



Lucas Daniel Tivana CV

CURRICULUM VITAE

1. **Family name:** Tivana
2. **First names:** Lucas
3. **Nationality:** Mozambican
4. **Country of Residence:** Mozambique
5. **Contact details:** Lucas Daniel Tivana
Faculty of Agronomy and Forestry Engineering
Eduardo Mondlane University
Maputo, Mozambique
lucastivana@yahoo.co.uk, lucas.tivane@uem.mz
Telephone mobil: +258 82 4248450

6. Education:

Institution [Date from - Date to]	Qualification obtained:
2007-2012	Doctor of Philosophy degree in Food Technology, Lund University, Sweden
2002-2005	Master of Philosophy degree in Food Science, University of Zimbabwe, Harare, Zimbabwe
1993-1998	B.Sc. Honours degree in Agronomy Engineering at Eduardo Mondlane University, Maputo, Mozambique

7. Language skills: (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
Portuguese	5	5	5
English	5	4	4
Changane (Tsonga)	3	4	3

8. Membership of professional bodies:

International Society of Tropical Root Crops
--

9. Specialisation: Food Science and Engineering, Post harvest management

10. Present position: Senior Lecture (Eduardo Mondlane University- Faculty of Agronomy and Forestry Engineering)

11. Key Skills:

- Excellent creativity on development and research on food processing and preservation
- Excellent leadership on implementation of Post-harvest management projects for smallholder farmers
- High involvement on challengers related to reduction of postharvest losses in Africa

12. Specific experience:

Country	Date from - Date to
Mozambique	1998- to present
Sweden	2015-2019
Tanzania	2007-2011

13. Professional experience (Formal employment and Assignments/consultancies)

Date from - to	Location	Organisation	Position	Description of Duties and achievements
1998-Present	Maputo	Eduardo Mondlane University	Lecture	Teaching and Research Covering the following courses: Food Processing, Food Chemistry, Food Microbiology and Safety, Food Analysis, Post-Harvest Technology and Food Preservation
2019-2021	Maputo, Gaza and Inhambane	Eduardo Mondlane University/AGRA	Research	Project coordinator “Scaling up cassava technologies for cassava value chain development in Limpopo corridor through business skill development” funded by AGRA: Contribute to the development of cassava value chain
2018-2021	Maputo and Inhambane	Eduardo Mondlane University/DAT CO-Mandioca	Research	Project co-coordinator. “Enzymatic removal of linamarin during cassava processing to achieve WHO recommended maximum level of cyanide” Funded by DEG-German: Improved the removal of toxic compound in cassava derivatives
2019-2021	Mozambique	Ministry of Agriculture and Rural Development	Consultancy	Elaboration of the National Post Harvest Management Strategy, commissioned by the: Strategy under design

Date from - to	Location	Organisation	Position	Description of Duties and achievements
2015-2020	Sweden/Mozambique	Lund University/Eduardo Mondlane University	Co-coordinator	“Combined solar and membrane drying technologies for sustainable fruit preservation in developing countries” Funded by FORMAS- Sweden
2014-2019	Mozambique	Eduardo Mondlane University	Principal Investigator	Improving Grains Storage structures for Smallholder Farmers in Mozambique and Zambia” funded by World Bank
2014-2017	Mozambique	FANRPAM (Food, Agriculture and Natural Resources Policy Analysis Network)	Consultancy	Review of Mozambique agriculture policy and strategies related post-harvest management: Published Policy Brief

14. Publications

R. Bernardo ,H. Davidsson ,P. Samuelsson ,G. Bengtsson , V. D’öhlen , J. Olsson , R. Phinney , P. Otte , L. Tivana ,M. Andersson , M. Rayner (2021). Combined Solar and Membrane Drying Technologies for Sustainable Fruit Preservation in Low-Income Countries – prototype development, modelling, and testing, *Solar Energy Advances*. Doi: <https://doi.org/10.1016/j.seja.2021.100006>

D. Tevera, M. Sibanda, F. Mamba and L. D. Tivana (2021). Assessment of Cyclone Idai Floods on Local Food Systems and Disaster Management Responses in Mozambique and Zimbabwe. In: Nhamo, G. and Chikodzi, D. (Eds.) *Floods in Southern Africa* (New York: Springer), pp. 59-68. Doi: [10.1007/978-3-030-74303-1_4](https://doi.org/10.1007/978-3-030-74303-1_4)

L D Tivana, R J Nguenha, P Viola, I Monjane, O Lungu, N. Kafwamfwa (2020). Effectiveness of high- density polyethylene container and Super Grain Bag for the storage system of cowpea grain for smallholder farmers. *Legume Science*;1–12. <https://doi.org/10.1002/leg3.67>

