

# Curriculum Vitae

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## Martin Wildenberg

Rokitanskygasse 7/48

1170 Wien

e-mail: martin.wildenberg@global2000.at

tel.nr.: ++43 699/14200046

Date of birth: 19.3. 1977

Place of birth: Überlingen am Bodensee, Germany

Personal details:

2002 Birth of daughter Leonie

2006 Birth of son Valentin

2010 Birth of daughter Flora

## Research & related work:

2010 - ongoing	Expert for the environmental NGO 'GLOBAL 2000' (Friends of the Earth Austria) in a Project for the sustainable production of agricultural products. We are developing a monitoring and indicator system for Austria's biggest retailer. The system is based on a detailed farm-field model and on the calculation of material and energy input and CO2 output along the production chain. My main tasks are coordinating and conceptualizing the database and analysis tools, stakeholder involvement and indicator development.
2010	Tutor and lecturer at the 2009 Potsdam Institute of Climate Impact Research summer school in Peyresq, France. Topics: Vulnerability analysis and scenario development.
2009	Tutor and lecturer at the 2009 Potsdam Institute of Climate Impact Research summer school in Peyresq, France. Topics: Vulnerability analysis and scenario development.
2008 – 2009	Researcher for the Austrian Environmental Agency (Umweltbundesamt) in the scope of setting up LTER-Europe (Long-Term-Ecological-Research) and implementation of the ILTER Ecosystem Services Assessment project for the LTER Eisenwurzen
2006 – 2009	Researcher at the Institute for Social-Ecology Vienna, Austria for the following projects:  Integrated modeling of social and environmental material flows. A participative agent based modeling project. The model consists of three main components: an agent based model for modeling actors decision making, a spatially explicit GIS based land-use module and a stock and flow model representing the stocks and flows of carbon and nitrogen.  "RECOVER (REsearch on COping with Vulnerability to Environmental Risk) Sustainable development on the central Nicobars in the aftermath of the 2005

	<p>Tsunami.</p> <p>In ALTER-Net (an European network of excellence project) on the following topics:</p> <ul style="list-style-type: none"> <li>• Analyzing social conflicts in biodiversity conservation</li> <li>• Knowledge needs in conservation management – using Fuzzy Cognitive Mapping to compare and analyses mind maps of different stakeholders involved or affected by conservation.</li> <li>• Modeling Drivers – Pressures – State – Impact - Response (DPSIR) on biodiversity in three European LTSER (Long Term Socio-Ecological Research) sites using an agent based modeling approach.</li> </ul>
2006	Two months research exchange at the Potsdam Institute for Climate Impact Research (PIK), Germany. Review on the role of conflicts in conservation management.

All research was conducted in interdisciplinary and often international teams with English as working language.

### University:

ongoing-	PhD program Social Ecology on the Institute for Social Ecology, Vienna, Austria.
2006	<p>Title: <i>Modeling change in local socio-ecological systems</i></p> <p>The Institute of Social Ecology focuses on interactions between social and natural systems, viewing them as structurally coupled, investigating the co-evolutionary changes that occur to social and natural systems. An interdisciplinary conceptual language and methodological tools that make adequate use of both social and natural science knowledge are key to our work.</p>
2005-	Master (MSc) in Ecology at the University of Vienna
1998	<p>Title of master thesis: <i>Ecology, Rituals and System-Dynamics. An attempt to model the Socio-Ecological System of Trinket Island.</i></p> <p>In order to achieve a systematic understanding of social ecological systems I have combined Cultural Anthropological Classes as well as applied classes on resource use offered from the Viennese University of Agriculture with classes on behavioral human ecology, systems ecology and modeling during my master studies.</p>

### University projects & summer schools:

2007	UFZ Summer School “Ecological-Economic Modeling for Biodiversity Conservation”.
2006/2007	Studium Integrale – Sustainability and public. A course on science communication and media.
2006	ALTER-Net / PIK Summer school: Biodiversity and ecosystem services: Ecological and socio-economic aspects

