Dr Katharina Waha

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Research Interests

- interdisciplinary research on the interactions between biosphere and human societies
- regional and global climate change impact research
- adaptation potential of shifts in sowing dates and cropping systems
- historic extreme events and agriculture

Methods

- agricultural systems modeling
- data integration, sensitivity and uncertainty analysis
- cross-scale analysis

EDUCATION

2013	**PhD** (magna cum laude) University of Potsdam, Faculty of Science, Institute for Earth and Environmental Science. Thesis: Climate Change Impacts on Agricultural Vegetation in Sub-Saharan Africa.
2008	**MSc** (very good) University of Leipzig, Faculty of Physics and Earth Sciences, Institute for Geography. Thesis: Exploration and localization of future urban land use change in flood plains. An application of the grid-based simulation model LuSIM.

EMPLOYMENT

06/2012 – 10/2012	**Visiting Scientist** Commonwealth Scientific and Industrial Research Organization (CSIRO), Sustainable Agriculture Flagship, Brisbane, Australia. - Conduct a crop model comparison study. - Explore the influence of uncertainties in model design, input data and validation data for food production and food security studies.
03/2013 - present	**Postdoctoral Research Fellow** Potsdam Institute for Climate Impact Research, Potsdam, Germany. - Agricultural Model Intercomparison and Improvement Project (AgMIP) (involved in providing simulation results for AgMIP-wheat and AgMIP-maize). - Worldbank turn down the heat III: Regional analysis - The case for Climate Resilience (involved as regional coordinator for the region Middle East and North

Africa).

11/2008 – present	**Research Fellow and PhD Student**
	Potsdam Institute for Climate Impact Research, Potsdam, Germany.
	- Assessing climate change impacts on agriculture in sub-Saharan Africa in the GIZ-IFPRI project Strategies for Adapting to Climate Change in Rural Sub-Saharan Africa: Targeting the Most Vulnerable.
06/2008 – 08/2008	**Research Fellow**
	Institute for Earth and Environmental Science, University of Potsdam, Germany.
	- Monitoring and modeling throughfall in a tropical forest ecosystem in the research project Agua Salud – a collaborative ecosystem services research project in the Central Panama Canal Basin.

PROFESSIONAL ACTIVITIES

Student Supervision	J. Marder together with H. Hoff, Management intensity and sustainable intensification in sub-Saharan Africa agriculture
Teaching Activities	5-day seminar, Using geographical information systems in soil science, Institute for Earth and Environmental Science, University of Potsdam, Germany, 2009
	Teaching assistant supporting the seminar Physical Geography, Institute for Geography, University of Leipzig, Germany, 2004
Article Review for Journals	Global Change Biology, Global Environmental Change, Agriculture, Ecosystems & Environment, Regional Environmental Change, Ecological Economics, African Journal for Agricultural Research, Field Crops Research
Organization of Scientific Events	Crop model development in research groups at Lund University, Potsdam Institute for Climate Impact Research and Karlsruhe Institute of Technology, 4-5 June 2012, Potsdam. (Mainly responsible)
	Impacts World 2013. International Conference on Climate Change Effects, Potsdam Institute for Climate Impact Research and International Institute for Applied Systems Analysis, 27-30 May 2013, Potsdam. (Member of the Organising Committee)
Membership	German Geographical Society (DGfG)

COMPUTER SKILLS

Excellent in R (statistical computing and graphics), proficient with GIS software, experienced with C programming and statistical analysis in SPSS, project management web application (Redmine) and source code management (TortoiseSVN).

LANGUAGE SKILLS

German (native), English (fluent) and Spanish (basics)

Potsdam, February 2014