


## Academic Staff Profile Template

## 1.1 Personal Profile

## 1.1.1 Personal Details

<p><b>Name: Emily Wabuye</b>  Title/Qualification: PhD  Department: Plant Sciences  Designation/Position: Lecturer  Email: wabuye.emily@ku.ac.ke  Contact Address:  <b>Area of Specialization: Botany</b>  -Plant taxonomy  -Plant Ecology  -Ethnobotany  -Biogeography  <b>Research Interests:</b>  -Systematics, population biology; Invasive species; Rare Species; Conservation  --  Google Scholar: Emily Wabuye  ORCID ID: <a href="https://orcid.org/0000-0003-0821-8699">https://orcid.org/0000-0003-0821-8699</a></p>	
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## 1.1.2 Academic &amp; Professional Qualifications

2003 – 2006 **PhD**, University of Oslo, Norway

- **Research thesis:** Studies on Eastern African aloes; aspects of Taxonomy, Conservation and Ethnobotany

1998 – 2000 **MSc. Biodiversity Conservation**, Addis Ababa University, Ethiopia

- **Research thesis**  
– A systematic Assessment of the relationship between *Aloe macrocarpa* and *Aloe lateritia* (Aloaceae)

1990 – 1994 **BSc. Botany, Geography and Zoology** (Honours, Second Upper Division)

*Kenyatta University, Kenya*

## 1.1.3 Employment History

-2014 to date *Lecturer*, Plant Science Department, Kenyatta University

2011 – 2014 *Registrar of Collections*, National Museums of Kenya

2006 – 2011 *Senior Research Scientist*, National Museums of Kenya

2000 – 2006 *Research Scientist*, National Museums of Kenya

1995 – 2001 *Assistant Research Scientist*, National Museums of Kenya

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## 1.1.4 Achievements

## MAJOR REPORTING AND EDITORIAL FUNCTIONS ACCOMPLISHED

2018	Chief Rapporteur, AETFAT Congress, Nairobi-Kenya. <a href="http://www.aetfat2017.museums.or.ke/">http://www.aetfat2017.museums.or.ke/</a>
2016 to 2020	Editorial Board member, Flora of Kenya Project
2015	Chief Rapporteur, TDWG Annual Conference, Nairobi-Kenya. <a href="https://cetaf.org/tdwg-2015-annual-conference">https://cetaf.org/tdwg-2015-annual-conference</a>
2016	Commissioned by Academic Press/Elsevier to review the book, 'Uganda Aloe Field Guide'.
2012 – 2014	Editor-in-chief, e-Newsletter, East African Herbarium
2009 – 2011	Chief reporting officer, UVIMA (Taxonomy for Development in East Africa Project)
2007 – 2009	Chief reporting officer, East African Plant Biodiversity Project

## PROJECT MANAGEMENT AND COORDINATION FUNCTIONS ACCOMPLISHED/ONGOING

- 2016 to present: Country coordinator, Collaborative learning in biodiversity: excellence in education through two-way North-South mobility programme. This is Norwegian funded project that brings together expertise in biodiversity and systematics from Norway and selected countries in eastern Africa to create two-way mobility in teaching and student research.
- May 2015 to present: **Scientific Advisor for Succulenta EA**, a committee of the East Africa Natural History Society.
- 2008 to date: **National coordinator for the EAFRINET, the East African chapter of BioNET International**. Core responsibility is to popularise and create awareness amongst researchers, resource managers and policy makers on 'why taxonomy matters' and its contribution to development in East Africa.
- 2009 to 2014: **National coordinator of the Parthenium Project in Kenya**. This project aims to abate the spread of the invasive weed, *Parthenium* in the country by establishing current distribution and developing management programmes for the weed.
- 2008 to 2011: **Team leader for the UVIMA (*Uchambuzi wa viumbe kwa Maendeleo Africa Mashariki*) Project**. I have mainly been involved in identification of priority actions on invasive plants as a means of enhancing food security by bridging the gap between generators and end-users of taxonomic information.
- 2007 to 2010: Regional coordinator for the JRS –funded biodiversity **Informatics Project that was implemented in Kenya, Uganda and Tanzania**. A major component of the project was to enhance human and physical infrastructure for development of Biodiversity information Management Systems in East Africa. Outstanding outcomes of the project include the formation of KenBIF, the GBIF node in Kenya proposal to establish NMK as a regional Centre of Excellence in Biodiversity Informatics.

