

1. Curriculum vitae for Dr. Dino Andrew Woiso

Dino has a basic degree in Forestry from SUA, M Sc in Biodiversity conservation from SLU, Uppsala University, Sweden, and Ph.D. in agroforestry from Bangor University, UK. He has expertise in natural resources utilization and conservation, integrated ecosystem management, and community forestry. He has conducted research, consultancy, and outreach activities in the fields of sustainable management and utilization of natural resources in Tanzania and East Africa. For more than 10 years he has been involved in training farmers including forest adjacent communities across Tanzania on tree nursery establishment, seedlings transplantation, natural forests tending operations, and overall restoration of degraded forest/catchment areas. He has also been engaged in the assessment of tree nursery operations in Tanzania and the development of nursery management guidelines. Dr. Dino has a Ph.D. from Bangor University, UK (2011) where he assessed the domestication and commercialization potential of indeciduous fruit trees of Africa using *Sclerocarya birrea* (the Marula tree) as a study specimen. He has also worked on nursery establishment, enrichment planting, field tending, and sustainable harvesting of *Prunus africana* barks in Rombo, Hai, Mwanga, Lushoto, Njombe, and Mufindi. His research areas of interest are conservation of biodiversity, afforestation, climate change, transboundary waters, and integrated ecosystem management. More details about the academic and professional background of Dr. Dino can be seen below.

I.	FULL NAME	Dino Andrew Woiso			
II.	PERMANENT ADDRESS AND CONTACT INFORMATION P.O. Box 3038, Morogoro, Tanzania. Tel: +255 23 2604420, Fax: +255 23 2603404 Cell: +255 756 637924 Email: dino@sua.ac.tz				
III.	DATE OF BIRTH	8/11/1975			
IV.	NATIONALITY	Tanzanian			
VI.	EDUCATION	<ul style="list-style-type: none">• PhD in Agroforestry from Bangor University, The UK; 2011 (Research area – Improved management of indigenous fruit trees (IFTs).• M.Sc. in Biodiversity Conservation from Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden; 2003.• B Sc. Forestry from Sokoine University of Agriculture (SUA), Tanzania; 2000			

VII.	OTHER TRAINING	<ul style="list-style-type: none"> Improved Trans-boundary Water Management in Africa, Kampala 2016 QGIS, QSWAT, and SWATCUP open source tools for hydro-ecological modeling offered by Aarhus University February, 2016 Workshop on water and sanitation, iWASH, Morogoro, 2013 Proposal Writing skills, organized by Tanzania Commission for Science and Technology (COSTECH) May 2013 Training of Trainers for Proposal Writing organized by Building Stronger Universities (BSU) program by Copenhagen University and Sokoine University January, 2012 Training of Trainers for PhD supervisors organized by Building Stronger Universities (BSU) program by University of Copenhagen and Sokoine University September, 2012. Short course on Proposal Development and Project Management, A one week course offered by IFS, 2005. Manuscript preparation and publication of scientific work, offered by Tropical Biology Association (TBA-Cambridge) in Sokoine University of Agriculture Tanzania, 2004. 			
VIII.	LANGUAGES AND DEGREE OF PROFICIENCY	Language	Speaking	Reading	Writing
		English	Fluent	Excellent	Excellent
		Swahili	Fluent	Excellent	Excellent
IX.	COUNTRIES OF WORK EXPERIENCE	TANZANIA			
X.	EMPLOYMENT RECORD			FROM	TO
	Employer: Sokoine University of Agriculture (SUA) Position held: Senior Lecturer			2005	To date

	Employer: Sokoine University of Agriculture Centre for Sustainable Rural Development Position held: Research Assistant (Monitoring and Evaluation)	2003	2005
XI	Founding Member of Seeds of Hope Tanzania (SoH)	2006	To date
	Chairman of Seeds of Hope Tanzania (SoH)	2013	To Date

XII. Works/Consultancies

- Name of assignment:** Development of a strategic plan for Tanzania Spices Association (TASPA), October, 2021 to February, 2022

Client: United Nations (UN) – International Trade Centre (ITC), Geneva

Position held in the team: National Consultant

Description: To study the mission, vision and goals as well as existing and prospective activities and potentials of the Tanzania Spice Association (TASPA) towards improving its ambition of growing and meet stakeholders expectations in Tanzania and thereby develop an appropriate Strategic Plan.
- Name of assignment:** Population Health and Environment Data Collection Survey of the Landscape Conservation in Western Tanzania. September, 2021

