



Photo: Walter T. de Vries

Issue No. 6 | October 2019

## TUM.Africa Newsletter

### Latest news on TUM.Africa

#### ► Visit of Bundesminister Dr. Gerd Müller (BMZ) to TUM.

Bundesminister Dr. Gerd Müller (BMZ) will visit TUM on 18 October 2019. TUM.Africa will be on the agenda during this visit.

### Recent TUM activities in Africa

#### ► TUMJA PODCAST Series by "Africast" of the TUM Young Academy

The TUM Young Academy Team "Africast" (<https://www.youtube.com/channel/UC7sUUmwa4-eUaR8SzgRpwtg>) is developing a podcast series on both academic and practical KNUST projects in Ghana. These podcasts are aimed to be spread out at the TUM to help the Africa Initiative gain attention, so that more TU students and KNUST students are informed. In the 3<sup>rd</sup> podcast episode [rebrand.ly/africast-ep3](https://rebrand.ly/africast-ep3), Frank Achampeong, a student of industrial chemistry and environmental resource management talks about the challenges of waste management in Ghana. The 4<sup>th</sup> podcasts [https://www.youtube.com/watch?v=b\\_LkOk08DQc](https://www.youtube.com/watch?v=b_LkOk08DQc) introduces Johannes Winklmaier, founder and CEO of TU eMpower Africa, who talks about creating decentralized, renewable energy systems in rural regions. More podcasts are following soon.

#### ► Burkina Institute of Technology (BIT) hosted their first guest lecturer from the Technical University of Munich

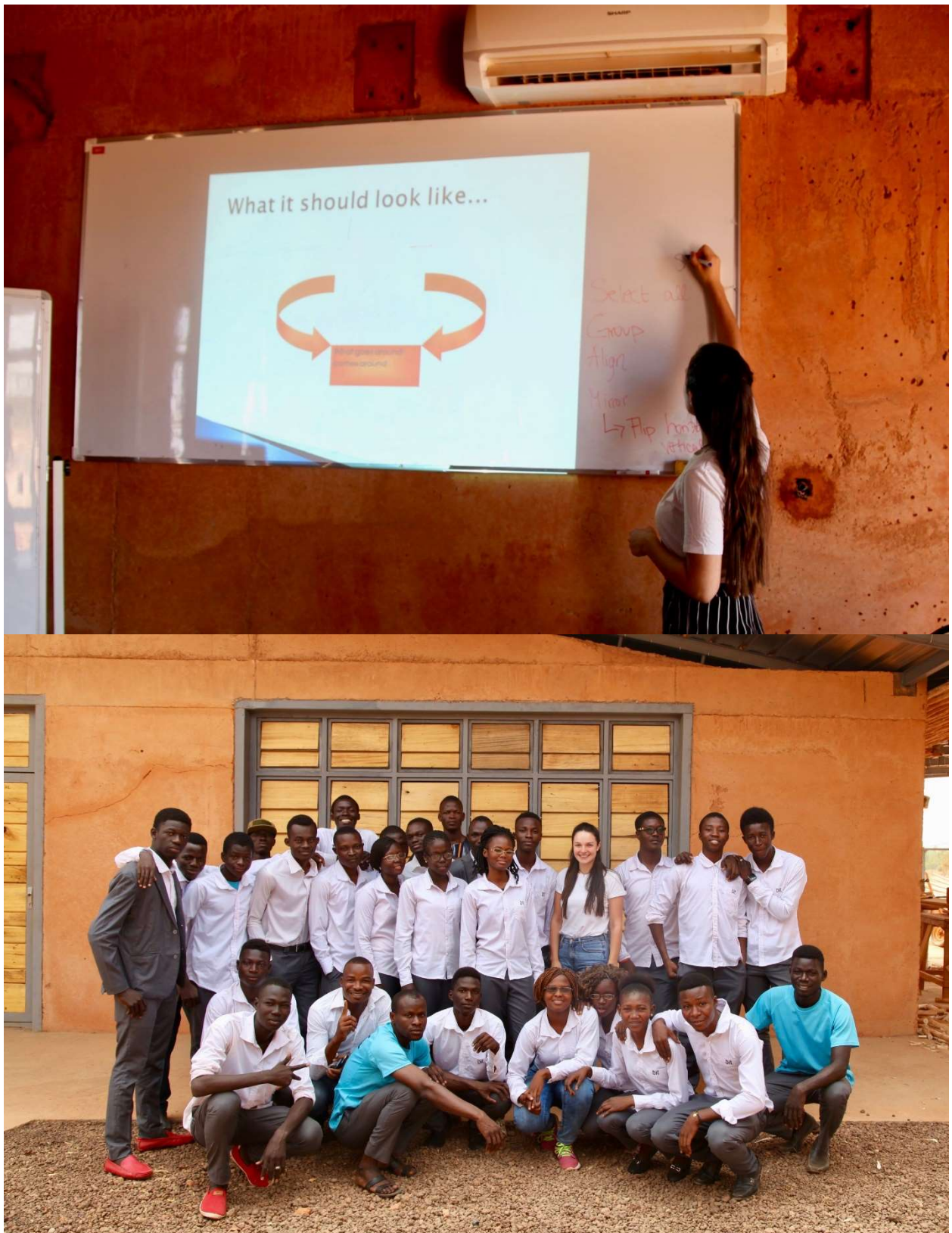
Earlier this year, the Burkina Institute of Technology (BIT) hosted their first guest lecturer from the Technical University of Munich. Nadia Riedl, by now a Bachelor of Science graduate, combined the research for her Bachelor Thesis at the Chair of Entrepreneurial Finance with an exciting teaching experience at the BIT during her two months stay in Koudougou, Burkina Faso. The first practical module "Introduction to Microsoft Office" is a 5-week course for first semester students, where students get to know the basics of Microsoft

