

## **SHORT COURSE ON ECOLOGICAL MODELLING May 21<sup>st</sup> - May 24<sup>th</sup>, 2018**

### **INSTRUCTORS:**

#### **Thomas Clemen (Prof Dr)**

Thomas Clemen is a full Professor of Computer Science at Hamburg University of Applied Sciences, Germany, and Vice Dean of the Faculty of Engineering & Computer Science. His interdisciplinary research mainly focuses on applying computer science to ecology, epidemiology and other domains. He founded the Multi-Agent Research & Simulation Group (MARS, <http://www.mars-group.org>) and is currently establishing an international network of socio-ecological modelling to support capacity building. Hamburg University of Applied Sciences (HAW) focuses on applied sciences, giving the students a practical insight into their fields of study through projects, lab work, internships and theses in industry and research. A number of high-ranked research projects - some in collaboration with national and international top universities - proof its scientific excellence.



#### **Karen Bradshaw (Prof Dr)**

Karen Bradshaw is an Associate Professor in the Department of Computer Science, Rhodes University, Grahamstown, South Africa. Her main area of research is parallel and distributed computing, including general purpose programming on graphics processing units (GPUs). She is particularly interested in accelerating sequential applications by porting them to GPUs. Since computer models and simulations are ideal candidates for acceleration on a GPU due to their very high computational requirements, Karen has been involved in various computer modelling projects, specifically aimed at ecological modelling. A further research interest is in facilitating the use of information and communications technology for non-computer scientists, and in this regard, she is exploring ways of creating high level libraries for use in computer modeling.



#### **Ulfia A. Lenfers (M.Sc.)**

Ulfia Lenfers studied geography, botany and soil science at University of Kiel, Germany. She completed her M.Sc. in Environmental Science through the Interdisciplinary Distance Studies program. Since 2015, she has been working in an international project to assess the impact of climate change and land-use management on African savanna ecosystems (<http://www.ars-africae.org>). In her research she is focusing on conceptual modelling, tree ecology and functional traits.