Client: Jane Goodall Institute (IGI), Kigoma

Position held in the assignment: Biodiversity expert

Description: To help develop a tool to be used in programming and planning of interventions that foster integration of natural resources management and family planning activities
- Name of assignment:** Baseline study on Behavior Change on the LCWT Composting pilot project. April 2021

Client: Jane Goodall Institute (IGI), Kigoma

Position held in the team: Forest and natural resources expert

Description: To improve data collection tool and eventually carry out focused group discussions, key informants' interviews and questionnaire surveys in compost project intervention zones around the Gombe Masito Ugalla (GMU) landscape.
- Name of assignment:** Baseline vegetation survey for the proposed Mahenge Graphite Project Tanzania. October, 2017

Client: Monic Biosphere Environmental Company

Position held in the assignment: Lead expert in forest biodiversity assessment

Description: To conduct Environmental Impact Assessment (EIA) for the proposed Mahenge Graphite Project focusing of the forest vegetation component

5. **Name of assignment:** Final evaluation for UNDP climate change adaptation support through small grants programme
Year 2018
Client: UNDP
Position held: Climate change impacts adaptation analysis
6. **Name of assignment or project undertaken:** Documentation of the lessons and the best practices for climate smart small-scale agriculture in Kilosa and Chamwino districts. Year 2014
Client: ActionAid Tanzania
Position Held: Main Consultant and conservation expert
Description: To document practices related to climate smart agriculture in Chamwino and Kilosa District

Activities

- (i) Carry out Desk and field surveys to understand what farmers are practicing and/or not practicing to comply with climate smart agriculture best practices
 - (ii) Advise ActionAid on the best lines of actions
7. **Name of assignment or project undertaken:** Final project evaluation on local people perception on environmental management, land rights governance and responses to climate change. Year 2014
Client: HakiArdhi
Position Held in the Team: Main Consultant, land use and tenure analyses
 8. **Name of assignment or project undertaken:** Redrafting of TAHA Strategic Plan . Year 2017.
Client: Tanzania Horticultural Association
Position: Lead Consultant
 9. **Name of assignment:** Strategic Water Harvesting Technologies for Enhancing Resilience to Climate Change in Rural Communities in Semi-Arid Areas of Tanzania (SWAHAT)
Year 2021-2024
Client/Funder: United Nations Adaptation Fund (UN-AF)
Position held in The Team: Agroforestry Expert
Description: Develop and implement participatory afforestation program for locally adapted fruit and forest trees
Activities:
 - (i) Establishment and management of 10 community nurseries in 4 Districts (Nzega, Igunga, Manyoni and Bahi)

- (ii) Selection and collection of germplasm materials from the best adapted tree species for semi arid areas
- (iii) Optimization of propagation methods for each of the selected species under standard nursery establishment and management
- (iv) Planting of 100,000 forest trees and fruits in the catchments and degraded land for conservation of biodiversity and water resources, on farmlands and village forests for wind breaks, erosion and flood control, agroforestry with its associated benefits, woodlots, fruits, apiculture, and construction materials; and along the dams for protection of embankments and the general infrastructure.
- (v) Supply and demonstration of sustainable use of fuel wood through 200 energy saving cooking stoves,

10. Name of Assignment: Assessment of supply capacity of Black Pepper (a crop grown by forest adjacent communities in Tanzania)

Year: 2020

Client: Tanzania Horticulture Association (TAHA)

Position held in The Team: Lead Consultant

Description: Study of the business process analysis of the black pepper value chain in Tanzania

Activities

- (i) Established black pepper volume that can be supplied per month from highest producing hotspots in Tanzania.
- (ii) Advised on the best modality of procuring 4,000 tons of black pepper per year;
- (iii) Suggested the best farm-gate price and suggest selling price
- (iv) Highlighted important cost elements to be considered in building the business case of black pepper

11. Name of Assignment: Restoration And Conservation Of Uluguru Nature Reserve Catchment
Year 2015 to date

Funder: Eastern Arc Mountains Conservation Endowment Fund (EAMCEF)

Position held in the team: Project leader

Description: to restore and conserve degraded watersheds in the Uluguru Mountains by using participatory approaches to mobilize, promote and encourage local community initiatives in the restoration and management of degraded water sources and riparian ecosystems through the use of appropriate and proven conservation technologies in the Mindu Dam Catchments. 10,000 seedlings have been given to farmers and planted,

