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### University education

September 2015- 2018: **PhD. Environmental Science**

*Bangor university, United Kingdom (UK).*

Research topic: “Land Use/Cover Change Impacts on Water and Energy Balance in East Africa Region”.

May 2012- 2015: **Msc. Environmental Engineering and Management**

*Jomo Kenyatta University of Agriculture and Technology (JKUAT).*

Thesis title: “Assessment of Hydrological Responses to Climate Change in Mt. Elgon Watersheds, Kenya”.

2007- 2011: **Bachelor of Environmental Planning and Management (First Class Honors)**

*Kenyatta University.*

### Research interests

Hydrological modeling; Watershed management; Application of Remote Sensing and GIS in water and land resource management; Water quality monitoring; Groundwater modeling; Climate change impacts assessment, Programming and data analysis in R software, Environmental Impact Assessment

### Publications in refereed journals

1. Coulibaly, Y.J., Mbow, C., Sileshi, G.W., Beedy, T., Kundhlande, G. and **Musau, J.** (2015) Mapping Vulnerability to Climate Change in Malawi: Spatial and Social Differentiation in the Shire River Basin. *American Journal of Climate Change*, 4, 282- 294.  
<http://dx.doi.org/10.4236/ajcc.2015.43023>
2. **Musau, J.**, Sang, J., Gathenya, J., Luedeling, E. (2015), Hydrological responses to climate change in Mt. Elgon watersheds. *Journal of Hydrology: Regional Studies*,  
<http://dx.doi.org/10.1016/j.ejrh.2014.12.001>
3. **Musau, J.**, Sang, J., Gathenya, J., Luedeling, E. and Home, P. (2014), SWAT model parameter calibration and uncertainty analysis using the HydroPSO R package in Nzoia Basin, Kenya, *Journal of Sustainable Research in Engineering* 1 (3) 2014, 17-29,  
[https://www.researchgate.net/publication/296402467\\_SWAT\\_model\\_parameter\\_calibration\\_and\\_uncertainty\\_analysis\\_using\\_the\\_HydroPSO\\_R\\_package\\_in\\_Nzoia\\_Basin\\_Kenya](https://www.researchgate.net/publication/296402467_SWAT_model_parameter_calibration_and_uncertainty_analysis_using_the_HydroPSO_R_package_in_Nzoia_Basin_Kenya)