



UNIVERSITY OF  
HOHENHEIM



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## Research in Africa

Research projects of the University of Hohenheim (2010 - 2021)

[www.uni-hohenheim.de/en/africa](http://www.uni-hohenheim.de/en/africa)

## Research Center for Global Food Security and Ecosystems (GFE)

The research center GFE supports collaborative research projects that address inter- and transdisciplinary research in global food security and ecosystems. We act as platform for the development and implementation of research projects. We offer a range of services for scientists from the joint proposal development to knowledge management and dissemination. We also help to coordinate research activities with and for Africa.

Contact: Carolin Callenius  
[carolin.callenius@uni-hohenheim.de](mailto:carolin.callenius@uni-hohenheim.de)  
<https://gfe.uni-hohenheim.de>



## Tropen Hohenheim - Hohenheim Tropics

The “Hohenheim Tropics” Network is acting as an information and communication hub for research and education related to tropical agriculture. A tight link to the Institute of Agricultural Sciences in the Tropics (Hans-Ruthenberg-Institute) provides long-term experience and a well-maintained interdisciplinary research network. We provide access to national and international partners, institutions, organizations and scientific events such as the annual Tropentag Conference. We offer internal or associated fellowship and travel support options for MSc and PhD students as well as Post-Doc scientists.

Contact: Dr. Marcus Giese  
[m.giese@uni-hohenheim.de](mailto:m.giese@uni-hohenheim.de)  
<https://tropen.uni-hohenheim.de>

**Hohenheim Tropics**  
tropen.uni-hohenheim.de

## Impressum

Status of the information gathered: January 2021.

**If you want to add your project or change any content, please contact [Afrika@uni-hohenheim.de](mailto:Afrika@uni-hohenheim.de)**

VisdP Carolin Callenius, University of Hohenheim – GFE (702)

## Foreword



The University of Hohenheim has a long-lasting tradition working in the tropics and subtropics. Our biggest and longest, yet most interdisciplinary project was the DFG-funded Special Research Program "Adapted Farming in West-Africa" (1985-1999). Since that time a lot has happened. Hohenheim today works across all faculties with a variety of partners all over Africa. We collaborate in research and education with universities, national research organization, and international organizations based in Africa. Looking back at research work that has been carried out over the past 10 years in Africa, we counted approximately 200 projects. This makes us proud as it shows that Research in Africa is not just an empty slogan but a true focus of our University.

As we look into the future, we realize that there are still a lot of research questions that need to be addressed; community food security aspirations that should be fulfilled, and challenges to the realization of Sustainable Development Goals that remain high. We are convinced that science and partnerships will play an even more critical role in developing transformation pathways out of these challenges.

For the first time, the University of Hohenheim has put together a brochure that summarizes information from a compendium of completed and ongoing research projects. This brochure presents information of Hohenheim research projects in Africa over the past 10 years. We hope that this will help to connect loose ends and strengthen the networks among different departments at the University of Hohenheim and beyond.

Wishing you very good reading!

A handwritten signature in black ink, appearing to read 'Stephan Dabbert'.

Prof. Dr. Stephan Dabbert  
President of the University

A handwritten signature in black ink, appearing to read 'Mizeck Chagunda'.

Prof. Dr. Mizeck Chagunda  
Director of the Hans-Ruthenberg-Institute



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## Faculty of Agricultural Sciences

### Institute of Soil Science and Land Evaluation (310)

#### Dept. of Soil Science and Pedology (310a)

Contact: Prof. Dr. Ludger Herrmann, [ludger.herrmann@uni-hohenheim.de](mailto:ludger.herrmann@uni-hohenheim.de)

- **Exploring new pathways of agro-ecological intensification of millet-based subsistence-oriented agriculture in Niger**  
Duration: 03/2019 - 02/2023 (McKnight Foundation)  
Region: West Africa  
Countries: Niger
- **Seedball – SMIL: The seed ball technology - a transdisciplinary approach to its development and implementation into Sahelian pearl millet production systems**  
Duration: 04/2014-09/2017 and 04/2019 - 09/2022 (United States Agency for International Development (USAID))  
Region: West Africa  
Countries: Niger, Senegal

#### Dept. of Biogeophysics (310d)

Contact: Prof. Dr. Thilo Streck, [thiol.streck@uni-hohenheim.de](mailto:thiol.streck@uni-hohenheim.de)

- ▪ **Use of plant growth models and seasonal weather forecast for yield stabilization under vulnerable crop cultivation conditions**  
Bilateral SDG-Graduate school “Climate Change Effects on Food Security (CLIFOOD)”  
Duration: 08/2021 – 07/2025 (German Academic Exchange Service (DAAD))  
Region: East Africa  
Countries: Ethiopia

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○ Marked projects are scholarships and graduate programs

# Institute of Landscape and Plant Ecology (320)

## Dept. of Landscape Ecology and Vegetation Science (320a)

Contact: Prof. Dr. Frank Schurr, [frank.schurr@uni-hohenheim.de](mailto:frank.schurr@uni-hohenheim.de)

- **InterNiche: The importance of biotic interactions for demography, niches and geographical ranges of South African Proteaceae**

Duration: since 2021 (German Research Foundation (DFG))

Region: Southern Africa

Countries: South Africa

- **ProteaNet: Protea networks in time and space: resource-driven dynamics of interacting plant, pollinator and seed predator communities in South African Fynbos**

Duration: 02/2017 - 11/2020 (German Research Foundation (DFG))

Region: Southern Africa

Countries: South Africa

- **DynNiche: Demographic, functional and macroevolutionary determinants of range dynamics and large-scale ecological niches in South African Proteaceae**

Duration: 05/2012 - 12/2015 (German Research Foundation (DFG))

Region: Southern Africa

Countries: South Africa

- **ProteaBird: Spatial determinants of animal pollination and long-term plant fecundity in South African Fynbos: the Protea-bird system**

Duration: 02/2011 - 02/2015 (German Research Foundation (DFG))

Region: Southern Africa

Countries: South Africa

- **Biodiversity Monitoring Transect Analysis in Africa**

Duration: 01/2007 - 04/2010 (German Federal Ministry of Education and Research (BMBF))

Region: Southern Africa

Countries: South Africa





## Dept. of Plant Ecology (320b)

Contact: Jun.-Prof. Dr. Andreas Schweiger,  
[andreas.schweiger@uni-hohenheim.de](mailto:andreas.schweiger@uni-hohenheim.de)

Prof. Dr. Petra Högy, [petra.hoegy@uni-hohenheim.de](mailto:petra.hoegy@uni-hohenheim.de)

- **FuoRe: Future-oriented research pathways for food security in East Africa**

Duration: 01/2012 - 06/2012 (German Federal Ministry of Education and Research (BMBF)) Initiative „GlobE – Global Food Security“

Region: East Africa

Countries: Diverse East African Countries

- **Epidemiology and Social Determinants of Chronic Diseases Attributed Adult Mortality and its Effect on Maternal and Young Child Nutrition in Tigray, 2009-2015: Evidence from Kilite Awlaelo Health and Demographic Surveillance Site**

Duration: 2011 (German Academic Exchange Service (DAAD))

Region: East Africa

Countries: Ethiopia

- **Grain quality characteristics of Ethiopian barley genotypes as affected by climate change**

Bilaterales SDG-  
Graduiertenkolleg  
“Climate Change  
Effects on Food  
Security”

(CLIFOOD)

Duration: 07/2017 -  
12/2020 (German  
Academic Exchange  
Service (DAAD))

Region: East Africa

Countries: Ethiopia



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## **Institute of Crop Science (340)**

### **Dept. of Agronomy (340a)**

Contact: Prof. Dr. agr. Simone Graeff-Hönninger,  
[simone.graeff@uni-hohenheim.de](mailto:simone.graeff@uni-hohenheim.de)

- **Anbau und Qualität von Öllein in Äthiopien**

Duration: 2013 - 2014 (Catholic Academic Exchange Service)  
Region: East Africa  
Countries: Ethiopia

### **Dept. of Biostatistics (340c)**

Contact: Dr. Joseph O. Ogutu, [jogutu2007@gmail.com](mailto:jogutu2007@gmail.com)

- **Bestimmung der Ursachen und Prozesse des Rückgangs der Wildtierpopulation und der Artenvielfalt**

Duration: 2019 - 2022 (German Research Foundation (DFG))  
Region: East Africa  
Countries: Kenya

- **Linking biodiversity, ecosystem functions and services in the Great Serengeti-Mara Ecosystem GSME - divers of change, causalities and sustainable management strategies**

Duration: 2015 - 2019 (EU-Projekt AfricanBioServices)  
Region: East Africa  
Countries: Kenya and Tanzania

- **Modellierungen der Wirkungen von Klimawandel und Änderung der Landnutzung auf die Populationsdynamik von Weide- und Wildtieren**

Duration: 2014 - 2018 (German Research Foundation (DFG))  
Region: East Africa  
Countries: Kenya

### **Dept. of Plant Product Quality (340e)**

Contact: Prof. Dr. Christian Zörb, [christian.zoerb@uni-hohenheim.de](mailto:christian.zoerb@uni-hohenheim.de)