Activities:

- (i) Comparative survey and assessment of the impacts of the previous activities aimed at watershed restoration for the Mindu Dam.
- (ii) Identify modifications and improvement needs for incorporation into the current planned interventions

12. Name of Assignment: “Empowering communities on Participatory Forest Management, REDD+ and Climate Change initiatives (ECOPRC)”

Year: 2014 - 2018

Client: Norwegian Embassy

Position held in the team: Silviculture expert

Description: To enhance the sustainable management of Tanzania’s natural forest resources in ways that maximize social, economic, environmental and governance benefits for communities engaged in participatory forest management”, REDD+ and climate change initiatives

Activities:

- (i) Development of forest management plans for 25 selected village communities surrounding natural forests in Tanzania
- (ii) Capacity building to farmers and extension officers on participatory forest management in Selected districts in Tanzania
- (iii) Produce training materials and modules for use by farmers and colleges
- (iv) To facilitate horizontal networking at district levels
- (v) To facilitate vertical networking between district and village level stakeholders

13. Name of Assignment: The development and implementation of radio and mobile based extension services for Sustainable Land Management of Lake Nyasa Catchment Project, Tanzania

Year: 2018-2020

Client: Vice Presidents Office, Division of Environment

Position held in the team: Main Consultant

Description: development and implementation of radio and mobile based extension services using local radio stations and mobile phone platforms in order to raise awareness of the local community on sustainable land management that protects Lake Nyasa. % Districts were covered (Kyela, Ludewa, Makete, Mbinga and Nyasa)

Activities:

- (i) Develop capacity building topic areas for afforestation and farming
- (ii) Training of local leaders, extension staff and radio producers of the best way to build the capacity of local communities
- (iii) Production of appropriate radio programs and mobile sms for dissemination
- (iv) Disseminate the capacity building programs to 5,000 radio listeners and 1,500 mobile phones individuals

14. Name of Assignment: Assessment of Fruit Tree Nursery System for Selected Value Chains in Tanzania

Year: 2020

Client: Tanzania Horticulture Association (TAHA)

Position held in the team: Main Consultant

Description: Assessment of the seedlings production and distribution system in Tanzania with a view of identifying opportunities, challenges and practical recommendation to revamp the system

15. Name of Assignment: Development of Guideline for Establishment and Management of Fruit Nursery

Year: 2020

Client: Tanzania Horticulture Association (TAHA)

Position held in the team: Main Consultant

Description: to develop a smart guideline articulating the smart processes (in words and pictorial format) for use to train people in nursery management but also provide a basis for accrediting the nurseries in Tanzania

Activities:

- (i) Collection, review and synthesis of adequate knowledge for understanding nursery establishment and management
 - Review of technical information drawn from the case studies nursery surveying as well as professional expertise in the area
 - Analysis of fruit trees and the respective nursery entrepreneurship ecology/ecosystem
- (ii) Development of a smart fruit trees nursery establishment and guideline
 - Present all the necessary topical areas of coverage
 - Describe nursery entrepreneurship, investment, techniques, operations and regulations
 - Comprehensively use diagrams, pictures and other types of illustrations to make the guideline easy to understand by trainers, trainees and users in nursery management activities

16. Name of assignment or project undertaken: “Developing a strategy for sustainable income generation from, *Prunus Africana*”⁷

Year: 2007-2009.

Client/Funder: REPOA

Position held in the team: Principal Investigator.

Description: Restoration of the populations of *Prunus Africana* in its natural species range in Tanzania

Activities

- (i) Capacity building of farmers Rombo, Mwanga, Hai, Lushoto, Mufindi and Njombe Districts on the importance and threats facing the species as well as the actions needed to restore its populations
- (ii) Improved care of naturally regenerating seedlings
- (iii) Establishment of community nursery for *Prunus africana* to produce 4,000 seedlings

- (iv) Planting the seedlings in agroforestry systems

17. Name of assignment or project undertaken: Assessment of Potentials of and Threats to Traditional Institutions for Community Based Biodiversity Management.

Client: RPSUD.

Position held in the team: Biodiversity and conservation expert.

Description: Restoration of semi-arid areas oases and other water sources.

Activities:

- (i) This activity was carried out in Kahe, Moshi rural to assess the status of the Miwaleni/Rau catchment, the major fresh water source serving the entire Lower Moshi community of rice farmers for irrigation and domestic use.