- 2006 – 2008: *National Coordinator for the Lilies, orchids and aloes of Kenya project*. This was a collaborative project with the University Oslo, Addis Ababa University and the National Museums of Kenya with funding from the Norwegian Research Council of Universities

## 1.2 Publications

### 1.2.1 Referred Journals

1. Matheka, K. W., Malombe I., Mwadime, T. **Wabuye, E.** and Newton, L. E. (2020). *Aloe ngutwaensis* (Asphodelaceae), a new species in Makueni County, south-eastern Kenya. *CactusWorld* Vol. 38 (3): 211-215.
2. Muchemi Peterson, Joseph Kamau, **Emily Wabuye** (2018). The Effects of Invasive Plants in East Africa : Beauty in the Beast. RUFORUM Biennial Conference, Nairobi Kenya
3. Newton L. E & **Wabuye, E.** 2018. Two new species of *Aloe* (Asphodelaceae) in Kenya. *CactusWorld* Vol. 36 (3): 185-188.
4. **Wabuye, E.**, S. Kang'ethe & L. E. Newton. 2016. Digital knowledge of Kenyan succulent flora and priorities for future inventory and documentation. *Biodiversity Informatics* 11: 12-22.
5. Charlotte S. B, **Wabuye, E.** Grace, O. M., Nordal, I. & Newton, L. E. 2015. The uses of Kenyan aloes: an analysis of implications for names, distribution and conservation. *Journal of Ethnobiology and Ethnomedicine* 11:82. DOI 10.1186/s13002-015-0060-0
6. **Wabuye, E.**, Bisikwa, J., Clark, K., Luweti, A., Gerald, K., Lotter, W., McConnachie, A, Mersi, W. 2014 . Roadside survey of the invasive weed *Parthenium hysterophorous* L. (Asteraceae) in East Africa. *Journal of East African Natural History* 103(1):49-57.
7. Takawira-Nyenyanya, R., Newton, L. E., **Wabuye, E.**, & Stedje, B. 2014. Ethnobotanical uses of *Sansevieria* Thunb. (Asparagaceae) in Coast Province of Kenya. *Ethnobotany Research & Applications* 12: 51-70.
8. Jack D. Pettigrew F. R. S., Karen I. B., Adhil B., Eunice G., Ngalla J., Jean M., **Wabuye E.** & Claudia E. V. 2012. Morphology, ploidy and molecular phylogenetics reveal a new diploid species from Africa I the baobab genus *Adansonia* (Malvaceae: Bombacoideae).
9. **Wabuye, E.**, Karani, P. & Simiyu, S. 2012. New dawn for biodiversity informatics in East Africa; the case of the East Africa biodiversity informatics project. In Wasonga, V., Lusweti, A., Handa, C. & Wabuye, E. (eds.). *Heritage Management for sustainable development: proceedings of the 3<sup>rd</sup> National Museums of Kenya scientific conference 2011*. National Museums of Kenya, Nairobi.
10. **Wabuye, E.**, 2012. *Abroma augusta* (L.) L.f. In (eds.) Brink, M. & Achigan-Dako, E.G. *PROTA (Plant Resources of Tropical Africa) 16: Fibres*. Pgs 20-23. Wageningen, Netherlands.
11. Lusweti, A., **Wabuye, E.** & Ssegawa, P. (2011). Lucid Keys and Fact sheets to 100 of the most common invasive plants in East Africa. <http://keys.lucidcentral.org/keys/v3/eafrinet/plants.htm>
12. **Wabuye, E.** & Nordal, I. 2010. The development of species level taxonomy in Eastern Africa from the 'Flora of Tropical Africa' to the present day – ideas and methods used. In: X. van der Burgt, J. van der Maesen & J.-M Onana (eds), *systematic and Conservation of African Plants*, pp. 579-584. Royal Botanic Gardens, Kew.
13. **Wabuye, E.** & Kyalo S. 2008. Sustainable Use of East African Aloes: The case of Commercial Aloes in Kenya. Published online at [www.conabio.gob.mx](http://www.conabio.gob.mx).

14. **Wabuyele, E.** Sebsebe Demissew, Grayer, R. Newton, L. E., Nordal, I. 2007. The maculate Aloe complex (series Saponariae Berger) in Eastern Africa. *Discovery and Innovation Journal* 19(2): 263-275.
15. Mukonyi, K. W., Owuor, B., Chikamai, B. N. & **Wabuyele, E.** 2008. The status of Aloe exploitation, conservation and its contribution to communities' livelihoods in Kenyan drylands: *Discovery and Innovation* 19(2):231-241.
16. **Wabuyele, E.** 2006. *Aloe kilifiensis* (Aloaceae) newly recorded for Tanzania. *Journal of the East African Natural History Society* 95(2): 227-229.
17. **Wabuyele, E.,** Bjorå C. S., Nordal, I. & Newton L. E. 2006. Distribution, diversity and conservation of the genus *Aloe* in Kenya. *Journal of the East African Natural History Society* 95(2): 213-225.
18. **Wabuyele, E.** 2006. Studies on Eastern African aloes: aspects of taxonomy, conservation and ethnobotany. Dissertation submitted to the faculty of Mathematics and Natural Sciences, University of Oslo.
19. **Wabuyele, E.** 2000. A systematic study of the relationship between *Aloe macrocarpa* and *Aloe lateritia* (Aloaceae) MSc. Thesis presented to the School of Postgraduate studies, Addis Ababa University.