- ▪ **Phytochemical characterization, antioxidant properties and the mechanism of actions of extracts of three Nigerian grown medicinal plants used in the management of Type 2 diabetes**

Duration: 08/2019 - 01/2020 (Alexander von Humboldt Foundation)  
Region: West Africa  
Countries: Nigeria

## **Dept. of Crop Physiology of Specialty Crops (340f)**

Contact: Dr. Michael Hagemann, [michael.hagemann@uni-hohenheim.de](mailto:michael.hagemann@uni-hohenheim.de)

- **Mercury - AMF: Phytoremediation of Mercury-contaminated Mining Sites in Ghana and Burkina Faso Using Arbuscular Mycorrhizal Fungi**

Duration: 02/2019 - 01/2022 (Federal Ministry of Education and Research (BMBF))  
Region: West Africa  
Countries: Ghana, Burkina Faso

- **The role of home gardens in mitigating food insecurity and dietary quality: case of Mbororo community in the Northwest Region of Cameroon**

Duration: 2017 - 2020 ((German Academic Exchange Service (DAAD); Foundation Fiat Panis)  
Region: Central Africa  
Countries: Cameroon

- **Restoration of degraded mined sites for agricultural production in Ghana.**

Duration: 2015 - 2019 (German Academic Exchange Service (DAAD); Foundation Fiat Panis)  
Region: West Africa  
Countries: Ghana

- **Eco-physiological studies on False Horn plantain**

Duration: 2016 - 2019 (self-funded PhD-project)  
Region: West Africa  
Countries: Ghana

- **BiomassWeb: Verbesserung der Ernährungssicherheit in Afrika durch erhöhte Systemproduktivität von biomassebasierten Wertschöpfungsnetzen**

Duration: 07/2013 - 08/2018 (Federal Ministry of Education and Research (BMBF))- Initiative „GlobE – Global Food Security“  
Region: East and West Africa

Countries: Ghana, Nigeria, Ethiopia

- **Banana weevil borer (*Cosmopolites sordidus*): Plant defense responses and Control options**

Duration: 2013 - 2017 (German Academic Exchange Service (DAAD); Foundation Fiat Panis)

Region: East and West Africa

Countries: Ghana, Uganda

- **Innovative Propagation Techniques in Banana and Plantain**

Duration: 2013 - 2016 ((German Academic Exchange Service (DAAD); Foundation Fiat Panis)

Region: West Africa

Countries: Ghana

### **Dept. of Nutritional Crop Physiology (340h)**

Contact: Prof. Dr. Uwe Ludewig, [u.ludewig@uni-hohenheim.de](mailto:u.ludewig@uni-hohenheim.de)



- **Climate change, cattle herd vulnerability and food insecurity: Adaptation through livestock diversification in the Borana pastoral system of Ethiopia**

Duration: since 2015 (German Academic Exchange Service (DAAD); Foundation Fiat Panis)

Region: East Africa

Countries: Ethiopia

### **Dept. of Physiology of Yield Stability (340k)**

Contact: Jun.-Prof. Dr. Sandra M. Schmöckel, [sandra.schmoeckel@uni-hohenheim.de](mailto:sandra.schmoeckel@uni-hohenheim.de)

- **Quinoa as a climate-smart crop diversification option for higher income generation from marginal lands in the Mediterranean**

Duration: 06/2022 – 05/2025 (Partnership for Research and Innovation in the Mediterranean Area (PRIMA))

Region: North Africa

Countries: Algeria, Morocco, Tunisia

# **Institute of Plant Breeding, Seed Science and Population Genetics (350)**

## **Dept. of Plant Breeding (350a)**

Contact: Prof. Dr. Bettina I.G. Haussmann,  
[bettina.haussmann@uni-hohenheim.de](mailto:bettina.haussmann@uni-hohenheim.de)

- **Building a Community of Practice to foster agroecological transformation of sorghum and pearl millet based production systems in West Africa**

Duration: since 2011 (Collaborative Crop Research Program of the McKnight Foundation)

Region: West Africa

Countries: Niger, Burkina Faso, Mali

- **Single cross hybrid prediction using distinct mating designs for sorghum product development in sub-humid environments in East Africa**

Duration: 2020 - 2024 (KWS Saat SE & Co. KGaA)

Region: East Africa

Countries: Kenya

- **Sowing the seeds of success: new models for selection and large-scale dissemination of best-fit varieties by Zambian smallholder farmers**

Duration: 2021 - 2024 (KWS Saat SE & Co. KGaA)

Region: Southern Africa

Countries: Zambia

- **Strengthening cultivar diversity of barley and durum wheat to manage climate related risks and foster productivity in marginal areas of Ethiopia**

Duration: 2016 - 2019 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

Countries: Ethiopia

- **Bringing the benefits of heterosis to smallholder sorghum and pearl millet farmers in West Africa: Establishing a solid foundation for hybrid development**

Duration: 2014 - 2017 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: West Africa

Countries: Niger and Senegal

- **Easy molecular breeding tools for accelerating sorghum improvement in West Africa**

Duration: 2014 - 2016 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: West Africa

Countries: Mali and Nigeria

- **Tackling abiotic production constraints in pearl millet and sorghum-based agricultural systems of the West African Sahel**

Duration: 2010 - 2013 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: West Africa

Countries: Niger, Burkina Faso, Mali, Senegal

- **Genetic characterization and evaluation and nutritional traits of adapted pearl millet**

Duration: 2010 - 2011 (Global Crop Diversity Trust)

Region: East Africa

Countries: Sudan

- **Mobilizing regional diversity for creating new potential for pearl millet and sorghum farmers in West and Central Africa**

Duration: 2006 - 2010 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: West Africa

Countries: Nigeria, Niger, Burkina Faso, Mali, Senegal

- **Sustainable conservation and utilization of genetic resources of two underutilized crops – finger millet and foxtail millet – to enhance productivity; nutrition and income in Africa and Asia**

Duration: 2008 - 2010 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

Countries: Kenya, Tanzania, Uganda

## **Institute of Phytomedicine (360)**

### **Dept. of Phytopathology (360a)**

Contact: Prof. Dr. Ralf. T. Vögele, [ralf.voegele@uni-hohenheim.de](mailto:ralf.voegele@uni-hohenheim.de)

- **Spatial and temporal variability of root exudate effects on rhizosphere soil microbial community of Nigerian maize**

Duration: 06/2019 – 11/2019 (Alexander von Humboldt Foundation (AvH))

Region: West Africa

Countries: Nigeria

- **Molecular identification of Nigerian rice for mycotoxigenic fungi**

Duration: 06/2019 – 11/2019 (Alexander von Humboldt Foundation (AvH))

Region: West Africa

Countries: Nigeria

- **Biopesticides: botanicals and microorganisms for improving agriculture and human health (Book Project)**

Duration: 06/2019 – 11/2019 (Alexander von Humboldt Foundation (AvH))

Region: West Africa

Countries: Nigeria

### **Dept. of Entomology (360c)**

Contact: Prof. Dr. Claus Zebitz, [claus.zebitz@uni-hohenheim.de](mailto:claus.zebitz@uni-hohenheim.de)

- **Predicting climate change induced vulnerability of African agricultural systems to major insect pests through advanced insect phenology modeling, and decision aid development for adaptation planning**

Duration: 07/2010 - 06/2012 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

Countries: Kenya and Uganda

- **Revisiting sweet potato weevil sexual pheromone research**

**and development: Scale-up synthesis of improved chemistry, field evaluation and integration into rational mass trapping devices for field application**

Duration: 07/2010 - 06/2012 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

Countries: Uganda

- **Expanding the rational and biological control of invasive *Liriomyza* leafminer flies to major horticultural production systems of East Africa**

Duration: 04/2010 - 03/2014 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

Countries: Kenya

### **Dept. of Weed Science (360b)**

Contact: Prof. Dr. Roland Gerhards, [roland.gerhards@uni-hohenheim.de](mailto:roland.gerhards@uni-hohenheim.de)



- **Critical periods for weed control in maize**

Duration: 2010 - 2014 (German Corporation for International Collaboration (GIZ))

Region: West Africa

Countries: Benin

### **Institute of Agricultural Policy and Markets (420)**

#### **Dept. of Agricultural and Food Policy (420a)**

Contact: Prof. Dr. Christine Wieck, [christine.wieck@uni-hohenheim.de](mailto:christine.wieck@uni-hohenheim.de)

- **The impact of different poultry trade policies on chicken meat value chains in African countries: Insights from Ghana and Senegal**

Duration: 08/2020 - 07/2024

Region: West Africa

Countries: Ghana and Senegal

- **Fonds for Agricultural Policy and Innovation: Mapping agricultural trade within the ECOWAS Region: structure and flow of agricultural products, barriers to trade, financing gaps**



## and policy options

Duration: 12/2020 – 07/2021 (Federal Ministry for Economic Cooperation and Development (BMZ) and German Corporation for International Collaboration (GIZ))

Region: West Africa

- **The role of multi-actor partnerships for achieving a higher degree of sustainability in cross-border agri-food supply chains**

Duration: 08/2019 - 11/2020 (Federal Ministry for Economic Cooperation and Development (BMZ))

- **Task Force Rural Africa**

Duration: 05/2018 - 03/2019 (EU Commission)