R. Phinney, L. D. Tivana, I. Sjöholm, K. Östbring, I. Jeje, D. Guibundana, M. Rayner (2020). Concentration of citrus fruit juices in membrane pouches with solar energy Part 2: How solar drying setup and juice pre-treatment determine the microbial quality. *Journal of Food Process Engineering*: DOI:10.1111/jfpe.13377

G. Covele, A. Gulube, L. Tivana, A. I. Ribeiro-Barros, M. O. Carvalho, A. Ndayiragije, R. Nguenha (2020). Effectiveness of hermetic containers in controlling paddy rice (*Oryza sativa* L.) storage insect pests. *Journal of Stored Products Research*.
doi.org/10.1016/j.jspr.2020.101710

R. Phinney, L. D. Tivana, I. Sjöholm, K. Östbring, I. Jeje, D. Guibundana, M. Rayner (2019). Concentration of citrus fruit juices in membrane pouches with solar energy Part 1: How solar drying setup and juice pre-treatment determine the drying flux. *Journal of Food Process Engineering*, 43 (1) doi:10.1111/jfpe.13335

P. Otte, R. Bernardo, [R. Phinney](#), H. Davidsson, L. Tivana (2018). Facilitating integrated agricultural technology development through participatory research. *The Journal of Agricultural Education and Extension Journal*, DOI: [10.1080/1389224X.2018.1461662](https://doi.org/10.1080/1389224X.2018.1461662)

P. Otte, L. Tivana, R. Phinney, R. Bernardo, H. Davidsson, (2018). The importance of gender roles and relations in rural agricultural technology development - A case study on solar fruit drying in Mozambique. *Gender, Technology and Development*. DOI. 10.1080/09718524.2018.1444442

R. Phinney, M. Rayner, I. Sjöholm, L. Tivana, P. Dejmek (2015). Solar Assisted pervaporation (SAP) for preserving and utilizing fruits in developing countries. *Third Southern African Solar Energy Conference*, 170-175

F. Zelder, L. Tivana, (2015). Corrin-based chemosensors for the ASSURED detection of endogenous cyanide. *Organic & Biomolecular Chemistry*, 13 (1): 14-17 DOI: 10.1039/c4ob01889c

L. D. Tivana, A. C. Chambule, M. Madzara, Isabel Monjane (2014). Towards a Specific Post-harvest Loss Management Policy and Strategy for Mozambique. Food, Agriculture, and Natural Resources Policy Network, Policy Brief

I. S. T. de Carvalho, L. D. Tivana, Y. Granfeldt, P. Dejmek, (2014). Improved Energy and Sensory Properties of Instant Porridge Made from a Roasted Mixture of Grated Orange-Fleshed Sweet Potatoes and Flour Made from Shredded Sun Dried Cassava. *Food and Nutrition Sciences*, 5, 1428-1438

L. D. Tivana, P. Dejmek, B. Bergenståhl, (2013). Effect of pH and soy flour heat treatment on texture and color of fortified roasted sheared cassava (*Manihot esculenta* Crantz) roots. *Starch/Stärke Journal*, 65, 628-636

L. D. Tivana, P. Dejmek, B. Bergenståhl, (2010). Characterization of the agglomeration of roasted shredded cassava (*Manihot esculenta* crantz) roots. *Starch/Stärke Journal*, **62** (12), 637-646.

L. Tivana, J. Da Cruz Francisco, B. Bergenståhl, P. Dejmek (2009): Cyanogenic Potential of Roasted Cassava (*Manihot esculenta* Crantz) roots Role from Inhambane Province, Mozambique. *Czech J. Food Sci.*, **27**, 375-378.

L. D. Tivana, J. M. Bvochora, A. N. Mutukumira, J. D. Owens (2007). A Study of Heap Fermentation Process of Cassava Roots in Nampula Province, Mozambique. *Journal of Root Crops*, **33** (2), 119-128.

15. Professional Referees

Prof. Doutor Alfredo Nhantumbo
Faculdade de Agronomia e Eng. Florestal
Universidade Eduardo Mondlane
P.Box 257, Maputo, Moçambique
abnhantumbo@yahoo.com

Prof Doutor Eng José da Cruz Francisco
Faculdade de Engenharia
Universidade Eduardo Mondlane
P.Box 257, Maputo Moçambique
Email: jose_dacruz@yahoo.com
Cell: 258 826429577

Professor Björn Bergenståhl
Food Technology, Lund University,
Chemical Center, P. O. Box 124,
SE-221 00 LUND, Sweden
Email: bjorn.bergenstahl@food.lth.se