

SAMPLE PROFILE PAGE

Name	Dr. Alice A. Onyango
Qualification	PhD. Agricultural Sciences; MSc. Chemistry; B.Ed (Science); Dip. Marketing Management
Picture (JPEG or better)	
Department	Department of Chemistry
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Brief Bio	An early career scientist interested in application of multidisciplinary knowledge and experiences to quantify and mitigate greenhouse gas emissions from smallholder livestock farming systems.
Current Research: We also need past research activities	She has worked in smallholder farming systems in Western Kenya focusing on developing methodologies and datasets to estimate the contribution of smallholder crop-livestock systems to greenhouse gas emissions aimed at evaluating interventions to improve the welfare of smallholder farmers by increasing production while mitigating climate change. For this she is interested in: 1) building datasets from smallholder households to characterize the production systems with an aim to better evaluate possible interventions that sustainably optimize the systems; and 2) improving estimates and developing algorithms to estimate nutritive quality of tropical ruminant feedstuffs aimed at enhancing animal nutrition and consequently productivity under resource constraints.
Publications:	<ol style="list-style-type: none"> 1. Onyango, A.A., Dickhoefer, U., Rufino, M.C., Butterbach-Bahl, K., Goopy, J.P., 2018. Temporal and spatial variability in the nutritive value of pasture vegetation and supplement feedstuffs for domestic ruminants in Western Kenya. <i>Asian-Australasian J. Anim. Sci.</i> https://doi.org/10.5713/ajas.18.0114 2. Onyango A.A. (2018). Contribution of smallholder ruminant livestock farming

SAMPLE PROFILE PAGE

	<p>to enteric methane emissions in Lower. University of Hohenheim. PhD Thesis. http://opus.unihoenheim.de/volltexte/2018/1457/pdf/Diss_Alice_Onyango.pdf</p> <ol style="list-style-type: none"> 3. Goopy J.P., Onyango A.A., Dickhoefer U., Butterbach-bahl K., 2018. A new approach for improving emission factors for enteric methane emissions of cattle in smallholder systems of East Africa – Results for Nyando, Western Kenya. <i>Agric. Syst.</i> 161, 72–80. https://doi.org/10.1016/j.agsy.2017.12.004 4. Goopy J.P., Pelster D.E., Onyango A.A., Marshall K., Lukuyu M. (2017) Simple and robust algorithms to estimate liveweight in African smallholder cattle. <i>Animal Production Science</i>, -. https://doi.org/10.1071/AN16577 5. Onyango A.A., Lalah J.O., Wandiga S.O. and Gichuki J. (2012) Assessment of Polycyclic Aromatic Hydrocarbons in <i>Oreochromis niloticus</i>, <i>Lates niloticus</i> and <i>Rastrineobola argentea</i> as sources of Human Exposure in Kisumu Bay, Winam Gulf of Lake Victoria. <i>Bulletin of Environmental Contamination & Toxicology</i> 88(5) p747-750. https://doi.org/10.1007/s00128-012-0567-1 6. Onyango A.A., Lalah J.O., Wandiga S.O. (2012) The Effect of Local Cooking Methods on Polycyclic Aromatic Hydrocarbons (PAHs) Contents in Beef, Goat Meat and Pork as Sources of Human Exposure in Kisumu City, Kenya. <i>Journal of Polycyclic Aromatic Compounds</i> 32:5, 656-668. https://doi.org/10.1080/10406638.2012.725195
Attachment	<p><i>Employment history</i> Since 2014: Tutorial Fellow, Lecturer, Maseno University, Kenya 2012 - 2014: Research Assistant, Maseno University - International Livestock Research Institute, Kenya 2008 - 2012: Deputy Principal Teacher, Teachers’ Service Commission, Kenya 1998 - 2012: Secondary School Teacher, Teachers’ Service Commission, Kenya</p> <p><i>Role and responsibilities</i></p> <ul style="list-style-type: none"> - Joint research proposal-writing - Supervision and training of students - Teaching of students - Scientific research on sustainable smallholder farming systems and greenhouse gas emissions
Digital Footprint	<p>https://orcid.org/0000-0001-8754-6556 https://www.scopus.com/authid/detail.uri?authorId=54990182700</p>