2005	Young Scientist Summer Program (YSSP) at the International Institute for Applied Systems Analysis (IIASA) in Laxenburg ,Austria. Topic of research: Indicators describing resilience of social-ecological systems
2004	Summer Workshop on Participatory Integrated assessment of Sustainability organized by the LIPHE4 scientific association and the Institute of Social Ecology in Vienna, Austria.
2003/2004	Monitoring Primary Successions in the Danube National Park. Training programm of the Department of Vegetation Ecology Vienna, University Vienna, Austria.
2002	Tropical Biological Association (TBA), Course on Tropical-Ecology in Kibale National Park in Uganda. Project on the ecology of driver ants (Dorylus spp.)
2002	Project on farmers research and knowledge on the,University for Agriculture (BOKU), Vienna, Austria.
2000 - 2001	Students Project “Mountains 2001 - Regional Perspectives” at the Technical University of Vienna. Including two month research in Pakistan & Bhutan.

**School:**

07.06.1997 Graduation at the BORG Murau, Austria  
1988- 1997 High school in Germany and Austria  
1984 -1988 Primary schools in England, Puerto Rico and Germany

**Memberships**

Member of the LTER-Europe Long-Term-Socio-Ecological-Research (LTSER) Expert Panel and Communication Expert Panel.

**Programming & Modelling**

**Software:**

AnyLogic: advanced agent based modeling software  
SIMLE: System Dynamic Modeling Software  
Basic knowledge of ARC-GIS  
Network Analysis (Pajek & Visione)

**Programming languages:**

Basic JAVA  
VBA (visual basic for application)

**Projects**

[www.FCMappers.net](http://www.FCMappers.net)

Fuzzy cognitive mapping (FCM) is a participative soft systems methodology for analyzing and

depicting human perceptions of a given system. Initially developed as a tool in the EU FP6 project ALTER-Net our software is now also used in research and applied projects at the Potsdam Institute for Climate Impact Research, Potsdam, Germany, University of Bucharest, Romania and Greenpeace Mediterranean. We have over 250 users registered at our project-web page. I would like to continue applying and enhancing Fuzzy Cognitive Mapping and our software. It has proven to be a very useful tool in the context of integrated modeling.

## Language

German (mother tongue)  
Fluent written and spoken English

## Publications

### Journal articles:

Submitted 2010	Reckien, D., Wildenberg M. and Bachhofer M. <i>Subjective realities of climate change. How impact networks contribute to deriving socially sensible adaptation options.</i> Submitted to Global Environmental Change
Submitted 2010	Wildenberg, M., M. Bachhofer, M. Adamescu, G. De Blust, R. Diaz-Delgadod, K. Isak, F. Skov, R. Varjopuro. <i>Fuzzy Cognitive Mapping as tool for social-ecological research and environmental management: experience from six European case studies.</i> Submitted to Journal of Environmental Management
2009	Gaube, V., C. Kaiser, M. Wildenberg, H. Adensam, P. Fleissner, J. Kobler, J. Lutz,; A. Schaumberger, J. Schaumberger, B. Smetschka, A. Wolf, A. Richter, H. Haberl. <i>Combining agent-based and stock-flow modelling approaches in a participative analysis of the integrated land system in Reichraming, Austria.</i> Landscape Ecology

### Book chapters:

In Press	Wildenberg M., S.J. Singh, 2009 <i>Integrated modeling and scenario building for the Nicobar Islands in the aftermath of the tsunami.</i> IN: M. Glaser, G. Krause, B. Ratter, M. Welp (eds.) <i>Human/Nature Interactions in the Anthropocene: Potentials of Social-Ecological Systems Analysis.</i>
In Press	Singh, S.J., H. Haberl, V. Gaube, C. M. Grünbühel, P. Lisivieveci, J. Lutz, R. Matthews, M. Mirtl, A. Vadineanu, M. Wildenberg, Forthcoming. <i>Conceptualising Long-term Socio-ecological Research (LTSER): Integrating socio-economic dimensions into long-term ecological research.</i> IN Müller, F.; Schubert, H.; Klotz, S. (eds.) <i>Long-Term Ecological Research, Between Theory and Application.</i> Springer Berlin.
In Press	Kirsten G.Q. Isak, Martin Wildenberg, Flemming Skov. <i>Fuzzy cognitive mapping - a tool for investigating complex issues in conservation management.</i>
2001	“Encounters, Integrated Regional Development in Pakistan Nepal, Bhutan”. Published and edited by: Society Mountains_2001 - Regional Perspectives, 2001 Vienna. <ul style="list-style-type: none"> <li>• Martin Wildenberg and Sandra Wibmer: “Biological Diversity in the</li> </ul>

*Hindu Kusch-Himalaya-Karakoram Range*”.

