

UKUDLA RESEARCH CLUSTERS SEMINAR SERIES 2026

Every Friday at 10h00 (SAST)

08 MAY

Dr Kimon Kieslich

Socio-technical futures of food systems

Mmasechaba Moropane

Harnessing Big Data analytics to understand the role of non-perennial rivers on food security in Greater Letaba Basin, Limpopo, South Africa

22 MAY

Oloni Kama

A multi-omics and environmental modelling approach to resistance in stored-grain insect pests

Lackson Jamu

Data-driven analysis of roles of mobile-based agricultural platforms in influencing youth engagement and performance in farming in Lilongwe District, Malawi

05 JUNE

Abdirahman Mohamed

Leveraging data science for Nutritional analysis and dietary strategies

Pascal Nsumba

Integrating IoT and Data Science in post-harvest technologies for sustainable food chains

03 JULY

McDonald Chabwera

Leveraging Data Science to address oversupply of agricultural produce (sweet potatoes and mangoes) for livelihoods improvement in Malawi

Mareike Aufderheide-Voigts

Soil water dynamics and rehydration management in semi-arid rangelands of Southern Africa

17 JULY

Noluthando Ngwenya

Comparative analysis of microbial profiles and fermentative capacity of abattoir and faecal inocula modelled to cannulated cattle rumen inoculum

Dr Blessings Masuku

Integration of indigenous and scientific knowledge in Africa's urban food systems and climate adaptation: learning from local communities for a sustainable future

07 AUG

Munyaradzi Njera

Towards effective hybrid modelling for water management in semi-arid farming systems

Jones Kanjira

Machine Learning (ML) and Internet of Things (IoT)-enabled soil health diagnostics for fertiliser decision-making in smallholder farming systems in Lilongwe District, Malawi

21 AUG

Jordan Chaya

Post-harvest losses at the Joburg Market: determinants and extent

Brenda Matewera

Maize yield prediction using conventional and Machine Learning techniques

04 SEPT

Rejoice Mutema

Exploring people-generated food system transformation pathways from below: the role of small-scale farmers in feeding the urban poor and curbing food insecurity in Johannesburg, South Africa

Lindizgani Ndovie

Enhancing Malawi's food composition tables for dynamic nutrition surveillance and policy support using Data Science

18 SEPT

Kondwani Banda

Engineering and evaluation of microbially produced biosurfactants for biofilm control in food processing systems

Kabir Adekunle Adelakun

Mapping and predicting human-wildlife conflict in communal rangelands bordering Manyeleti Game Reserve using socio-ecological and Data Science approaches

02 OCT

Dr Adele Barker

Comparative multi-omics analysis of drought stress responses between pearl millet and maize

Loren Hannah Trerise

Mechanistic insight into the antifungal potential of gallic acid against fusarium wilt

06 NOV

Niko Single-Liertz

From compliance to transformation: analysing impacts of corporate due diligence in agricultural supply chains

Mercy Bwanaisa

Assessing food systems resilience in Malawi: historical patterns and future pathways

20 NOV

Julia Blohm

Non-invasive livestock health monitoring, parasite load estimation and detection of reproductive status using thermal optics, lidar scanners and drones

Florian Fechter

Seasonal risk phases at shared water points in the Kruger periphery (Mpumalanga, South Africa): an indicator- and metagenomics-informed approach for spatio-temporal interface risk mapping