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QUALIFICATIONS

2011	PhD, Soil Science, University of Nottingham, United Kingdom
2004	PGDip, Public Administration & Civil Service Management, Galilee College, Israel and University of Malawi (UoM)
1997	MSc, Agronomy, Bunda College of Agriculture-UoM
1993	Postgraduate Soil Science courses, North Carolina State University, USA.
1989	BSc Agriculture, Bunda College of Agriculture-UoM
1981	Diploma in Agriculture, Bunda College of Agriculture-UoM

EMPLOYMENT

2017- Present:	Mananging Director of Agriso Consultants
2016–2017:	Senior Deputy Director of Agricultural Research Services responsible for Technology Development in the Department of Research.
2008-2016:	Senior Deputy Director of Agricultural Research Services (P3) and heading Lunyangwa Agricultural Research Station.
2012-2014:	Appointed Supervisor for a PhD student, University of Nottingham, UK.
2012-2013:	Appointed supervisor for MSc student at Lilongwe University of Agriculture and Natural Resources
2000-2008	National Research Coordinator for Soils and Agricultural Engineering Commodity Group, responsible for leading research in soils and providing soils advisory services to farming communities.
2005-2008	Acting Deputy Director of Agricultural Research Services (P3), heading Chitedze Agricultural Research Station, Lilongwe.
2004-2005	Acting Assistant Director of Agricultural Research Services (P4), worked as Deputy Station Manager for Chitedze Agricultural Research Station.
2000-2004	Chief Soil Scientist (P5) and Commodity Team Leader for Soils Commodity Team, Malawi.
1995-1999	Principal Soil Scientist (P7) and Commodity Team Leader for Soils Commodity Team in Malawi.
1989-1994	Soil Scientist (PO), Bvumbwe Agricultural Research Station

EXPERTISE SUMMARY

From 2016 to 2017 was Senior Deputy Director of Agricultural Research Services responsible for Technology Development in the Department of Research Services in Malawi to ensure that the Department was conducting relevant research that addresses farmers' problems and that Research Scientists were publishing papers from their research work. From 2004 to 2017 has been in management positions in the Department of Agricultural Research Services. I was the Head of Chitedze Agricultural Research Station for three years then headed Lunyangwa Agricultural Research Station for 8 years. In addition, I have been Senior Government Soil Scientist with over 20 years experience in soil fertility and plant

nutrition, integrated soil fertility management, soil survey, soil and water conservation and fertilizer use research in Malawi, have generated several technologies and introduced the use of universal soil extractants in Malawi soils laboratories, provided expertise to government in fertilizer use in Malawi and was among government officials who provided technical expertise on the supply and the implementation of fertilizer subsidy in Malawi. National Research Coordinator for Soils and Agricultural Engineering Commodity Group, responsible for providing leadership in soils research and provision of analytical and advisory services to farming communities. In recent years, have been involved with several projects with the University of Nottingham and APPSA.

FEW EXAMPLES OF ACHIEVEMENTS WHILE AT LUNYANGWA AS HEAD OF STATION

(a) Established Soils laboratory at the station which has greatly improved delivery of advisory services such fertilizer recommendation, testing of Canabis sativa (Indian hemp) and fertilizer quality control
(b) Completed Tissue Culture Laboratory at the station which enable enable farmers' access clean planting materials such as banana, coffee, cassava and many more crops
(c) Compost manure making Demonstration Farm established under the assistance of JICA Project and proper management of the same, has helped many farmers to learn how to make compost manure in their fields.
(d) Human capacity building at the station has seen many officers acquiring their Diplomas, first degrees and post graduate qualifications and this development has uplifted the status of the station.
(e) Maintenance of infrastructures at the station has seen station manager's house rehabilitated which was not habitable for many years, station manager office renovated, septic tank for the station constructed, landscaping of the station ground, construction of executive toilet,
(f) Managed to purchase a new pick up using ORT, and a new engine for one of the old vehicles
(g) The station was able to implement all the research programmes and provide regulatory services to the farming communities.

PUBLICATIONS

Ligowe, L.C., Young, S.D., Ander, E.L., Kabambe, V., **Chilimba, A.D.C.**, Bailey, E.H., Lark, R.M., Nalivata, P.C. 2020. Agronomic biofortification of leafy vegetables grown on an Alfisol and Vertisol with isotopically labelled selenium (^{77}Se). Geoderma 361, 114106.

Ligowe, L.S., Young, S.D., Ander, E.L., Kabambe, V. **Chilimba, A.D.C**. E.H. Bailey, E.H, Lark R.M., Nalivata P.C. 2020. Selenium biofortification of crops on a Malawi Alfisol under conservation agriculture. Geordema 369, 114315.