Word, PowerPoint and Excel. She prepared the entire course syllabus based on EdX courses and TUM resources. Considering many students have never used a computer before starting with university, the progress they made was incredible. Apart from the technical knowledge they gained, it was also about developing soft skills – further improving their English, teamwork and presentation competencies were a big focus of this practical module. Overall, the course was a great success and contributed to forming a solid basis for the following Computer Science modules.

Parallel, Nadia met and interviewed various interesting Entrepreneurs researching their self-perceptions within the framework of the Social Identity Scale developed by Fauchart & Gruber. While Nadia profited from the connections of the BIT with numerous business people throughout the country, she also managed to spread the new university concept further during the interviews and to attract potential guest speakers for future references.







Pictures from Dr. Svenja Jarchow [jarchow@tum.de](mailto:jarchow@tum.de)

### ► Blockchain for land registration in Ghana (FIT4Ghana)

In the context the practical course DLT4PI during the summer semester 2019 a project team of 5 Master Students at Department of Informatics (C. Dragnea, A. Pettirsch, A. Azmat, S.

Dasgupta and N. Gopinath) conducted a blockchain proof of concept project with the support of fortiss (Forschungsinstitut des Freistaats Bayern für softwareintensive Systeme und Services) and the Chair of Land Management. Goal of the project was to design and implement a workable solution for land registration and land grabbing problems in Ghana. The pilot focused on the land management context of Trede, Ghana, which has a complex system of land tenure arrangements, consisting of a mix of both customary and statutory land rights. The aim was to design a Proof of Concept (PoC) based on Hyperledger Fabric whereby all stakeholders could register and manage statutory and customary lands simultaneously. The PoC was presented at fortiss on 15 July 2019.

### ► Health science internship at the TUM Field Station in Malindi, Kenya

This summer term, several students (Bachelor in Health Science) had the opportunity to complete an internship in Kenya while living at the TUM Field Station in Malindi. With this report, Lena Kramheller und Claudia Seidl give an insight into their experiences and lessons learned while staying abroad. If you have any questions and/or are also interested in an internship or research stay in Kenya, please contact Dr. Isabella Bertmann-Merz ([isabella.bertmann@tum.de](mailto:isabella.bertmann@tum.de)).



Photo: Dr. Isabella Bertmann-Merz

### ► Land tenure in semiarid Kenya

In August and September 2019, a team of four students (Anna Linda Samhammer – Environmental Engineering, Sophia Barbara Endt – Geography, Stellamaris Ogutu – Land Management and Elizabeth Wandakay – Land Management), 2 field assistants and one leading researcher (Tobias Bendzko – Lecturer at the Chair of Land Management, TUM) collected data on land tenure. <https://www.bgu.tum.de/bole/startseite/news-single-view/article/land-tenure-in-semiarid-kenya/>





Photo Chair Bole

#### ► **ADLAND conference, Zanzibar, Tanzania**

The land management Chair organized and contributed to the ADLAND conference which took place 25-26 July 2019. During the conference book chapters of the upcoming publication *Responsible and smart land management interventions in Africa* were presented and discussed. It was connected to and preceded by the EALAN annual meeting (Eastern African Network for Land Administration). Contact Dr. Pamela Duran [pamela.duran@tum.de](mailto:pamela.duran@tum.de)



Photo. Walter T. de Vries



Photo: EALAN (<https://www.flickr.com/photos/145456376@N02/48345239852/in/album-72157709800252357/>)

## Upcoming TUM activities in Africa



## Recent TUM publications on Africa

- ▶ Mekonnen, Dagnenet Fenta, 2019, Impacts of changes in Climate, Land Cover and Water Management on Water Availability of the Upper Blue Nile River Basin, Ethiopia, doctoral dissertation at the BGU Faculty :<http://mediatum.ub.tum.de?id=1484483>
- ▶ Maduekwe, Ebelechukwu; de Vries, Walter T.; Buchenrieder, Gertrud, 2019, Identifying Human Recognition Deprived Women: Evidence from Malawi and Peru. The Journal of Development Studies, 2019, 1-21

## Calls for proposals related to Africa

- ▶ TUM Global Incentive Fund 2019 - Call for Proposals, <https://www.international.tum.de/en/go-international/research-and-teaching/tum-global-incentive-fund/>. Deadline 18 October 2019.

### Contact

If you would like to contribute to this newsletter, please [send an e-mail to Prof. de Vries](#).  
Deadline for the next issue: December 31, 2019