Region: Africa



## **Institute of Social Sciences in Agriculture (430)**

### **Dept. of Communication and Advisory Services in Rural Areas (430a)**

Contact: Prof. Dr. Andrea Knierim, [andrea.knierim@uni-hohenheim.de](mailto:andrea.knierim@uni-hohenheim.de)

- **Seedball – SMIL: The seed ball technology - a transdisciplinary approach to its development and implementation into Sahelian pearl millet production systems**

Duration: 04/2019 - 09/2022 (United States Agency for International Development (USAID))

Region: West Africa

Countries: Niger

- **Improving dietary quality and livelihoods using farm and wild biodiversity through an integrated community-based approach in Kenya**

Duration: 01/2020 - 05/2022 (German Corporation for International Collaboration (GIZ))

Region: East Africa

Countries: Kenya and Uganda

- **SERVInnov: Strengthening innovation support services to enhance innovations for sustainable food production, ensuring well-being of rural populations and reducing environmental degradation and resource depletion**

Duration: 09/2018 - 09/2021 (LEAP-Agri Programme)

Region: Central and East Africa

Countries: Cameroon, Madagascar, Burkina Faso

## **Institute of Agricultural Engineering (440)**

### **Dept. of Fundamentals of Agricultural Engineering (440a)**

Contact: Prof. Dr. Stefan Böttinger, [info440a@uni-hohenheim.de](mailto:info440a@uni-hohenheim.de)

- ▪ **Analysing land use history in the Northern Rift Valley Lake Basins of Ethiopia (NRVLB), Ethiopia, to identify and assess local coping strategies to maintain food security under imminent climate change**

Duration: 2011 (German Academic Exchange Service (DAAD))  
Region: East Africa

## **Dept. of Agricultural Engineering in the Tropics and Subtropics (440e)**

Contact: Prof. Dr. Joachim Müller, [joachim.mueller@uni-hohenheim.de](mailto:joachim.mueller@uni-hohenheim.de)

- **I-WALAMAR: Sustainable technologies and services for water and land management in Morocco**

Duration: 07/2019 - 06/2022 (German Federal Ministry of Education and Research (BMBF))

Region: North Africa

Countries: Morocco

- **SMIL- Seedball: Enhancing the yield effect in pearl millet and sorghum and disseminating the technology in West Africa**

Duration: 10/2019 - 10/2021 (United States Agency for International Development (USAID) and Kansas State University)

Region: West Africa

Countries: Niger

- **Solar cooling solutions in the dairy value chain in Zambia**

Duration: 11/2019 - 03/2020 (German Corporation for International Collaboration (GIZ), Grüne Innovationszentren für die Agrar- und Ernährungswirtschaft)

Region: Southern Africa

Countries: Zambia

- **Solare Milchkühlung**

Duration: 10/2018 - 12/2019 (German Corporation for International Collaboration (GIZ))

Region: East and West Africa

Countries: Kenya and Mali

- **Improvement strategies of avocado oil extraction with regard to process efficiency and product quality**

Duration: 03/2019 - 09/2019 (Fairoils SPRL)

Region: East Africa

Countries: Kenya

- **Making value chains work for food and nutrition security of vulnerable populations in East Africa**

Duration: 03/2016 - 02/2019 (Federal Ministry for Economic Cooperation and Development (BMZ) and German Corporation for International Collaboration (GIZ))

Region: East Africa

Countries: Uganda and Kenya

- **Promotion of solar refrigeration for agricultural value-chains**

Duration: 2018 - 2019 (German Corporation for International Collaboration (GIZ))

Region: East Africa, Asia

Countries: Ethiopia

- **Strengthening post-harvest processes in Africa using improved solar drying**

Duration: 10/2017 - 03/2018 (German Corporation for International Collaboration (GIZ))

Region: East and West Africa

Countries: Ghana, Kenya, Burkina Faso

- **Supporting dairy value chains and smallholder agricultural mechanization in Ghana, Kenya, Tunisia and Zambia: Program of Accompanying Research for Agricultural Innovation (PARI)**

Duration: 01/2015 - 02/2018 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: North and East Africa

Countries: Tunisia and Kenya

- **Leistungsoptimierung einer Solarpresse für die produktive Extraktion von Sesamöl in Burkina Faso**

Duration: 12/2016 - 01/2018 (German Corporation for International Collaboration (GIZ))

Region: West Africa

Countries: Burkina Faso

- **Piloting business models for solar milk cooling in Kenya**

Duration: 2017 - 2018 (German Corporation for International Collaboration (GIZ))

Region: East Africa

- **Field testing of an innovative solar powered milk cooling solution for the higher efficiency of the dairy subsector in Tunisia**

Duration: 2015 - 2017 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: North Africa  
Countries: Tunisia

- **Performance optimization of a solar press for the productive extraction of sesame oil in Burkina Faso**

Duration: 2017 (German Corporation for International Collaboration (GIZ))  
Region: West Africa  
Countries: Burkina Faso

- **Biomass Web: Improving food security in Africa through increased system productivity of biomass-based value webs**

Duration: 07/2013 - 07/2016 (German Federal Ministry of Education and Research (BMBF)) Initiative „GlobE – Global Food Security“  
Region: Africa

- **Trans-SEC - Innovating pro-poor Strategies to safeguard Food Security using Technology and Knowledge Transfer**

Duration: 05/2013 - 04/2016 (German Federal Ministry of Education and Research (BMBF))  
Region: East Africa  
Countries: Tanzania

- **Integrierter Entkapselungs-, Entschälungs-, und Entölungsprozess von *Jatropha curcas* zur effizienten Produktion von hochwertigem Designer-Proteinfutter und Pflanzenöl**

Duration: 03/2012 - 04/2014 (German Federal Ministry of Education and Research (BMBF))  
Region: East Africa  
Countries: Madagascar

- **Precision Phenotyping for Improving Drought Stress Tolerant Maize in Southern Asia and Eastern Africa**

Duration: 2009 - 2012 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East Africa, Asia

- **Optimierung von Schälung und Pressung von *Jatropha curcas* L. für die direkte Nutzung in Pflanzenölkochern**

Duration: 06/2007 - 06/2010 (German Federal Ministry of Education and Research (BMBF))

Region: East Africa

Countries: Madagascar

○ ▪ **Bilateral SDG Graduate School “Climate Change Effects on Food Security” (CLIFOOD)**

Duration: 2001 - 2025 (German Academic Exchange Service (DAAD), Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

Countries: Ethiopia

○ ▪ **Assessment of mycotoxins contamination and the causing factors along the Maize value chain in the production regions of Rwanda**

Duration: 2018 - 2019 (Foundation Fiat Panis)

Region: East Africa

Countries: Rwanda

○ ▪ **Valorisation of coffee processing waste to improve livelihood of small-scale farmers in Ethiopia**

Duration: 2017 - 2018 (German Academic Exchange Service (DAAD))

Region: East Africa

○ ▪ **Evaluation and optimization of enzymatic cassava roots peeling**

Duration: 10/2015 - 10/2017 (Foundation Fiat Panis)

Region: Africa

○ ▪ **Weiterentwicklung des Multi-Fuel Injera Mitads zur Anpassung an unterschiedliche Kocher**

Duration: 2011 - 2013 (Foundation Fiat Panis)

Region: East Africa

Countries: Ethiopia

○ ▪ **Prediction of soil properties for agricultural and environmental applications from infrared and X-ray soil spectral properties**

Duration: 2013 - ? (German Academic Exchange Service (DAAD); Foundation Fiat Panis)

Region: East Africa

Countries: Kenya

## **Dept. of Conversion Technologies of Biobased Resources (440f)**

Contact: Prof. Dr. Andrea Kruse, [andrea.kruse@uni-hohenheim.de](mailto:andrea.kruse@uni-hohenheim.de)

- **Medwaste: Mediterrane landwirtschaftliche Abfälle, umweltbewusste und nachhaltige Quellen für innovative Technologien im Bereich der erneuerbaren Technologien**

Duration: 06/2017 - 05/2020 (German Aerospace Center (DLR))

Region: North Africa

Countries: Morocco and Tunisia

- ▪ **Development of Carbon Materials for Microbial Fuel Cells**

Duration: 11/2018 - 10/2021 (German Academic Exchange Service (DAAD))

Region: West Africa

Countries: Nigeria

- ▪ **Simulations and Techno-Economic Assessment for Thermochemical Conversions of Some Tropical Lignocellulosic Biomass**

Duration: 11/2018 - 10/2021 (German Academic Exchange Service (DAAD))

Region: West Africa

Countries: Nigeria



## **Institute of Animal Science (460)**

### **Dept. of Animal Nutrition (460a)**

Contact: Prof. Dr. Markus Rodehutschord,  
[markus.rodehutschord@uni-hohenheim.de](mailto:markus.rodehutschord@uni-hohenheim.de)



- **Methane gas emissions from tropical ruminant animals**

Duration: 06/2013 - 11/2014 (Alexander von Humboldt Foundation)  
Region: East Africa  
Countries: Ethiopia

### **Dept. of Livestock Infectiology and Environmental Hygiene (460e)**

Contact: PD Dr. Wolfgang Beyer, [wolfgang.beyer@uni-hohenheim.de](mailto:wolfgang.beyer@uni-hohenheim.de)