Phiri, F.P., Ander, E.L. Bailey, E.H., Chilima, B., **Chilimba, A.D.C**., Gondwe, J., Joy E.J.M., Kalimbira, A.A., Kumssa D.B., Lark, R.M., Phuka J.C., Salter, A., Suchdev, P.S., Watts M.J., Young, S.D., Broadley M.R., 2019. The risk of selenium deficiency in Malawi is large and varies

over multiple spatial scales. Scient. Reports, 9, https://doi.org/10.1038/s41598-019-43013-z.

Masanza, B., Maida, J.H.A., **Chilimba, A.D.C.**, Lowole, M.W., Nalivata, P.C., 2016. Liming and selenium application effects on selenium uptake by maize (*Zea mays*) and selenium contents in maize grain. Inter J Dev Res. 6,7280-7289.

Joy, E.J.M., Broadley, M.R., Young, S.D., Black, C.R., **Chilimba, A.D.C**., Ander, E.L., Barlow, T.S. Watts, M.J., 2015a. Soil type influences crop mineral composition in Malawi. Sci. Total Environ. 505, 587 – 595.

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Kabambe, V.H., **Chilimba, A.D.C**., Ngwira, A., Mbawe, M., Kambauwa, G., Mapfumo, P., 2011. Using innovation platforms to scale out soil acidity-ameliorating technologies in Dedza district in central Malawi. Afr. J. Biotechnol. 11, 561-569.

Chilimba, A.D.C. and Nkosi, D. 2014. Malawi fertilizer recommendations for maize production based on soil fertility status. Department of Agricultural Research Services, Lilongwe, Malawi, 40 pp

Siyame EWP, Hurst R, Wawer AA, Young SD, Broadley MR, **Chilimba ADC**, Ander EL, WATTS MJ, Chilima B, Gondwe J, Kang'ombe D, Kalimbira A, Fairweather-Tait SJ, Bailey KB, Gibson RS (2014). High prevalence of zinc- but not iron-deficiency among women in rural Malawi: a cross-sectional study. International Journal for Vitamin and Nutrition Research, in press.

Joy EJM, Ander EL, Young SD, Black CR, WATTS MJ, **Chilimba ADC**, Chilima B, Siyame EWP, Kalimbira AA, Hurst R, Fairweather-Tait SJ, Stein AJ, Gibson RS, White PJ, Broadley MR (2014). Dietary mineral supplies in Africa. Physiologia Plantarum, DOI: 10.1111/ppl.12144.

Hurst R, Siyame EWP, Young SD, **Chilimba ADC**, Joy EJM, Black CR, Ander EL, Watts MJ, Chilima B, Gondwe J, Kang'ombe D, Stein AJ, Fairweather-Tait SJ, Gibson RS, Kalimbira A, Broadley MR (2013). Soil-type influences human selenium status and underlies widespread selenium deficiency risks in Malawi. *Scientific Reports*, in press.

Broadley MR, **Chilimba ADC**, Joy E, Young SD, Black CR, Ander EL, Watts MJ, Hurst R, Fairweather-Tait SJ, White PJ, Gibson RS (2012). Dietary

requirements for magnesium but not calcium are likely to be met in Malawi based on national food supply data. *International Journal for Vitamin and Nutrition Research*, in press.

Chilimba, A.D.C., Young, S.D., Black, C.R., Rogerson, K.B., Ander, E.L., Watts, M., Lammel, J., Broadley, M.R. 2011. Maize grain and soil surveys reveal suboptimal dietary selenium intake is widespread in Malawi. Scientific Reports, 1, 72; DOI:10.1038/srep00072

Chilimba, A.D.C., Young, S.D., Black, C.R., Meacham, M.C., Lammel, J., Broadley, M.R. 2012. Agronomic biofortification of maize with selenium (Se) in Malawi. *Field Crops Research, 125:118-128***.**

Chilimba, A.D.C., Black, C.R., Lammel, J., Meacham, M.C., Young, S.D., Broadley, M.R**.** 2009. Agronomic biofortification of maize (*Zea mays* L.) with selenium in Malawi. In: Banuelos GS, Lin Z-Q, Yin X eds. *Selenium deficiency toxicity and biofortification for human health*. pp 77-78. Hefei, China: University of Science and Technology of China Press.

Chilimba, A.D.C. Young, S.D., Black, C.R. Meacham, M.C., Lammel, J., Broadley, M.R. 2011. The fate of applied Se in a maize cropping system in Malawi. China: *University of Science and Technology of China Press.* In press.

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Kabambe, V. H., **Chilimba, A. D. C**., Ngwira, A., Mbawe, M., Kambauwa, G. and Mapfumo, P. 2012. Using innovation platforms to scale out soil acidity- meliorating technologies in Dedza district in central Malawi. African Journal of Biotechnology, 11(3): 561-569. Available online at http://www.academicjournals.org/AJB. DOI: 10.5897/AJB10.2227

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REFEREES

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