Mbale District, Uganda. A paper presented in Fisheries and Aquaculture cluster workshop, Kisumu,

### **Research**

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### **Funded Projects**

VCSs Research Grant

Vicres Reseach grant

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## **Conferenced/Workshops/Seminars Attended**

### **Conferences Attended**

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### **Workshops Attended**

- 22<sup>nd</sup> February 2019. Training of trainer's workshop for staff mentors and growing leaders' facilitators held at Kenyatta University.
  
- 22-24<sup>th</sup> May 2017. Post AETFAT Congress Phylogenetic Training Course held at University of Nairobi.
  
- February and May 2016. The use of SPSS in data analysis held at Kenyatta University.
  
- 26-27<sup>th</sup> July 2016. Chemical Security and Safety Training facilitated by Civilian Research and Development Foundation (CRDF) held at Kenyatta University School of public health.
  
- 14<sup>th</sup> November 2015. The 5<sup>th</sup> symposium of the Society for Economic Botany Kenya Chapter (SEB-K) held at Kenyatta University.
  
- 11<sup>th</sup> -12<sup>th</sup> November 2014. External peer reviewers training held at Kenya school of Monetary Studies. (Commission for University Education).
  
- 28<sup>th</sup> May-14<sup>th</sup> November 2013. Teaching methodology held at Kenyatta University.
  
- 12<sup>th</sup> -15<sup>th</sup> December 2010 VICRES Fisheries and Aquaculture cluster workshop, Mwanza, Tanzania
  
- 31<sup>st</sup> August, 2010. Kenyatta University Capacity Building Seminar for Staff Mentors.

- 18<sup>th</sup>-20<sup>th</sup> August 2010: A decade into the 21<sup>st</sup> century: The Contribution of African Women Scientists and Engineers. Nairobi, Kenya.
- 10<sup>th</sup>-14<sup>th</sup> August 2010. 1<sup>st</sup> East African Regional Scientific Conference of Pure and Applied Sciences. Kenyatta University, Nairobi, Kenya.
- 5<sup>th</sup>-8<sup>th</sup> July, 2009. VICRES Aquaculture cluster meeting, Arusha, Tanzania
- 30-31<sup>st</sup> November 2008. VICRES Lead Scientist Meeting, Entebbe, Uganda
- 16<sup>th</sup>-22<sup>nd</sup> March 2008. VICRES Proposal Writing Workshop Jinja Uganda
- 29<sup>th</sup> July, 2008. Training on Curriculum Vitae Writing Skills and Interviews
- 2008. Mainstreaming of HIV and AIDS in the University Curriculum
- 6<sup>th</sup>-7<sup>th</sup> November, 2008. Relevance of Intellectual Property Rights to Institutions of Higher Learning, Kenyatta University.
- 10<sup>th</sup>-13<sup>th</sup> August 2008 Effective Project Planning and Evaluation in Health Research. Trypanosomiasis Research Centre -KARI.
- 2005: 1<sup>st</sup> National Biological Postgraduate Students Conference, Kenyatta University
- 2004: National Postgraduate Zoological Conference, Kenyatta University
- 2002: Prota Workshop. World Agroforestry Center, ICRAF, Nairobi
- 1994: Biotechnology Platform, the way forward since Beijing, Nairobi University
- 1993: Mapping strategies for the Kenya Association of Women Scientists and Engineers at ICIPE, Kenya
- 1991: Advances in Labiatae Science, Kew, England,
- 1984: Planning Fuel wood Projects, Lilongwe, Malawi.

## Seminars Attended

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## Supervision of Postgraduate Students

