

**Personal data**

Date of birth 24.4.1957  
Place of birth Addis Abeba, Ethiopia  
Nationality German  
Family status Married, 5 children



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Language skills German: Mother tongue  
English: very good  
French: good  
Portuguese: good  
Amharic: fair

**Education**

	<i>Place</i>	<i>Type / Discipline</i>	<i>Degree / Year</i>
<i>School</i>			
German School	Addis Abeba	Pre-school through secondary school	Abitur 1976
<i>Practicum</i>			
Research project	Jimma, Ethiopia	3-month practical work with coffee berry disease (CBD)	Certificate 1975
Research farm	Rudlos, Germany	One-year practical agriculture on a diversified farm (crops and livestock)	Certificate 1977
Dairy farm	Scottsville – VA, USA	½ - year practical agriculture	Certificate 1978
<i>Academic</i>			
University	Göttingen, Germany	Agric. Sciences (Tropical Agriculture)	Diploma 1985
University	Göttingen, Germany	Agric. Sciences (Tropical Agriculture)	PhD 1992

**Dissertation of Diploma and PhD**

Diploma Einfluß der VA-Mykorrhiza auf Wachstum und Nährstoffaufnahme von *Capsicum annuum* L. bei Düngung mit Rohphosphaten (Effect of VA-mycorrhiza on growth and nutrient uptake of *Capsicum annuum* L. fertilized with different rock phosphates)

PhD Untersuchungen zur Rolle der Phosphatasen im P-Aufnahmemechanismus von VA-Mykorrhizawurzeln (Investigations on the role of phosphatasen in the P uptake mechanism of VA-mycorrhizal roots)

## Employment record (in reverse chronological order)

Sep. 03 – date Senior Scientist, Director of Training Center, Research and Development Coordinator  
Employer: Center for Development Research (ZEF), University of Bonn, Germany  
Location: Ouagadougou and Dano, Burkina Faso; Bonn, Germany  
Functions: Coordinator of a research, development and training project for cropping systems under irrigation  
Coordinator of a multidisciplinary research project in southwestern Burkina Faso (GLOWA), which includes conceptual scientific planning and research execution as well as connected administrative tasks.

Sep. 01 – Aug. 03 Senior Scientist, Project Coordinator  
Employer: Center for Development Research (ZEF), University of Bonn, Germany.  
Location: Bonn, Germany  
Functions: Coordinator of 3 multidisciplinary research projects in northeastern Amazonia, Brazil, which includes conceptual scientific planning and research execution as well as all connected administrative issues.  
Coordinator of disciplinary PhD course of ZEF 'Ecology, Land Use and Development'  
Supervisor of PhD, Master, and Diploma students

Sep. 99 – Aug. 01 Senior Scientist  
Employer: Center for Development Research (ZEF), University of Bonn, Germany.  
Location: Belém, Eastern Amazon, Brazil  
Functions: Coordinator of the research project “Secondary Forests and Fallow Vegetation in the Eastern Amazon Region - Function and Management”<sup>1</sup>  
Coordinator of multidisciplinary research projects in Belém, Brazil.<sup>2</sup>  
Supervisor of PhD, Master, and Diploma students

The projects aim at a more sustainable land use in the forest margins. The components:  
Project 1: secondary vegetation (as fallow) and crops (annual and perennial),  
Project 2: pasture management and livestock, and  
Project 3: socio-economic analysis of the above two (private and public cost-benefit analyses)  
are being integrated to a multidisciplinary task.

Alternative technologies are being developed to replace the traditional slash-and-burn system by mulch based land-use systems including chop-and-mulch, fallow enrichment, and pasture intensification. The northeastern region of Pará state was chosen as representative benchmark site due to its long lasting history of settlement in primary forest areas. During the here described project phase, mainly participatory on-farm research as well as technology transfer is being carried out by the above-mentioned projects. Additionally public private partnerships are being established to ensure future implementation of motor-mechanized chopping. Engineering industries as well as service providers are being involved. Brazilian Politicians are being made aware of the unique alternative to slash-and-burn, which may enable them to implement the non burning law by offering governmental support to the farmers in favor of the introduction of the chop-and-mulch alternative.

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<sup>1</sup> The project was implemented within a bilateral research program “Studies of Human Impact on Forests and Floodplains of the Tropics (SHIFT)” financed by the German Ministry of Research and Education (BMBF) and the Brazilian National Council for Scientific and Technological Development (CNPq)

<sup>2</sup> Two further projects of the same SHIFT program: “The role of cattle in the fallow systems of the Eastern Amazon region” and “Small holders in Amazonia: Interactions between ecosystem and social system in tropical rain forests”

- Sep. 95 – Aug. 99      Senior Scientist  
Employer:    Institute of Agriculture in the Tropics (IAT), University of Göttingen, Germany.  
Location:    Belém, Eastern Amazon, Brazil  
Functions:    Coordinator of the project “Secondary Forests and Fallow Vegetation in the Eastern Amazon Region - Function and Management”  
Supervisor of PhD, Master, and Diploma students  
Alternative technologies are being developed to replace the traditional crop-fallow cycle with slash-and-burn as a land preparation means by mulch based land-use systems allowing intensification through conservation of organic matter and nutrients at land preparation and by shortening fallow periods using sustainable tree-enrichment technologies. In the here described phase the project carries out mainly researcher managed on-farm research.
- Feb. 93 – Aug. 95      Scientist at the International Institute of Tropical Agriculture (IITA) in Ibadan, Nigeria  
Location:    Ibadan, Nigeria, forest-savanna transition zone  
Functions:    Coordinator of the project “Impact of Fallow Management Systems and Cropping Intensity on Water and Nutrient Dynamics of a Tropical Alfisol”<sup>3</sup>  
Supervisor of PhD and Master students  
Water and nutrient dynamics were studied in different fallow management systems (hedgerow intercropping, live-mulch, natural fallow). On-station research.
- Jan. 91 – Dec. 91      Scientist at the Institute of Agriculture in the Tropics (IAT) of the University of Göttingen, Germany, responsible for the development of a database on cultivated plants of the tropics.
- Sep. 86 – Aug. 88      Scientist at the Institute of Agriculture in the Tropics (IAT) of the University of Göttingen, Germany. Research project financed by Deutsche Forschungsgemeinschaft (DFG) on research on the rhizosphere (part-time).
- Sep. 83 – Oct. 83      Visiting student at Bayer AG company, Plant Protection Department / Biological Development. Develop insect database.

### **Further activities**

- Mar. 87 – Apr. 87      Visiting junior scientist at “Station de Génétique e d’Amélioration des Plantes“ of the „Institut National de la Recherche Agronomique (INRA)“ in Dijon, France. Enzyme extraction of plant roots and electrophoretic separation of proteins and enzymes.
- Jan. 86 – Jul. 86      Research assistant at the Institute of Agriculture in the Tropics (IAT) of the University of Göttingen, Germany. Proposal writing.

### **Self-employed**

- 1988 - 1992      Production and marketing of scientific books for the publishing houses GTZ, Eschborn and J. Margraf, Weikersheim
- 1991 - 1992  
(sporadically)      Course instructor of office software

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<sup>3</sup> Special project, financed by the Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ), Eschborn, Germany