



## JOHN MULWA NDISYA

P.O Box 43844 – 00100 Nairobi, Kenya

Phone: (+254) 724 049 966

Email: [ndisya.john@ku.ac.ke](mailto:ndisya.john@ku.ac.ke), [jndisyas@daad-alumni.de](mailto:jndisyas@daad-alumni.de), [jndisyas@gmail.com](mailto:jndisyas@gmail.com)

### EDUCATION

Period	Education Details
2018 - to - date	<b>Ph.D.</b> Environmental & Biosystems Engineering, University of Nairobi
2013 - 2015	<b>M.Sc.</b> Environmental & Biosystems Engineering, University of Nairobi
2007 - 2012	<b>B. Sc.</b> Environmental & Biosystems Engineering ( <b>First Class</b> ), University of Nairobi
2002 - 2005	Kenya Certificate of Secondary Education ( <b>KCSE</b> ), Kabaa High School, Machakos County

### PROFESSIONAL QUALIFICATIONS AND MEMBERSHIPS

Qualification	Organisation
Graduate Engineer	Engineers Board of Kenya, EBK
Member	Association of German Engineers (Verein Deutscher Ingenieure - VDI)
Member	American Society of Agricultural & Biological Engineers, ASABE
Member	Kenya Society of Environmental, Biological and Agricultural Engineers, KeSEBAE
Associate Expert	National Environment Management Authority, Kenya
Member	Environment Institute of Kenya, EIK

### HONOURS AND AWARDS

Year	Honour/ Award
2018	German Academic Exchange Service (DAAD) Doctoral scholarship
2016	Davis & Shirliff prize and commemorative plaque for the best final year project in Environmental & Biosystems Engineering
2013	University of Nairobi Scholarship to undertake Master of Science studies

**WORK HISTORY**

Period	Work Details
2020 – to – date	Tutorial Fellow, Kenyatta University, Department of Agricultural & Biosystems Engineering, Nairobi, Kenya
2015 – 2019	Technical Manager & Consultant – Engineering & Environmental Services, Log Associates Ltd., Nairobi, Kenya
2014 – 2015	Graduate Engineer, Log Associates Ltd., Nairobi, Kenya
2014 – 2015	Evening tutor, University of Nairobi, Department of Environmental & Biosystems Engineering, Nairobi, Kenya
2013	Engineering Management Trainee, Trufoods (K) Ltd., Nairobi, Kenya
2012	Short term consultant, UNESCO-UNITWIN Chair at the University of Nairobi, Kenya
2011	Engineering Trainee, SAMEZ Consulting Engineers Ltd., Nairobi, Kenya

**PUBLICATIONS****Journal publications**

1. **Ndisya, J.**, Mbuge, D., Kulig, B., Gitau, A., Hensel, O. and Sturm, B. (2020). Hot air drying of purple-speckled Cocoyam (*Colocasia esculenta* (L.) Schott) slices: Optimisation of drying conditions for improved product quality and energy savings. *Thermal Science and Engineering Progress*, 18, 100557. doi:10.1016/j.tsep.2020.100557
2. **Ndisya, J.**, A. N. Gitau, D. O. Mbuge, and A. W. Hiuhu. (2016). *Investigation of the effect of rake angle on draft requirement for ripping in sandy clay. Agricultural Engineering International: CIGR eJournal*, 18(4):52-69.
3. **Ndisya, J.**, Gitau, A., Mbuge, D. and Hiuhu, A. (2016) The Effect of the Operational Parameters on the Draft Requirement of Ripping in a Sandy Clay Soil. *Open Journal of Optimization*, 5, 1-13. doi: 10.4236/ojop.2016.51001
4. Hiuhu, A., Gitau, A., Mbuge, D. and **Ndisya, J.** (2015) Optimization of the Angle of Frog in Mouldboard Tillage Operations in Sandy Clay Soil. *Open Journal of Optimization*, 4, 131-140. doi: 10.4236/ojop.2015.44013

**Conference papers**

1. **Ndisya, J.**, Gitau, A., Roman, F., Mbuge, D., Kulig, B., Hensel, O. and Sturm, B (2021). *Influence of air velocity and corm size on cooling behaviour*. 5th CIGR International Conference 10.11. – 14.11.2021, Québec City, Canada.
2. Sturm, B., Raut, S., Chikpah, S.K., **Ndisya, J.**, Hensel, O., Esper, A., Korese, J.K. (2020). *Improving nutritional security in sub-Saharan Africa through the production of dried products from underutilised species*. International Drying Symposium 2020, 27.06. – 01.07. 2020, Worcester, Massachusetts, USA.

3. **Ndisya, J.**, Mbuge, D.O, Kulig, B., Gitau, A.N, Hensel, O. and Sturm, B. (2019). *Investigation of the drying behaviour of Cocoyam (Colocasia esculenta (L.) Schott)*. 15th RuForum Annual General Meeting 02.12 – 06.12.2019, Cape Coast, Ghana.
4. **Ndisya, J.**, A. N. Gitau, D. O. Mbuge, and A. W. Hiuhu. (2018). *A review of the effect of rake angle on draft requirement for ripping in sandy clay*. The Pan African Society for Agricultural Engineering (PASAE) Conference 25.03 – 28.03.2018, Nairobi, Kenya.

#### **Posters**

1. **Ndisya, J.**, Mbuge, D.O, Gitau, A.N, Kulig, B., Hensel, O. and Sturm, B. (2019). *A scoping study of the Cocoyam (Colocasia esculenta (L.) Schott) Value chain in Kenya: Production, post-harvest handling and consumption behaviour*. 15th RuForum Annual General Meeting 02.12 – 06.12.2019, Cape Coast, Ghana.