18. Name of assignment or project undertaken: Assessing the Impact of Refugees' influx in Kasulu – Year 2003

Funder: SIDA

Position held in the team: Principal Investigator

Description: To investigate how refugee's settlement in Mtabila and Nyarugusu camps affects forest species composition

XIII. Publications

1. FTI (2019). Understanding Plantation and Natural Forests. A Handbook for Forestry Practitioners. Eds: J. M. Abdallah, J. Z. Katani, A. N. Suzana, **D. A. Wiso** and R. C. Ishengoma. *Forestry Training Institute (FTI)* – Olmotonyi, Arusha, Tanzania
2. Zahabu, E. M., **Wiso**, D. A., Agustino, S. N. and Abdallah, J. M., (2019). Introduction to Forests. In: FTI (2019). Understanding Plantation and Natural Forests. A Handbook for Forestry Practitioners. Eds: Abdallah, J. M., Katani, J. Z., Augustino, S. N., **Wiso**, D. A. and R. C. Ishengoma. *Forestry Training Institute (FTI)* – Olmotonyi, Arusha, Tanzania
3. Mwakalukwa, E. E., Giliba, R. A., Kitereja, S. N. and **Wiso**, D. A., (2019). Silvicultural Practices. In: FTI (2019). Understanding Plantation and Natural Forests. A Handbook for Forestry Practitioners. Eds: Abdallah, J. M., Katani, J. Z., Augustino, S. N., **Wiso**, D. A. and R. C. Ishengoma. *Forestry Training Institute (FTI)* – Olmotonyi, Arusha, Tanzania
4. **Wiso**, D.A., Giliba, R. A., Mongo, S. and Kitereja, S. N., (2019). Forest Botany: In: FTI (2019). Understanding Plantation and Natural Forests. A Handbook for Forestry Practitioners. Eds: Abdallah, J. M., Katani, J. Z., Augustino, S. N., **Wiso**, D. A. and R. C. Ishengoma. *Forestry Training Institute (FTI)* – Olmotonyi, Arusha, Tanzania
5. FTI (2017). Forestry and Climate: Practices for the Technical Level Foresters. Eds: J.M. Abdallah, J. Z. Katani, A. N. Suzana and **D. A. Wiso**. *Forestry Training Institute (FTI)* – Olmotonyi, Arusha Tanzania

