

Curriculum Vitae

Personal

Date of birth
Citizenship
Marital status

26/08/1970 in Neumarkt/Opf.
German
Single

Work experience

since 01/2012

Researcher, Department of Water Engineering and Management,
University of Twente, Enschede, The Netherlands

- Water Footprint research

09/2011 – 11/2011

Engineer, Weather and Wind Energy Prognosis (WEPROG),
Germany & Denmark
Projects and Development

12/2004 – 08/2011

Senior Lecturer, Institute of Hydrology, Water Resources
Management and Environmental Engineering, Ruhr-University
Bochum, Germany

- Teaching responsibility 7 lecture hours per week (lectures: Hydrology, Hydrometry, Water Management, Water Works, River Basin Management, GIS-Applications in Hydrology und Water Management, Open Channel Hydraulics and River Engineering, Statistical Methods)
- Adviser of student projects, Diplom-, Bachelor- and Master-Theses
- Project acquisition: national and international funding agencies, EU-framework, Consulting projects
- Project coordination and management of research projects and of consulting projects. Dissemination of the results in the press, project reports and scientific journals. Examples: German Ministry for Education and Research-joint research project „Integrated Utilization of Technical Flood Retention in Polders and Dams: The Unstrut River Case Study“ (2005 - 2008); German Ministry for Education and Research-joint research project „Development of a risk-based decision support system to identify protection measures for extreme flood events“ (2006 - 2009); German Ministry for Education and Research-joint research project „Sustainable Water Resources Management in the Coastal Region of the Shandong Province, P.R. of China“ (2008 - today)
- Research and projects in the areas flood management, integrated water resources management, risk analysis, climate change, river basin management, ecology, hydro power, wind energy, coupling of renewable and non-renewable energy resources

	<ul style="list-style-type: none"> ▪ Coordination of the EU-ERASMUS-exchange program for students and faculty in civil and environmental engineering ▪ Organization and coordination of the 3rd International Symposium on Integrated Water Resources Management 2006 in Bochum, Germany
08/2007 - 08/2008	<p>Guest lecturer („International German Summer School on Hydrology“ at Ruhr-University Bochum, Germany)</p> <ul style="list-style-type: none"> ▪ Organization and management of the summer school for the area Hydrology of Surface Waters (lectures, excursions and publications of papers)
04/2006 - 07/2007	<p>Guest lecturer (binational Master-Course „Transnational Ecosystem-Based Water Management“ at University Duisburg-Essen, Germany and Radboud Universiteit Nijmegen, The Netherlands)</p> <ul style="list-style-type: none"> ▪ Lectures, excursion: topic Flood Management
02/2003 - 11/2004	<p>Postdoctoral Fellow, National Oceanic and Atmospheric Administration (NOAA), Environmental Technology Laboratory, Boulder, Colorado, USA</p> <ul style="list-style-type: none"> ▪ Research in the areas of remote sensing using LIDAR (Light Detection and Ranging) and Aerosol-Cloud-Climate-Interaction ▪ Preparation and management of the field campaign NEAQS – New England Air Quality Study and analysis of measurements ▪ Publication of research results in scientific journals and presentation at national and international conferences
01/1998 - 01/2003	<p>Research and teaching assistant, Department of Geography and Environmental Engineering, Johns Hopkins University, Baltimore, USA</p> <ul style="list-style-type: none"> ▪ Research in the areas experimental and computational investigation of transport of e.g. aerosols, pollen, etc. in the troposphere, hydrology, remote sensing using LIDAR (Light Detection and Ranging), air quality, climate change ▪ Planning and management of various field campaigns in the area of atmospheric and hydrologic sciences; analysis and publication of research results (1998: Amana, IA (USA); 1999: Davis, CA (USA); 1999: Clear Lake, CA (USA); 2000: Iowa City, IA (USA); 2001: Boulder, CO (USA); 2001: Baltimore PM Supersite, MD (USA), 2002: Biocomplexity, MD (USA)) ▪ Teaching load 2 hours per week (lectures: Hydrology, Environmental Transport Phenomena, Micrometeorology, Fluid Mechanics) ▪ Presentation of research results at national and international conferences
09/1997 - 12/1997	<p>Guest researcher, Department of Civil and Environmental Engineering, University College Cork, Ireland</p>

- Instrumentation of a hydrologic research plot
- Research in the areas of hillslope hydrology, hydrology of agriculturally used fields

Education

01/1998 - 01/2003

Ph.D., Environmental Engineering specialization atmosphere and water (Johns Hopkins University, Baltimore, USA)

01/1998 - 01/2001

M.S.E., Environmental Engineering, specialization atmosphere and water (Johns Hopkins University, Baltimore, USA)

10/1992 - 08/1997

Dipl.-Ing., Civil Engineering, specialization water, waste water, waste (Ruhr-University Bochum, Germany)

Publications

Mainly in the areas water resources and environmental engineering:

- 1 book
- 6 book chapters
- 35 papers in refereed scientific journals and conference proceedings

IT skills

- Microsoft Windows OS, Unix, Linux
- Microsoft Office, Open Office, LaTeX
- Microsoft Project
- Fortran, C, Matlab, IDL, Statistica, HEC-RAS, HEC-HMS
- Data base MS Access, WISKI
- Adobe InDesign, Adobe Illustrator
- Geoinformationsystem ArcGIS

Language skills

- German: Mother language
- English: Fluent
- French: Basic
- Spanish: Basic

Memberships and activities

- Member of the American Geophysical Union, European Geophysical Society and International Association of Hydrological Sciences
- Member Permaculture Institute, Greenpeace, WWF
- Reviewer for Advances in Water Resources, Boundary-Layer Meteorology, Geophysical Research Letters, Journal of Geophysical Research and Water Resources Research

- Associate Editor, Water Resources Research (2007 – 2009)

**Voluntary work
and further
interests**

- Teaching of introductory courses in permaculture in conjunction with the Permaculture Institute Germany
- Yoga teacher
- Interests: Yoga, hiking, gardening, reading, music