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- 1.2.2 Books and Books Chapters
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- 1.2.3 Conference/Workshops/Seminar Papers
  - 1.2.3.1 Conference Papers
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  - 1.2.3.2 Workshops Papers
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  - 1.2.3.3 Seminar Papers
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- 1.2.5 Student Co-authored Publications
  1. - Auma, D., **Wabuye, E.** Muoria, P, Abuto, J. O. 2018. Distribution of *Parthenium hysterophorus* Linn. and its Impacts on Biodiversity in Nyando Sub-County, Kisumu County, Kenya. *European Academic Research* 6(4): 1599-1621.
  2. Kituyi, B, Otuoma, **Wabuye, E** & Musila W. 2018. Interaction of *Bischofia javanica* and its effect on species diversity and structural composition of secondary and plantation forests in a kenya rainforest. *Journal of Tropical Forest Science* 30(3): 393–401.
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- 1.2.4 Other Publications
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- 1.3 Research
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- 1.4 Funded Projects
  1. 2012 to 2021(2022) Collaborative learning in biodiversity: excellence in education through two-way North-South mobility programme. This is Norwegian funded project that brings together expertise in biodiversity and systematics from Norway and selected countries in eastern Africa to create two-way mobility in teaching and student research.
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- 1.5 Conferenced/Workshops/Seminars Attended
  - 1.5.1 Conferences Attended
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#### 1.5.1 Workshops Attended

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#### 1.5.1 Seminars Attended

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#### 1.6 Supervision of Postgraduate Students

##### 1.6.1 Masters

1. 2020 to date— -Mr. Gabriel Mutai, MSc. Kenyatta University. Utilization, Distribution And Population Structure Of Woody Plants in Nairotia Block Of Mau Forest-Kenya
2. -2020 to date — Mr. Patrick Bikeri, MSc Kenyatta University. Distribution of dodder weeds (*Cuscuta* spp.) and impact on plant diversity in nyakach sub-county, Kisumu county, Kenya- Ongoing
3. -2020 to date — Ms Carolyne Chepkwemoi: Infestation of crops by field dodder (*cuscuta campestrisyunker*) in Chilchila ward, Kericho County, Kenya
4. -2019 to date —Ms Jane Njehu, MSc. Kenyatta University. Optimization of germinability and regeneration of *melia volkensii gürke* under natural conditions in Kitui county, Kenya. Thesis submitted April 2021
5. -2016 to 2019 — Dorca Auma Murono, MSc Kenyatta University. Distribution of *Parthenium hysterophorus* and its impacts on biodiversity and agricultural productivity in Kadibo Division, Kisumu County, Kenya. Thesis successfully completed in 2019.
6. -2016 to 2018 — Brimas Kituyi, MSc Kenyatta University: Interactions and effects of *Bischofia javanica* (bishop wood) on stand structure and species diversity in natural and plantation forests in Kakamega rainforest, Kenya. Thesis successfully completed in 2018.
7. -2010 to 2014 — Halima Mvungi Amir, MSc University of Dar es Salaam, Tanzania: Taxonomic study of selected aloe species of Tanzania and the associated indigenous Knowledge. Thesis successfully completed in 2014.

##### 1.6.2 Ph. D

1. -2018 to date — Gertrude Vwononi Evusa – PhD, Kenyatta University: Phylogeny, Taxonomy, and conservation of the genus *Kalanchoe* (crassulaceae) in Kenya. Ongoing

2. 2017 to date —Martha M. Konje, PhD Kenyatta University: Spatial and Temporal variation in forage production and availability in richtersveld national park, South Africa. PhD completed

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

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### 1.8 Community Service and Other Engagements

1. September 2017 to 2021: Member of Governing Board, Kapcherop Technical & Vocational College, Elgeyo Marakwet County, Kenya.
2. -May 2015 to present: **Scientific Advisor for *Succulenta EA***, a committee of the East Africa Natural History Society.
3. -2013 to 2017: **Member of Governing Board**, Baringo Technical College, Kabarnet County, Kenya.
4. -2011 to 2014: Chair, **Science and Ethics Committee** of the National Museums of Kenya.
5. -2007 to present: **National coordinator**, EAFRINET, the East Africa Network for Taxonomy.

### 1.9 Affiliation of Professional Bodies

1. -Member, Nature Kenya-the East Africa Natural History Society
2. -Member, Succulenta EA
3. Member, the International Organization for Succulent plant study (IOS).

### 2.0 National and International awards and Recognitions

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### 2.1 Administrative Positions Held

#### 2.1.1 Recognized university administrative positions

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#### 2.1.2 Other administrative positions Held

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