- **MUSBCEA: Multisektorale Strategie zur Bekämpfung der Brucellose in Ostafrika**

Duration: 2018 - 2021 (LEAP-Agri Program through European Union – African Union Partnership on Science, Technologies and Innovations (STI))  
Region: North and East Africa

- **Immunoprophylaxis and molecular epidemiology of anthrax and the fate of *Bacillus anthracis* in living vectors and the environment of Namibia and South Africa**

Duration: 2009 - 2014 (German Research Foundation (DFG))  
Region: Southern Africa  
Countries: Namibia and South Africa

### **Dept. of Livestock Population Genomics (460h)**

Contact: Prof. Dr. Martin Hasselmann,  
[martin.hasselmann@uni-hohenheim.de](mailto:martin.hasselmann@uni-hohenheim.de)

- **The molecular mechanisms underlying local adaptation to high elevation habitats in the honey bee *Apis mellifera***

Duration: 11/2020 - 10/2023 (German Research Foundation (DFG))  
Region: East Africa  
Countries: Kenya, Uganda, Tanzania





▪ **Characterization of diversity in Ethiopian honey bees**

Duration: 10/2017 - 09/2021 (German Academic Exchange Service (DAAD))

Region: East Africa

Countries: Ethiopia



# **Institute of Agricultural Sciences in the Tropics (Hans-Ruthenberg-Institute) (490)**

## **Dept. of Rural Development Theory and Policy (490a)**

Contact: Prof. Dr. Manfred Zeller, [manfred.zeller@uni-hohenheim.de](mailto:manfred.zeller@uni-hohenheim.de)

- **Kleinbäuerliche Risikomanagement- und Innovationsstrategien und ihre Auswirkungen auf Armut und Resilienz**  
Duration: 2013 - 2020 (German Research Foundation (DFG))  
Region: East Africa  
Countries: Ethiopia
- **Sozio-ökonomische Auswirkungen einer Jatropha-Plantage auf ländliche Haushalte und deren Gemeinden in Madagaskar**  
Duration: 2012 - 2019 (Baden-Württemberg Energy Research Foundation)  
Region: Southern Africa  
Countries: Madagascar
- **BiomassWeb: Improving food security in Africa through increased system productivity of biomass-based value webs - WP 6.3 Global Utilization of Biomass, Locally adapted solutions**  
Duration: 2013 - 2018 (German Federal Ministry of Education and Research (BMBF))  
Region: West and East Africa  
Countries: Ghana, Ethiopia, Nigeria
- **Policies and institutions for achieving the virtuous food-energy-water nexus in Sub-Saharan Africa**  
Duration: 2013 - 2016 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East Africa  
Countries: Malawi, Mozambique
- **Impact of fertilizer subsidy program on farm level productivity and food security: A case study of rice producers in northern Ghana**  
Duration: 2012 - 2015 (GRiSP (Global Rice Science Partnership; led by IRRI))

Region: West Africa  
Countries: Ghana

- **Assessing the impact of improved rice-based technology adoption on household food security in The Gambia**

Duration: 2012 - 2015 (GRiSP (Global Rice Science Partnership; led by IRRI))  
Region: West Africa  
Countries: The Gambia

- ▪ **Integrated Soil Fertility Management, Farm Performance and Household Welfare: Evidence from Smallholder Farmers in Mozambique**

Duration: 2021 - 2024 (ATSAP Academy)  
Region: East Africa  
Countries: Mozambique

- ▪ **Evaluation of market trends and scaling options for biofortification**

Duration: 2018 - 2021 (German Academic Exchange Service (DAAD))  
Region: East Africa  
Countries: Uganda

- ▪ **Welfare impact of complimentary technology adoption: Measurement and evidence**

Duration: 03/2021 - 11/2021 (Standing Panel on Impact Assessment (SPIA))  
Region: East Africa  
Countries: Ethiopia

- ▪ **An analysis of adoption of crossbred poultry and its impact on well-being among rural poultry-keeping households in Ethiopia.**

Duration: 03/2021 - 11/2021 (Standing Panel on Impact Assessment (SPIA))  
Region: East Africa  
Countries: Ethiopia

- ▪ **The Impact of Agricultural Innovations on Poverty, Vulnerability and Resilience to Food Insecurity of Smallholders in Ethiopia.**

Duration: 2016 - 2020 (German Academic Exchange Service (DAAD))  
Region: East Africa  
Country: Ethiopia

○ ▪ **Scoping Study „Digitales Monitoring für die Prävention zoonotischer Krankheiten in der Nutztierhaltung“**

Duration: 11/2021 – 04/2022 (Ministry for Science, Research and Art of Baden-Wuerttemberg)  
Region: South and East Africa  
Countries: Malawi and neighboring countries

**Dept. of Social and Institutional Change in Agricultural Development (490c)**

Contact: Prof. Dr. Regina Birner, [regina.birner@uni-hohenheim.de](mailto:regina.birner@uni-hohenheim.de)

▪ **PARI: Program of accompanying research for agricultural Innovation**

Duration: 2014 - 2022 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East and West, South-Africa, Asia  
Countries: Benin, Kenya, Mali, Nigeria, Uganda, Zambia, and India

▪ **Mycorrhizal Fungi (Burkina Faso and Ghana)**

Duration: 2019 - 2022 (German Federal Ministry of Education and Research (BMBF))  
Region: West Africa, Asia  
Countries: Ghana and Burkina Faso

▪ **AMF-Mercury: Phytoremediation of Mercury-contaminated Mining Sites in Ghana and Burkina Faso Using Arbuscular**

Duration: 2019 - 2022 (German Federal Ministry of Education and Research (BMBF))  
Region: West Africa, Asia  
Countries: Ghana and Burkina Faso

▪ **Reaching smallholder women with information services and resilience strategies to respond to climate change**

Duration: 2019 - 2021 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East Africa, Asia  
Countries: Kenya, Uganda and India

- **Governance and institutional challenges of an emerging agro-biomass sector in Ghana**

Duration: 2015 - 2018 (German Federal Ministry of Education and Research (BMBF))  
 Region: West Africa  
 Countries: Ghana
- **Underutilized or unprotected? New methods for analyzing diverging perspectives on the large-scale conversion of tropical grassland eco-systems**

Duration: 2016 - 2018 (Ellrichshausen Foundation)  
 Region: East Africa  
 Countries: Ethiopia, Kenya
- **Governance of emerging biomass-based value webs in Africa: Case Studies from Ghana**

Duration: 2014 - 2017 (German Federal Ministry of Education and Research (BMBF))  
 Region: West Africa  
 Countries: Ghana
- **PEBAP: Promoting participatory and evidence-based agricultural policy processes in Africa**

Duration: 2012 - 2015 (International Food Policy Research Institute (IFPRI))  
 Region: East and West Africa  
 Countries: Ghana, Senegal, Uganda
- **Analysis of institutional arrangements for providing animal health services: An application of transaction costs theory of economic organization**

Duration: 2011 - 2014  
 Region: East Africa  
 Countries: Uganda and Kenya
- **Gender, assets dynamics and cognitive processes in enhancing adaptive behavior in climate risk management in Kenya**

Duration: 2011 - 2014 (Federal Ministry for Economic Cooperation and Development (BMZ))  
 Region: East Africa  
 Countries: Kenya

- **Options for mechanizing smallholder production systems in Ghana**

Duration: 2014 (John Deere Company)

Region: West Africa

Countries: Ghana

- ▪ **ICT applications in livestock production**

Duration: 2020 - 2023 (German Academic Exchange Service (DAAD))

Region: East and West Africa

Countries: Kenya and Nigeria

- ▪ **Impact of digitalization on youth and women in agri-business**

Duration: 2020 - 2023 (German Academic Exchange Service (DAAD))

Region: East Africa

Countries: Kenya

- ▪ **Agricultural policy processes: A case study of the Alliance for a Green Revolution in Africa**

Duration: 2020 - 2023 (German Academic Exchange Service (DAAD))

Region: East Africa

Countries: Kenya

- ▪ **Investigating the institutional environment that influences the linkages between cocoa farming and artisanal small-scale mining in Ghana**

Duration: 2020 - 2023 (German Academic Exchange Service (DAAD) and German Institute for Global and Area Studies (GIGA - Research Network on Sustainable Global Supply Chains))

Region: West Africa

Countries: Ghana

- ▪ **Video-based messages in agricultural extension**

Duration: 2019 - 2022 (German Academic Exchange Service (DAAD))

Region: East Africa, Asia

Countries: Kenya, Uganda and India

- ▪ **Intra-household resource allocation and cooperation**

Duration: 2017 - 2021 (German Academic Exchange Service (DAAD))