6. Abdallah, J.M., **Woisso, D.A.**, Katani, J.Z., Augustino S.N. and Madalla N.A., 2017. PFM and Climate Change: The Synergy. In: FTI (2017). *Forestry and Climate: Practices for the Technical Level Foresters*. Eds: J.M. Abdallah, J. Z. Katani, A. N. Suzana and **D. A. Woiso**. *Forestry Training Institute (FTI)* – Olmotonyi, Arusha Tanzania
7. Mugasha, W.A., **Woisso, D.A.** and Katani J.Z., 2017. Forests and Climate Change Mitigation. In: FTI (2017). *Forestry and Climate: Practices for the Technical Level Foresters*. Eds: J.M. Abdallah, J. Z. Katani, A. N. Suzana and **D. A. Woiso**. *Forestry Training Institute (FTI)* – Olmotonyi, Arusha Tanzania
8. **Woisso, D.**, 2016. Comparative analysis of selected factors affecting fruit phenotype and yield of *Sclerocarya birrea* in Tanzania. *Tanzania Journal of Agricultural Sciences (TAJAS)*. Vol. 13, No 2.
9. **Woisso, D.**, Agea, J., Okia, C., Kimondo, J., Abdallah, J., Shemdoo, R., Teklehaimanot, Z. and Mwang'ingo, P., 2014. Comparison of the subspecies of *Sclerocarya birrea* by Sex and environment. *Tanzania Journal of Forestry and Nature Conservation*, Volume 83(2)
10. Kimondo, J., Agea, J., Okia, C., **Woisso, D.**, Refaat, A., Mutalya, J and Zewge, T., 2014. Distribution and regeneration status of *Vitex payos* (Lour.) Merr. In Kenyan drylands. *Journal of Horticulture and Forestry* Vol. 6(9), 81-91 pp
11. **Woisso, D.**, Shemdoo, R., Agea, J., Okia, C., Kimondo, J., Teklehaimanot, Z. and Mwang'ingo, P., 2014. Regeneration, soils and associates of the three subspecies of *Sclerocarya birrea* in Tanzania. *Agricultural Journal* Vol 9 Issue4: 173-182 pp
12. Abdallah, J., **Woisso, D.**, Monela, G and R Phillip., 2014. Productive Efficiency of Small Scale Sawmilling Industries in Mufindi District. *Tanzania Journal of Forest and Nature Conservation* Volume 84 (2): 79-98
13. Agea, J., Kimondo, J., **Woisso, D.**, Okia, C., Obaa, B., Isubikalu, P., Okulo, J., Obua, J., Hall, J., and Teklehaimanot, Z., 2014. Nutritionally Essential Macro and Micro Minerals Contents of Fifteen Selected Leafy Wild and Semi-Wild Food Plants (WSWFPs) from Bunyoro-Kitara Kingdom, Uganda. *Journal of Natural Products and Plant Resources* Volume 4 (4):35-42 pp
14. Agea, J., **Woisso, D.**, Okia, C., Kimondo, J., Obaa, B., Isubikalu, P., Obua, J and Teklehaimanot, Z., 2013. Market structure of wild and semi-wild food plants traded in Bunyoro- Kitara Kingdom. *International Journal of Medicinal and Aromatic Plants*, Vol.3 No. 2, 300-316 pp
15. Agea, J., Okia, C., Kimondo, J., Obaa, B., Isubikalu, P., **Woisso, D.**, Obua, J and Teklehaimanot, Z., 2013. Impediments, opportunities and strategies to enhance trade of wild and semi-wild food plants in Bunyoro- Kitara Kingdom, Uganda. *African Journal of environmental sciences and technology*, Vol 7 (6), 472-481 pp
16. Agea, J., Okia, C., Kimondo, J., **Woisso, D.**, Obaa, B., Obua, J., Isubikalu, P., and Teklehaimanot, Z., 2013. Harvesting, Preparation and Preservation of commonly consumed wild and semi-wild food plants in Bunyoro-Kitara Kingdom, Uganda. *International Journal of Medicinal and Aromatic Plants*, Vol.3 No. 2, 262-282 pp.

17. Agea, J., **Woisso, D.**, Okia, C., Kimondo, J., Obaa, B.,, Isubikalu, P., Obua, J and Teklehaimanot, Z., 2013. Market conduct and performance of wild and semi-wild food plants traded in Bunyoro-Kitara Kingdom, Uganda. *African Journal of environmental sciences and technology*, Vol 7 (6), 457-471 pp
18. Kimondo, J., Agea, J., Okia, C., **Woisso, D.**, Refaat, A., Nghiitolwa, E., Mutalya, J and Zewge, T., 2012. Physiochemical and nutritional characterization of Vitex payos (Lour.) Merr. (Verbenaceae): an indigenous fruit tree of Eastern Africa. *Journal of Horticulture and Forestry* Vol. 4(10), 161-168 pp.
19. **Woisso, D.**, 2011. A comparative study of the subspecies of Sclerocarya birrea: Their potential for domestication in Tanzania. PhD Thesis, Bangor University, UK
20. **Woisso, D.**, Shemdoe, R.S, and Kayeye H. 2009. Potentials of and Threats to Traditional Institutions for Community Based Biodiversity Management in Dryland Areas of Lower Moshi, Tanzania. *Forest Science*. 25 (3):117-185
21. Madoffe, S., **Woisso, D.**, and Mombo., F., 2010. Developing a strategy for sustainable income generation from a valuable medicinal plant, Prunus africana in Tanzania. *Research on Poverty Alleviation (REPOA)*
22. **Woisso D.**, 2006. Ethnobotanical study and variation of *Prunus africana* population found in Northern Tanzania. *British Ecological Society*, Volume 37:4, pp 55-56.
23. Monela G., Mombo F., **Woisso D.**, and Mghumia F., 2005. Local People's perception in community based forest management program in Duru-Haitemba, Tanzania. *Rural Planning Journal* Vol. VII No. 2 pp 59-72
24. **Woisso D.**, 2005. Planting *Prunus africana* in Chagga homegardens, Northern Tanzania. Rufford Projects available at <http://www.rufford.org/rsg/Projects/DinoAndrew>
25. **Woisso D.**, 2003. Management and utilization of miombo woodland forests: Impact of refugees influx in Kasulu district. *Swedish Biodiversity Centre, Masters Theses 03*