### Masters

- I56/27642/2018. Maigo Peter Mosiori. Morphological, molecular and chemical characterization of *Mimosa pudica* L. from selected locations in Kenya
- I56/38344/2016. Valentine Atieno. Morphological and Molecular characterization of cultivated *Dioscorea* species in selected counties in Kenya
- I56/ CE/34210/2016. Musungu S. Scholar. Documentation and Conservation of Wild edible plants in Bungoma County, Kenya.
- I56/CE/34256/2016, Agwata Nyabate Delfine. The role of some Medicinal plants in childhood improvement and their Ecological sustainability in Nyamira county, Kenya.
- I56/CE/26272/2015. Nancy M. Namoyo. Survey of medicinal Plants, their utilization and conservation in Kisii County, Kenya.
- I56 /CE/2850/2013. Morogo K. Hosea .Human impact on the diversity and abundance of trees in Chemususu forest, Baringo county Kenya.
- I56/ 20520/2012, Hilbert Rachuonyo Opinde. Antimicrobial activity of crude extracts of some medicinal plants against selected enteric bacterial pathogens and *Candida albicans*.
- I56/26638/2011 Ethnobotanical survey and antimicrobial screening of selected medicinal plants used in traditional medicine in Kiambu County, Kenya.
- I56F/22. N50/CTY/21532/2010, Mamet David Ryan Role of Vernacular Radio Stations in Information Dissemination and Climate Variability Adaptation in Kajiado County Kenya.

- I 56F/22630/2012, Uleh Amodu Mark. On the Ancestry Tetraploid Shrubby Aloes, Kenya.
- I56/CE//10503/04 Jacinta Emacah (MSc.) Antibiotic susceptibility and Genotypes of *Escherichia coli* isolated from HIV seropositive adults at Mbagathi Hospital Kenya.
- I56/5986/03 Fidencio Kinyamu Ndegwa (MSc) Use, Conservation and Harvesting Techniques of Medicinal Plants by the Ogiek of East Mau Forest, Nakuru District, Kenya.
- I56/7335/02 Jancinta Ngwiri (MSc) Taxonomy and Distribution of Some Kenyan Taxa of the Genus *Sansevieria* Thunb. Asparagaceae Juss.
- I56/7337/02 Gitonga N. Mawira (MSc). Nodulation and Nitrogen Fixation in Promiscuous and Non Promiscuous Soybean Varieties Grown in Kenya.
- I56/10406/07 Abuga Samuel Onyambu (Bed.) Efficacy of Some Medicinal Plants Used by the Samburu Community against Selected Bacteria and Fungi.
- I56/CE/10166/04 Chemjor Richard Cheboite (BSc.) Antimicrobial Activities of Some Medicinal Plants Used by Tugen Community for the Treatment of Gastrointestinal and Fungal Diseases.

## **Ph. D**

I84/377792/2017, Gertrude V. Evusa (PhD). Phylogeny Taxonomy and conservation of *Kalanchoe*(Crassulaceae),in Tropical Africa.

I84/23317/ 2012, Paul M. Kirika (PhD) Diversity and Molecular phylogenetic analyses of Parmeloid Lichen(Parmeliaceae, Ascomycota) in Ken.

## **Professional/ Consultancy (Editor/ Peer review in journals, Networks/ Collaborations, External Examiner, Patents)**

External Examiner University of Nairobi  
 Jan 2020 PhD Omari Joyce Kanini,  
 MSc thesis: Ms Adeka Joyce Kagai  
 Ms Nyandika Brenda Nyaboke

2014-2018 -Peer Reviewer, Commission for University Education

### **Community Service and Other Engagements**

- 10<sup>th</sup> November 2015- To present. Member of Board of Management- Githambia Secondary School.

### **Affiliation of Professional Bodies**

- Member of the African Women in Science and Engineering (AWSE)
- Member: Society of Economic Botany
- Member: African Women in Biosciences Forum
- Peer Reviewer: March 2014- March 2018, COMMISSION OF UNIVERSITY

### **National and International awards and Recognitions**

#### **Administrative Positions Held**

- 2013-2018 – Deputy Director, Student Affairs, Ruiru Campus.
- 2010 -To Date -Head, Taxonomy Section
- 2009- Academic Advisor
- 2008-2012: Departmental seminars Coordinator
- 2007- Continuing. Mentor, mentoring Programme
- 2007- 2012 Warden, Women's Halls, Nyayo Hostels
- August 2004. Placement Committee - member
- August 2003 – 2004. Warden, Eastern zone, women (Aberdares - New and Old).
- April 2001 – June 2007: Departmental Examination Coordinator.
- April 2001 to June 2007: Chairlady Examination Moderation Committee
- 2000 - 2004: Curator: Herbarium.

**Recognized university administrative positions**

-Deputy Director Student affairs

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**Other administrative positions Held**

-Academic advisor

- Examination co-ordinator.

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