Region: West Africa  
Countries: Burkina Faso

- ▪ **Mechanized Conservation Agriculture**  
Duration: 2018 - 2021 (German Academic Exchange Service (DAAD))  
Region: East Africa  
Countries: Zambia
- ▪ **Deforestation, cocoa production and food security in Ghana**  
Duration: 2018 - 2021 (German Academic Exchange Service (DAAD))  
Region: West Africa  
Countries: Ghana
- ▪ **Detecting and analyzing micronutrient gaps in dietary patterns in Western Uganda**  
Duration: 2019 - 2021 (German Academic Exchange Service (DAAD))  
Region: East Africa  
Countries: Uganda
- ▪ **Development potential of smallholder livestock production systems in Zambia**  
Duration: 2015 - 2018 (German Academic Exchange Service (DAAD))  
Region: East Africa  
Countries: Zambia
- ▪ **Understanding the governance and institutional challenges in the maize sector in Ethiopia**  
Duration: 2014 - 2017 (German Academic Exchange Service (DAAD))  
Region: East Africa  
Countries: Ethiopia
- ▪ **Impacts of extension, local institutions, and networks on natural resource management practices, climate change adaptation and food security in Ethiopia: the case of Amhara region.**  
Duration: 2012 - 2015 (German Academic Exchange Service (DAAD))  
Region: East Africa

Countries: Ethiopia

○ **Payments for ecosystem services, gender and governance**

Duration: 2012 - 2015 (German Academic Exchange Service (DAAD))

Region: East Africa

Countries: Kenya

○ **Uncovering governance challenges in the implementation of post-conflict agricultural recovery programs: A case of NUSAF and NAADS in Northern Uganda**

Duration: 2011 - 2014 (German Academic Exchange Service (DAAD))

Region: East Africa

Countries: Uganda

○ **Activating institutional innovations for hunger and poverty reduction: Potential of applied international agricultural research**

Duration: 2011 - 2013 (German Academic Exchange Service (DAAD) and International Crop Research Institute for the Semi-Arid Tropics (ICRISAT))

Region: Africa





## **Dept. of Land Use Economics in the Tropics and Subtropics (490d)**

Contact: Prof. Dr. Thomas Berger; [thomas.berger@uni-hohenheim.de](mailto:thomas.berger@uni-hohenheim.de)

- **Entwicklung nachhaltiger Wasser- und Energielösungen für Farmen in Südafrika, Teilprojekt 2: Agrarökonomische Bewertung**

Duration: 01/2019 - 12/2021 (Federal Ministry of Education and Research (BMBF) Client II)

Region: Southern Africa

Countries: South Africa

- **Underutilized or unprotected? New methods for analyzing diverging perspectives on the large-scale conversion of tropical grassland eco-systems**

Duration: 2016 - 2018 (Ellrichshausen-Foundation)

Region: East Africa

Countries: Ethiopia

- **Farmer adaptation to climate variability in Sub-Saharan Africa**

Duration: 2012 - 2017 (International Maize and Wheat Improvement Center (CIMMYT))

Region: East Africa

Countries: Ethiopia

- **Working together for market access: Strengthening rural producer organizations in Sub-Saharan Africa**

Duration: 2009 - 2012 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

Countries: Uganda

- ▪ **Climate change and intergenerational persistence of poverty and malnutrition**

CLIFOOD Phase 2: German-Ethiopian SDG Graduate School "Climate Change Effects on Food Security (CLIFOOD)"

Duration: 01/2021 - 12/2025 (German Academic Exchange Service (DAAD) and Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

Countries: Ethiopia

○ ▪ **Robust adaptation strategies to climate change for Ethiopian agriculture – heterogeneity of farming households and the role of social networks**

CLIFOOD Phase 1: German-Ethiopian SDG Graduate School  
“Climate Change Effects on Food Security (CLIFOOD)”

Duration: 2016 - 2020 (German Academic Exchange Service (DAAD), and Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

Countries: Ethiopia

○ ▪ **Food and Nutrition Security in Climate Sensitive Agriculture – Choice of Risk Management and Coping Strategies in Different Resource Settings Among Rural Farm Households in Ethiopian Highlands**

Duration: 2017 - 2020 (German Academic Exchange Service (DAAD) and Foundation Fiat Panis)

Region: East Africa

Countries: Ethiopia

○ ▪ **Adaption to climate change: Land management strategies for improving food security**

Duration: 2011 - 2014 (German Academic Exchange Service (DAAD) and Foundation Fiat Panis)

Region: East Africa

Countries: Ethiopia



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## **Dept. of Plant Production in the Tropics and Subtropics (490e)**

Contact: Prof. Dr. Georg Cadisch, [georg.cadisch@uni-hohenheim.de](mailto:georg.cadisch@uni-hohenheim.de)

- **SustainSAHEL: Synergetic use and protection of natural resources for rural livelihoods through systematic integration of crops, shrubs and livestock in the Sahel. WP7 Scenario modelling of CSL systems**

Duration: 2020 - 2025 (European Union Horizon 2020)

Region: West Africa

Countries: Burkina Faso, Mali, Senegal

- **Mercury-AMF: Phytoremediation of mercury contaminated mining sites in Ghana and Burkina Faso with arbuscular mycorrhizal fungi. Subproject 1: Genetic characterization of potential AMF candidates in Ghana and Burkina Faso; Subproject 3: Evaluation of AMF plant systems in Burkina Faso**

Duration: 2019 - 2022 (German Federal Ministry of Education and Research (BMBF))

Region: West Africa

Countries: Ghana and Burkina Faso

- **EatSANE: Education and Training for Sustainable Agriculture and Nutrition in East Africa**

Duration: 2018 - 2021 (Federal Ministry of Food and Agriculture (BMEL))

Region: East Africa

Countries: Uganda and Kenya

- **HypoWave: household wastewater reuse for resource-efficient hydroponic crop production**

Duration: 2016 - 2019 (German Federal Ministry of Education and Research (BMBF))

Region: East Africa, Asia, Europe

Countries: Kenya, China, Italy, Portugal, Thailand

- **HealthyLand: Crops for Healthy Diets: Linking Agriculture and Nutrition**

Duration: 2015 - 2018 (Federal Ministry of Food and Agriculture (BMEL))

Region: East Africa

Countries: Kenya, Uganda and Malawi

- **Underutilized or unprotected? New methods for analyzing diverging perspectives on the large-scale conversion of tropical grassland eco-systems**

Duration: 2016 - 2018 (Ellrichshausen-Foundation)

Region: East Africa

Countries: Kenya and Ethiopia

- **LegumeCHOICE: Realizing the underexploited potential of multi-purpose legumes towards improved livelihoods and a better environment in crop-livestock systems in East & Central Africa**

Duration: 2014 - 2017 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East and Central Africa

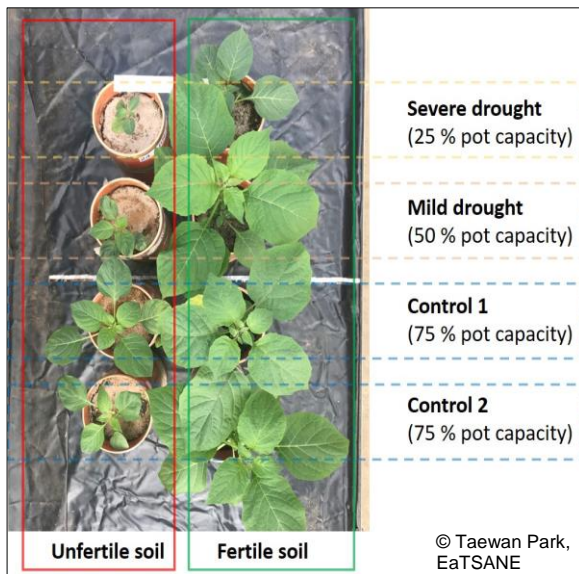
Countries: Kenya, Ethiopia, Democratic Republic of Congo

- **CONNECTing knowledge, scales and actors; An integrated framework for adaptive organic resource management, targeting soil aggradation and agroeco-systems' resilience in Sub Saharan Africa". 2014-2017**

Duration: 2014 - 2017 (Federal Ministry of Education and Research (BMBF)) / German Aerospace Center (DLR)) Conessa EU-ERAfrica

Region: East and West Africa

Countries: Kenya, Burkina Faso, Cote d'Ivoire



- **Achieving sustainable Striga control for poor farmers in Africa. Biocontrol using *Fusarium oxysporum* sp *strigaea*.**

Duration: 2011 - 2014 (Bill and Melinda Gates Foundation)  
Region: East and West Africa  
Countries: Nigeria and Kenya

- ▪ **Organic resource and mineral nitrogen driven microbial community dynamics in terrestrial ecosystems with focus on microbially regulated soil nitrogen cycling**

Duration: 2011 - 2020 (German Academic Exchange Service (DAAD))  
Region: East Africa, Asia, Europe  
Countries: Kenya, China, Italy, Portugal, Thailand

- ▪ **Assessing potential benefits and trade-offs of legume-led crop rotations on food security and natural resources at the plot and landscape using an integrated modeling approach**

Duration: 2017 - ? (German Academic Exchange Service (DAAD); Foundation Fiat Panis)  
Region: East Africa  
Countries: Kenya and Ethiopia

- ▪ **Restoration of degraded mined sites for agricultural production in Ghana**

Duration: 2015 - ? (German Academic Exchange Service (DAAD); Foundation Fiat Panis)  
Region: West Africa  
Countries: Ghana

- ▪ **Food security challenges and micronutrient deficiency of minority Mbororo women in Cameroon**

Duration: 2012 - ? (German Academic Exchange Service (DAAD); Foundation Fiat Panis)  
Region: Central Africa  
Countries: Cameroon

