

# Curriculum Vitae

## Personal

Date of birth  
Citizenship  
Marital status

**26/08/1970 in Neumarkt/Opf., Germany**  
**German**  
**Single**

## Work experience

since 01/2012

**Researcher**, Faculty of Civil Engineering, Water Management group, University of Twente, Enschede, The Netherlands

- Water resources research and projects
- Development and delivery of Water Footprint training courses
- Teaching in the Master Programme: River Basin and Coastal Zone Management
- Research and consulting project acquisition and execution

11/2005 – 11/2011

**Senior Engineer and Consultant**, Weather and Wind Energy Prognosis (WEPROG), Germany & Denmark

- Projects and development
- Project reports and publications

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.
- 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
- Coordination of the EU-ERASMUS-exchange program for students and faculty in civil and environmental engineering

	<ul style="list-style-type: none"><li>▪ Organization and coordination of the 3<sup>rd</sup> International Symposium on Integrated Water Resources Management 2006 in Bochum, Germany</li></ul>
08/2007 - 08/2008	<p><b>Guest lecturer</b> („International German Summer School on Hydrology“ at Ruhr-University Bochum, Germany)</p> <ul style="list-style-type: none"><li>▪ Organization and management of the summer school for the area Hydrology of Surface Waters (lectures, excursions and publications of papers)</li></ul>
04/2006 - 07/2007	<p><b>Guest lecturer</b> (bi-national 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"><li>▪ Lectures, excursion: topic Flood Management</li></ul>
02/2003 - 11/2004	<p><b>Postdoctoral Fellow</b>, National Oceanic and Atmospheric Administration (NOAA), Environmental Technology Laboratory, Boulder, Colorado, USA</p> <ul style="list-style-type: none"><li>▪ Research in the areas of remote sensing using LIDAR (LIght Detection and Ranging) and Aerosol-Cloud-Climate-Interaction</li><li>▪ Preparation and management of the field campaign NEAQS – New England Air Quality Study and analysis of measurements</li><li>▪ Publication of research results in scientific journals and presentation at national and international conferences</li></ul>
01/1998 - 01/2003	<p><b>Research and teaching assistant</b>, Department of Geography and Environmental Engineering, Johns Hopkins University, Baltimore, USA</p> <ul style="list-style-type: none"><li>▪ 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</li><li>▪ Planning and management of 7 field campaigns in the area of atmospheric and hydrologic sciences; analysis and publication of research results</li><li>▪ Teaching load 2 hours per week (lectures: Hydrology, Environmental Transport Phenomena, Micrometeorology, Fluid Mechanics)</li><li>▪ Presentation of research results at national and international conferences</li></ul>
09/1997 - 12/1997	<p><b>Guest researcher</b>, Department of Civil and Environmental Engineering, University College Cork, Ireland</p> <ul style="list-style-type: none"><li>▪ Instrumentation of a hydrologic research plot</li><li>▪ Research in the areas of hillslope hydrology, hydrology of agriculturally used fields</li></ul>

## Education

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|-------------------|---------------------------------------------------------------------------------------------------------------------------|
| 01/1998 - 01/2003 | <b>Ph.D., Environmental Engineering</b> specialization atmosphere and water (Johns Hopkins University, Baltimore, USA)    |
| 01/1998 - 01/2001 | <b>M.S.E., Environmental Engineering</b> , specialization atmosphere and water (Johns Hopkins University, Baltimore, USA) |
| 10/1992 - 08/1997 | <b>Dipl.-Ing., Civil Engineering</b> , specialization water, waste water, waste (Ruhr-University Bochum, Germany)         |

## Publications

Mainly in the areas water resources and environmental engineering:

- 1 book
- 7 book chapters
- 37 papers in refereed scientific journals and conference proceedings
- Project reports
- Technical documentation

## IT skills

- Microsoft Windows OS, Unix, Linux
- Microsoft Office, Open Office, LaTeX
- Fortran, C, Matlab, Statistica, R
- HEC-RAS, HEC-HMS, EPIC, APEX
- Data base MS Access
- Adobe InDesign, Adobe Illustrator
- Geoinformationssystem ArcGIS

## Language skills

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

## Memberships and activities

- Member of the American Geophysical Union, European Geophysical Society and International Association of Hydrological Sciences
- Reviewer for Hydrology and Earth System Sciences, Geoscientific Model Development, 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)