DEPARTMENT OF EARTH SCIENCES (EASC)

Name of Faculty/Staff: Dr. Barnabas K. Kurgat

Designation/Rank: Lecturer

Also Ag. COD for Earth Science Department

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Educational Background:

- PhD in Agricultural Sciences (Plant -microbe interactions), Humboldt University of Berlin, Berlin, Germany, 2018
- Master's in Agricultural Science degree in Tropics and Sub-tropics (specializing in Natural Resource Management), University of Hohenheim, Stuttgart, Germany, 2011
- Bachelor of Science in Natural Resource Management, Egerton University, Njoro, Kenya, 2007

Brief Autobiography of the Faculty/Staff

Dr. Barnabas Kurgat has over 8 years teaching and research experience in areas of, climate studies, natural resource management and sustainable agricultural production systems. He has previously worked on Cross-continental network for sustainable adaptation of grassland systems vulnerable to climate change (GrassNet) and Horticultural Innovation and Learning for Improved Nutrition and Livelihood in East Africa (HORTINLEA) project as a research fellow. He has also carried out a number of consultancy work on environmental matters and of climate change studies.

Selected Publications

1. **Kurgat BK**, Lamanna C, Kimaro A, Namoi N, Manda L and Rosenstock TS (2020) Adoption of Climate-Smart Agriculture Technologies in Tanzania. Front. Sustain. Food Syst. 4:55. doi: 10.3389/fsufs.2020.00055
2. **Kurgat, B.K.**, Stöber, S., Mwonga, S., Lotze-Campen, H., Rosenstock, S. (2018). Livelihood and climate trade-offs in Kenyan peri-urban vegetable production. *Agricultural Systems*, 160, 79-86.
3. **Kurgat**, **B.K.**, Ngenoh, E., Bett, H., Stöber, S., Mwonga, S., Lotze-Campen, H., Rosenstock, S. (2018) Drivers of Sustainable intensification in Kenyan Peri-urban and rural vegetable production. *International Journal of Agricultural Sustainability*. https://doi.org/10.1080/14735903.2018.1499842

4. Stöber, S., Chepkoech, W., Neubert, S., **Kurgat**, B., Bett, H., & Lotze-Campen, H. (2017). Adaptation Pathways for African Indigenous Vegetables' Value Chains. 413-433. doi:10.1007/978-3-319-49520-0_25
5. Cheruiyot, M. K., **Kurgat, B. K.,** Muturi, W., Kosgey, I. S. (2014). Assessment of Urban Cattle Keeping Patterns and Waste Disposal Mechanisms in Nakuru Municipality, Kenya. *Journal of Natural Sciences Research*, 4 (16), 138-144.
6. Cheruiyot, M. K., **Kurgat, B. K.,** Muturi, W., Kosgey, I. S. (2014). Environmental Effects of Urban Cattle Keeping in Nakuru Municipality, Kenya. *Journal of Natural Sciences Research,* 4 (18), 113-119.

Research Interest

1. Assessment of greenhouse gases (GHGs) fluxes in smallholder agricultural production systems in tropical and sub-tropical regions
2. An evaluation of climate –smart Agricultural (CSA) technologies, diffusion rates in smallholder agricultural production systems and its impacts on household livelihoods, food security and environment
3. An analysis agricultural production, livelihoods and environmental/ecological trade-offs in tropical ecosystems