- ▪ **Innovative propagation technologies: Production of high quality banana planting material for multi-purpose crop cultivation in Sub-Sahara Africa**

Duration: 2011 -? (German Academic Exchange Service (DAAD); Foundation Fiat Panis)  
Region: East Africa

Countries: Uganda

- ▪ **Impacts of the fungal bio-control agent *Fusarium oxysporum f.sp. strigae* on plant beneficial microbial communities in the maize rhizosphere**

Duration: 2011 - ? (German Academic Exchange Service (DAAD);  
Foundation Fiat Panis)

Region: East Africa

Countries: Kenya

- ▪ **Abundance and diversity of total and nitrifying prokaryotes as influenced by biochemical quality of organic inputs, mineral nitrogen fertilizer and soil texture in tropical agro-ecosystems**

Duration: 2010 - ? (German Academic Exchange Service (DAAD);  
Foundation Fiat Panis)

Region: East Africa

Countries: Kenya

- ▪ **Improving the micronutrient status of children 12 to 24 months of age**

Duration: 2010 -? (German Academic Exchange Service (DAAD))

Region: West Africa

Countries: Sierra Leone

Contact: PD Dr. Frank Rasche, [frank.rasche@uni-hohenheim.de](mailto:frank.rasche@uni-hohenheim.de)

- ▪ **Ecological interactions of cereals with root-associated microorganisms with crop health promoting features**

Bilateral SDG-Graduate school "Climate Change Effects on Food Security (CLIFOOD)"

Duration: 08/2021 – 07/2025 (German Academic Exchange Service (DAAD))

Region: East Africa

Countries: Ethiopia

## **Dept. of Ecology of Tropical Agricultural Systems (490f)**

Contact: Prof. Dr. Ingo Grass; [ingo.grass@uni-hohenheim.de](mailto:ingo.grass@uni-hohenheim.de)

- **CREATES: Centre for research, agricultural advancement, teaching excellence and sustainability in food and nutrition security**

Duration: 2017 - 2023 (World Bank)

Region: East Africa

Countries: Tanzania

- **ESIDA: Epidemiological surveillance for infectious diseases in Sub-Sahara Africa**

Duration: 2020 - 2023 (Federal Ministry of Education and Research (BMBF))

Region: East Africa

Countries: Tanzania

- **WildNET**

Duration: 2020 - 2021 (National Geographic)

Region: East Africa

Countries: Tanzania

- **Diversity turn in land-use science: The importance of social diversity for sustainable land use innovations using the example of vanilla farming in Madagascar, Subproject "Biodiversity and ecosystem services of agro-ecologically optimized land use"**

Duration: 2016 - 2021 (Volkswagen Foundation and Lower Saxonian Ministry for Science and Culture)

Region: Southern Africa

Countries: Madagascar

- **SALLNet: South African Limpopo Landscapes Network, Subproject "Orchards, biodiversity and ecosystem services"**

Duration: 2018 - 2021 (German Federal Ministry of Education and Research (BMBF))

Region: Southern Africa

Countries: South Africa

- **Impact of gender inequality on climate change adaptation and livelihoods of marginalized communities around wildlife protected areas in Southern Tanzania**

Duration: 2019 - 2020 (African Academy of Science) call for CR4D  
Region: East Africa  
Countries: Tanzania

- **Achieving sustainable Striga control for poor farmers in Africa. Biocontrol using *Fusarium oxysporum* sp *strigae*.**

Duration: 2011 - 2014 (Bill and Melinda Gates Foundation)  
Region: East and West Africa  
Countries: Nigeria and Kenya

- **Research study on natural resource management, ecosystems and biodiversity in Afar, Ethiopia**

Duration: 2013 - 2014 (German Corporation for International Collaboration (GIZ))  
Region: East Africa  
Countries: Ethiopia

- **Understanding the present distribution of parasitic weeds of the genus *Striga* and predicting its potential future geographic distribution in the light of climate and land use change**

Duration: 2010 - 2012 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: West Africa  
Countries: Mali and Niger

- **Managing dry woodlands facing climate change in East Africa**

Duration: ?  
Region: East-Africa

- ▪ **Field evaluation of high- and low-tech tissue culture media derived plantain seedlings (*Musa AAB*) in grower's community**

Duration: 2012 -? (German Academic Exchange Service (DAAD); Foundation Fiat Panis)  
Region: West Africa  
Countries: Ghana

- ▪ **Physiological mechanism contribute to efficient use of water in field tomato under partial root-zone drying irrigation and potassium fertilizer**

Duration: 2015 -?(German Academic Exchange Service (DAAD); Foundation Fiat Panis)



Region: Central Africa  
Countries: Ethiopia

○ ▪ **Environmentally friendly conversion methods for by-products from primary coffee processing**

Duration: 2017 (German Academic Exchange Service (DAAD);  
Foundation Fiat Panis)  
Region: South Africa  
Countries: Ethiopia

○ ▪ **Control of the weed *Striga hermonthica* by the fungal biocontrol agent *Fusarium oxysporum* f.sp. *Strigae*.**

German-Ethiopian SDG Graduate School CLIFOOD  
Duration: 2016 - 2020 (German Academic Exchange Service (DAAD), Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East Africa  
Countries: Ethiopia

○ ▪ **Feodor-Lynen stipend: The interplay of large grazing ungulates, woody, and grassy vegetation in a South African savanna**

Duration: 2011 - 2013 (Feodor-Lynen Foundation)  
Region: Southern Africa  
Countries: South Africa



## **Dept. of Management of Crop Water Stress in the Tropics and Subtropics (490g)**

Contact: Prof. Dr. Folkard Asch, [fa@uni-hohenheim.de](mailto:fa@uni-hohenheim.de)

- **Sustainable production of biomass for industrial purposes in Africa**  
Duration: since 2020 (Heidelberg Cement)  
Region: Central Africa  
Countries: Democratic Republic of Congo
- **Entwicklung von Methoden zur Bewertung der Auswirkungen des Klima- und Landnutzungswandels auf ökosystemare Dienstleistungen entlang rural-urbaner Gradienten in Afrika“**  
Duration: 2021 (Themenkomplex Afrika der Universitäten Hohenheim und Tübingen)  
Region: Africa
- **Underutilized or unprotected? New methods for analyzing diverging perspectives on the large-scale conversion of tropical grassland eco-systems**  
Duration: 2016 - 2019 (Ellrichshausen Foundation)  
Region: East Africa  
Countries: Kenya and Ethiopia
- **Hynovation: Hydroponie als innovativer Ansatz für nachhaltiges Land - und Ressourcenmanagement in der urbanen Nahrungsmittelproduktion**  
Duration: 2018 - 2019 (Federal Ministry of Education and Research (BMBF))  
Region: West Africa, Asia  
Countries: Ghana and Jordan
- **Trans-SEC: Innovating pro-poor Strategies to safeguard Food Security using Technology and Knowledge Transfer**  
Duration: 2013 - 2018 (Federal Ministry of Food and Agriculture (BMEL) / Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East Africa  
Countries: Tanzania and Kenya
- **Improving rice farmers' decision making in lowland rice-based systems in East Africa (East African 'RiceAdvice')**

Duration: 2015 - 2018 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East and South Africa  
Countries: Ethiopia, Uganda and Madagascar

▪ **SMACC: Smallholder Adaptation to Climate Change**

Duration: 2014 - 2017 (Federal Ministry of Food and Agriculture (BMEL))  
Region: East Africa  
Countries: Ethiopia

▪ **LiveCarbon: Livelihood diversifying potential of livestock based carbon sequestration options in pastoral and agro pastoral systems in Africa**

Duration: 2011 - 2014 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East Africa  
Countries: Ethiopia

▪ **WUJIM: Wassernutzung von Jatropha in Madagaskar**

Duration: 2008 - 2011 (Rainforest Foundation)  
Region: South Africa  
Countries: Madagascar

▪ **RISOCAS: Developing rice and sorghum crop adaptation strategies for climate change in vulnerable environments in Africa**

Duration: 2009 - 2011 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: West and South Africa  
Countries: Senegal, Mali, Madagascar

▪ **Fe-Tox-WARDA: Screening of lowland rice varieties for iron toxicity responses**

Duration: 2009 - 2010 (The Africa Rice Center)  
Region: Africa  
Countries: Ghana

○ ▪ **Anton & Petra Ehrmann-Stiftung Graduierten Kolleg "Wasser - Menschen - Landwirtschaft"**

Duration: 2013 - 2025 (Anton & Petra Ehrmann-Foundation)  
Region: Europe, Africa, South America, Asia

- **Cultural food taboos, dietary pattern, consumption of non-food items and the potential of underutilized vegetables in reducing micronutrient malnutrition in pregnant women in Kenya**  
 Duration: 2011 -? (German Academic Exchange Service (DAAD); Foundation Fiat Panis)  
 Region: Southern Africa  
 Countries: Kenya
  
- **GrassNet: Cross-continental network for sustainable adaptation of grassland systems vulnerable to climate change**  
 Duration: 2009 - 2013 (German Academic Exchange Service (DAAD))  
 Region: East Africa  
 Countries: Kenya

**Dept. of Animal Breeding and Husbandry in the Tropics and Subtropics (490h)**

Contact: Prof. Dr. Mizeck Chagunda, [mizeck.chagunda@uni-hohenheim.de](mailto:mizeck.chagunda@uni-hohenheim.de)

- **Innov8Health**  
 Duration: 2021 - 2024 (Baden-Württemberg-Foundation)  
 Region: East and Southern Africa  
 Country: Malawi, Kenya, Namibia
  
- **Program for enhancing the health and productivity of livestock**  
 Duration: 2015 - 2019 (The Bill and Melinda Gates Foundation)  
 Region: East Africa  
 Countries: Tanzania and Kenya
  
- **Platform for African Dairy Genetic Gains**  
 Duration: 2015 - 2018 (The Bill and Melinda Gates Foundation)  
 Region: East Africa  
 Countries: Ethiopia, Tanzania, Kenya
  
- **Greenhouse gas mitigation strategies in smallholder dairy systems**  
 Duration: 2015 - 2018 (Capacity Building for Managing Climate Change (CABMACC))  
 Region: East Africa

Countries: Malawi

- **Girinka programme as a livestock germplasm source**

Duration: 2016 - 2018 (The Bill and Melinda Gates Foundation)

Region: East Africa

Countries: Rwanda

- **Safe food, fair food: Building capacity to improve the safety of animal source foods and ensure continued market access for poor farmers in Sub-Saharan Africa**

Duration: 01/2008 – 12/2011 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: Eastern and Southern Africa, West Africa

Countries: Côte d'Ivoire, Ethiopia, Ghana, Kenya, Mali, Mozambique, South Africa, Tanzania

- ▪ **Effects of improving the quality of food staples with vitamins A and D, and zinc on treatment outcomes in patients with pulmonary tuberculosis**

Duration: 2010 (German Academic Exchange Service (DAAD); Foundation Fiat Panis)

Region: East Africa

Countries: Ethiopia

- ▪ **Adaption to climate change: Land management strategies for improving food security**

Duration: 2010 (German Academic Exchange Service (DAAD); Foundation Fiat Panis)

Region: East Africa

Countries: Ethiopia

- ▪ **Contribution of local cattle breeds to household income and food security in southern Mali**

Duration: ? (German Academic Exchange Service (DAAD))

Region: West Africa

Countries: Mali

- ▪ **Optimizing community-based breeding of goats in Ethiopia**

Duration: ? (German Academic Exchange Service (DAAD))

Region: East Africa

Countries: Ethiopia

## **Dept. of Animal Nutrition and Rangeland Management in the Tropics and Subtropics (490i)**

Contact: Prof. Dr. Uta Dickhöfer, [uta.dickhoefer@uni-hohenheim.de](mailto:uta.dickhoefer@uni-hohenheim.de)

- **Adaption of selected biophysical models to predict resources use efficiency of ruminant production in tropical grasslands**

Duration: 2016 - 2019 (Ellrichshausen Foundation)

Region: East Africa

Countries: Ethiopia

- **In situ assessment of GHG emissions from two livestock systems in East Africa – determining current status and quantifying mitigation options**

Duration: 2015 - 2018 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

- **Countries: Kenya Underutilized or unprotected? New methods for analyzing diverging perspectives on the large-scale conversion of tropical grassland ecosystems**

Duration: 2016 - 2018 (Ellrichshausen-Foundation)

Region: West Africa

Countries: Guinea

- **Forage legume silage: a panacea to dairy cattle nutrition in the Tropics**

Duration: 2018 - 2021 (German Academic Exchange Service (DAAD))

Region: South America, East Africa

Countries: Ethiopia, El Salvador



- **PARI: Supporting dairy value chains and smallholder agricultural mechanization in Ghana, Kenya, Tunisia and Zambia: Program of Accompanying Research for Agricultural Innovation**

Duration: 2015 - 2019 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: West, East and North Africa

Countries: Ghana, Tunisia, Kenya, Zambia, Uganda

## Faculty of Natural Sciences

### Institute of Physics and Meteorology (120)

#### Dept. of Physics and Meteorology (120a)

Contact: Prof. Dr. Volker Wulfmeyer, [volker.wulfmeyer@uni-hohenheim.de](mailto:volker.wulfmeyer@uni-hohenheim.de)

- **Advanced seasonal forecasts for the horn of Africa by optimized initialization and perturbation with satellite data**  
Bilateral SDG-Graduate school "Climate Change Effects on Food Security" (CLIFOOD)  
Duration: 08/2021 – 07/2025 (German Academic Exchange Service (DAAD))  
Region: East Africa  
Countries: Ethiopia

### Institute of Chemistry (130)

#### Dept. of Bioorganic Chemistry (130b)

Contact: Prof. Dr. Uwe Beifuß, [uwe.beifuß@uni-hohenheim.de](mailto:uwe.beifuß@uni-hohenheim.de)

- **Phytochemical studies on selected antibacterial and antimalarial medicinal plants from Ethiopia**  
Duration: 07/2014 - 03/2018 (Alexander-von Humboldt Foundation)  
Region: East Africa  
Countries: Ethiopia
- **Research Grants - Doctoral Programmes in Germany (*Combination of the enantioselective formation of furan-2-yl carbinols and their laccase-catalyzed Achmatowicz reactions*)**  
Duration: since 10/2019 (German Academic Exchange Service (DAAD))  
Region: North Africa  
Countries: Egypt
- **Research Grants - Doctoral Programmes in Germany (*New Cu(I)-Catalyzed Domino Reactions between Bisfunctionalized (Het)arenes and Bisfunctionalized Reagents*)**

Duration: 04/2011 - 12/2014 (German Academic Exchange Service (DAAD))

Region: North Africa

Countries: Egypt



- **Research Grants - Doctoral Programmes in Germany (*New Applications of Fungal Laccases for the Efficient Synthesis and Modification of Heterocycles*)**

Duration: 04/2010 - 12/2013 (German Academic Exchange Service (DAAD))

Region: North Africa

Countries: Egypt

## **Institute of Nutritional Sciences (140)**

### **Dept. of Nutritional Science (140a)**

Contact: Prof. Dr. Donatus Nohr, [donatus.nohr@uni-hohenheim.de](mailto:donatus.nohr@uni-hohenheim.de)

- **EaTSANE: Education and training for sustainable agriculture and nutrition in East Africa**

Duration: 09/2018 - 08/2021 (Federal Ministry of Food and Agriculture (BMEL))

Region: East Africa

Countries: Kenya and Uganda

- **EntoNUTRI: Development and implementation of insect-based products to enhance food and nutritional security in sub-Saharan Africa**

Duration: 01/2017 - 01/2020 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: East Africa

Countries: Kenya and Uganda

- **BiomassWeb: Improving food security in Africa through increased system productivity of biomass-based value webs**

Duration: 12/2013 - 11/2018 (Federal Ministry of Education and Research (BMBF))

Region: West Africa

Countries: Ghana

- **Scale-N: Scaling-Up Nutrition: Implementing potentials of nutrition-sensitive and diversified agriculture to increase food**



## security

Duration: 12/2015 - 11/2018 (Federal Ministry of Food and Agriculture (BMEL))  
Region: East Africa  
Countries: Tanzania

- **MicroGap: Entwicklung und Validierung einer userfreundlichen Ernährungserhebungssoftware für Äthiopien zur Erfassung von Mikronährstoffdefiziten**

Duration: 10/2015 - 09/2018 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East Africa  
Countries: Ethiopia

- **TranSEC: Innovating strategies to safeguard food security using technology and knowledge transfer: A people-centred approach**

Duration: 07/2013 - 06/2018 (Federal Ministry of Education and Research (BMBF))  
Region: East Africa  
Countries: Tanzania

- **Aquaculture and the poor: improving fish production, consumption and nutrition linkages**

Duration: 01/2014 - 05/2017 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East Africa  
Countries: Zambia

## Dept. of Food Biofunctionality (140b)

Contact: Prof. Dr. Jan Frank, [jan.frank@uni-hohenheim.de](mailto:jan.frank@uni-hohenheim.de)

- **Vegi-Leg: Implementing innovative processing technologies for nutrient-dense plant foods (African indigenous vegetables and legumes) to safeguard perennial nutrition security – an East African and Southeast African country comparison**

Duration: 09/2018 - 06/2022 (Federal Ministry of Food and Agriculture (BMEL))  
Region: East Africa  
Countries: Tanzania and Mozambique

- ▪ **Nutritional intake of mother-infant pairs in Bukavu, DR Congo**  
 Duration: 01/2017-12/2021 Bread for the World; Foundation Fiat Panis; German Academic Exchange Service (DAAD)  
 Region: Central Africa  
 Countries: Democratic Republic of Congo
  
- ▪ **Nutritional status and dietary intake of macro-and micronutrients by season: cross sectional studies among farmer pairs and their children (6 to 24 months) in Southern Sierra Leone**  
 Duration: 07/2018-12/2021; (German Academic Exchange Service (DAAD))  
 Region: West Africa  
 Countries: Sierra Leone

## **Institute of Food Science and Biotechnology (150)**

### **Dept. of Process Analytics and Cereal Science (150i)**

Contact: Dr. Viktoria Zettel, [viktoria.zettel@uni-hohenheim.de](mailto:viktoria.zettel@uni-hohenheim.de)

- **Integrated Chia and Oyster Mushroom System for Sustainable Food Value Chain in Africa (CHIAM)**  
 Duration: 06/2021 - 12/2023 (German Federal Ministry of food and Agriculture (BMEL))  
 Region: North and East Africa  
 Countries: Kenya, Morocco, Algeria, Egypt, Hungary

### **Dept. of Bioprocess Engineering (150k)**

Contact: Prof. Dr.-Ing. Rudolf Hausmann,

[rudolf.hausmann@uni-hohenheim.de](mailto:rudolf.hausmann@uni-hohenheim.de)

- **Metagenomics identification, characterization and product development of novel microbial surfactants from Germany and South Africa as biosurfactants for commercial application**  
 Duration: 04/2017 - 03/2022 (Federal Ministry of Education and Research (BMBF) and German Research Foundation (DFG))  
 Region: South Africa  
 Countries: South Africa

## **Institute of Food Chemistry (170)**

### **Dept. of Food Chemistry (170b)**

Contact: Prof. Dr. Walter Vetter, [walter.vetter@uni-hohenheim.de](mailto:walter.vetter@uni-hohenheim.de)

- **Tilapia value chains for the poor: testing sustainable practices**

Duration: 11/2015 - 07/2019 (Federal Ministry for Economic Cooperation and Development (BMZ))

Region: North Africa

Countries: Egypt

## **Institute of Biology (190)**

### **Dept. of Plant Physiology and Biochemistry (190c)**

Contact: Prof. Dr. Andreas Schaller, [Andreas.Schaller@uni-hohenheim.de](mailto:Andreas.Schaller@uni-hohenheim.de)

- **Potenzial von Oxophytodiensäurereductasen für die Minderung oxidativen Stresses in transgenen Tomatenpflanzen**

Duration: 08/2017 - 10/2017, 06/2018 - 09/2018 (German Research Foundation (DFG))

Region: North Africa

Countries: Egypt

- ▪ **Abiotic stress resistance in Solanaceous crops**

Duration: 12/2015 - 05/2016 (Ministry of Higher Education, Egypt)

Region: North Africa

Countries: Egypt

- ▪ **Alleviation of oxidative stress and detoxification of lipid peroxidation products by flavin-dependent oxidoreductases**

Duration: 04/2009 - 12/2012 (German Academic Exchange Service (DAAD))

Region: North Africa

Countries: Egypt

## **Dept. of Parasitology (190p)**

Contact: Prof. Dr. Ute Mackenstedt, [parasitologie@uni-hohenheim.de](mailto:parasitologie@uni-hohenheim.de)

- **Übertragungsökologie und Risikofaktoren für zystische Echinokokkose im subsaharischen Afrika**  
Duration: since 2021 (German Research Foundation (DFG))  
Region: East, West and Southern Africa  
Countries: Ethiopia, Ghana, Kenya, Namibia, Zambia
- **Epidemiology and clinical implications of the genetic diversity of Echinococcus spp. in eastern and southern Africa**  
Duration: 05/2015 - 01/2018 (German Research Foundation (DFG)): Deutsch-afrikanische Kooperationsprojekte in der Infektiologie)  
Region: East and Southern Africa  
Countries: Ethiopia and Kenya
- **Epidemiology and clinical implications of the genetic diversity of Echinococcus spp. in Sudan, Kenya, Uganda and southern Africa**  
Duration: 05/2012 - 04/2015 (German Research Foundation (DFG)): Deutsch-afrikanische Kooperationsprojekte in der Infektiologie)  
Region: East and Southern Africa  
Countries: Kenya, Sudan, Zambia, Uganda
- **Epidemiology and clinical implications of the genetic diversity of Echinococcus spp. in Sudan, Kenya, Uganda and South Africa**  
Duration: 05/2009 - 04/2012 (German Research Foundation (DFG)): Deutsch-afrikanische Kooperationsprojekte in der Infektiologie)  
Region: East and Southern Africa  
Countries: Kenya and South Africa
- **Transmission ecology and risk factors for cystic echinococcosis in sub-Saharan Africa**  
Duration: 01/2022 - 12/2024 (German Research Foundation (DFG)):  
Region: South, East and West Africa  
Countries: Kenya, Sambia, Namibia, Ghana, Ethiopia

# Faculty of Business, Economics and Social Sciences

## Institute of Economics (520)

### Dept. of Public Economics (520d)

Contact: Prof. Dr. Nadja Dwenger, [nadja.dwenger@uni-hohenheim.de](mailto:nadja.dwenger@uni-hohenheim.de)

- **SAFARI: Successful Advances in Fiscal Architecture – Evidence from a new tax in Zanzibar**

Duration: 2021 - 2024 (Research Council of Norway)

Region: East Africa

Countries: Tanzania

### Dept. of Bioeconomy (520m)

Contact: Prof. Dr. Franziska Schünemann, [f.schuenemann@uni-hohenheim.de](mailto:f.schuenemann@uni-hohenheim.de)

- **LANDYN: Land and labour dynamics in the future of African transformation**

Duration: 01/2020 - 12/2022 (German Research Foundation (DFG))

Region: West and East Africa

Countries: Ghana, Tanzania, Malawi

## Institute of Health Care & Public Management (530)

### Dept. of Household and Consumer Economics (530a)

Contact: Prof. Dr. Alfonso Sousa-Poza, [alfonso.sousa-poza@uni-hohenheim.de](mailto:alfonso.sousa-poza@uni-hohenheim.de)

- **SURE-FOOD: Strengthening urban resilience in food and nutrition security in Kenya**

Duration: 06/2021 – 05/2024 (Federal Ministry of Education and Research (BMBF))

Region: East Africa

Countries: Kenya



- **Food and Nutrition Security in Climate Sensitive Agriculture – Choice of Risk Management and Coping Strategies in Different Resource Settings Among Rural Farm Households in Ethiopian Highlands**

Duration: 2013 (German Academic Exchange Service (DAAD);  
Foundation Fiat Panis)  
Region: East Africa  
Countries: Ethiopia



## Centers

### Research Center for Global Food Security and Ecosystems (GFE) (702)

Contact: Carolin Callenius, [carolin.callenius@uni-hohenheim.de](mailto:carolin.callenius@uni-hohenheim.de)

- **LEAP4FNSSA: Long-term EU-AU Research and Innovation Partnership for Food and Nutrition Security and Sustainable Agriculture**

Duration: 11/2018 - 10/2022 (European Commission, H2020)

Region: Europe, Africa

- **Mercury-AMF: Phytoremediation of mercury contaminated mining sites in Ghana and Burkina Faso with arbuscular mycorrhizal fungi.**

Duration: 2019 - 2022 (German Federal Ministry of Education and Research (BMBF))

Region: West Africa

Countries: Ghana and Burkina Faso

- **EatSANE: Education and Training for Sustainable Agriculture and Nutrition in East Africa**

Duration: 2018 - 2021 (Federal Ministry of Food and Agriculture (BMEL))

Region: East Africa

Countries: Uganda and Kenya

### Research Center for Health Sciences – One Health (703)

Contact: Irene Huber, [irene.huber@uni-hohenheim.de](mailto:irene.huber@uni-hohenheim.de)

- **SURE-FOOD: Strengthening urban resilience in food and nutrition security in Kenya**

Duration: 06/2021 - 05/2024 (Federal Ministry of Education and Research (BMBF))

Region: East Africa

Countries: Kenya



- **Joint Research and Innovation Agenda for the Innov8Health Initiative of UHOH, LUANAR & EKUT**

Duration: 11/2021 – 04/2022  
Region: South and East Africa  
Countries: Malawi and neighboring countries

## **Food Security Center (FSC) (791)**

Contact: Dr. Nicole Schönleber, [nicole.schoenleber@uni-hohenheim.de](mailto:nicole.schoenleber@uni-hohenheim.de)

- **NutritionSec: Food and Nutrition Security and Right to Food**

Duration: 2017 - 2020 (German Academic Exchange Service (DAAD))  
Region: West Africa

- **BiomassWeb: Improving food security in Africa through increased system productivity of biomass-based value webs - WP 6.3 Global Utilization of Biomass, Locally adapted solutions**

Duration: 2013 - 2019 (German Federal Ministry of Education and Research (BMBF))  
Region: West and East Africa

- **EntoNUTRI: Development and implementation of insect-based products to enhance food and nutritional security in sub-Saharan Africa**

Duration: 2016 - 2019 (German Corporation for International Collaboration (GIZ); Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East Africa

- **MicroGap: Entwicklung und Validierung einer userfreundlichen Ernährungserhebungssoftware für Äthiopien zur Erfassung von Mikronährstoffdefiziten**

Duration: 10/2015 - 07/2017 (Federal Ministry for Economic Cooperation and Development (BMZ))  
Region: East Africa

- ▪ **Food Security Center**

Duration: 2009 - 2022 (German Academic Exchange Service (DAAD), Higher Education Excellence in Development Cooperation)  
Region: West and East Africa

- ▪ **German-Ethiopian SDG Graduate School: Climate Change Effects on Food Security (CLIFOOD)**

Duration: 2016 - 2020, Phase I (German Academic Exchange Service (DAAD), Bilateral SDG Graduate Schools)





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