- Martin Wildenberg, Getrude Elimsteiner-Saxinger and Barbara Marouschek: “*Guidelines - Instrument of Power or Tool of Integration*”
- Martin Wildenberg Fritz Ofner: “*Impressions collected during the Project Mountains 2001 – personal description about the situation of tourism and its impact on culture in Pakistan and Bhutan*”.

### Reports, working papers & proceedings:

2010	Reckien, Diana und Martin Wildenberg; Understanding Climate Change Impacts and Adaptation Options in Developing Countries’ Megacities. Conference Proceedings 1st World Congress on Cities and Adaptation to Climate Change.
2010	Wildenberg, M., M. Bachhofer, M. Adamescu, G. De Blust, R. Diaz-Delgadod, K. Isak, F. Skov, R. Varjopuro. <i>Linking thoughts to flows - Fuzzy cognitive mapping as tool for integrated landscape modelling</i> . Proceedings of the 2010 International Conference on Integrative Landscape Modelling – Linking environmental, social and computer sciences. Symposcience, Cemagref, Cirad, Ifremer, Inra, Montpellier.
2009	Wildenberg, Martin; Mirtl, Michael; Neuner, Angelika; Muhar, Andreas, Schauppenlehner, Thomas.. <i>ILTER Ecosystem Service Initiative for LTSER Region Eisenwurzen Austria</i> . Alter-Net final report
2009	Gaube, Veronika Martin Wildenberg, Angheluta Vadineanu, Ricardo Diaz, Johannes Peterseil, Helmut Haberl. <i>An integrated modelling approach to integrate socioeconomic dynamics with ecosystem processes and biodiversity in Long-Term Socio-Ecological Research (LTSER)</i> . Alter-Net final report.
2009	Isak, Kirsten G.Q., Martin Wildenberg, Mihai Adamescu, Flemming Skov, Geert De Blust and Riku Varjopuro <i>Manual for applying Fuzzy Cognitive Mapping – experiences from ALTER-Net</i> . Alter-Net final report.
2009	Mirtl, M., Boamrane, M., Braat, L., Furman, E., Krauze, K., Frenzel, M., Gaube, V., Groner,E., Hester, A., Klotz, S., Los, W., Mautz, I., Peterseil, J., Richter, A., Schentz, H., Schleidt, K., Schmid, M., Sier, A., Stadler, J., Uhel, R., Wildenberg, M., Zacharias, S.. <i>LTER-Europe Design and Implementation Report – Enabling “Next Generation Ecological Science”: Report on the design and implementation phase of LTER-Europe under ALTER-Net &amp; management plan 2009/2010</i> . Umweltbundesamt (Federal Environment Agency Austria). Vienna. 220 pages. ISBN 978-3-99004-031-7.
2008	Gaube,V., H. Adensam, S. Gingrich, H. Haberl, C. Kaiser, F. Krausmann, J. Lutz, A. Richter, B. Smetschka, M. Wildenberg. <i>LTSER Eisenwurzen - Integrierte Modellierung von gesellschaftlichen und ökosystemaren Stoff- und Materialflüssen</i> . Final Report from the Institute of Social Ecology for the Ministry of Science and Education, proVision Program.
2008	Gaube,V., C., Kaiser, M. Wildenberg, H. Adensam, P. Fleissner J. Kobler, J. Lutz, B. Smetschka, A. Wolf, A. Richter, H. Haberl. <i>Ein integriertes Modell für Reichraming. Partizipative Entwicklung von Szenarien für die Gemeinde Reichraming (Eisenwurzen) mit Hilfe eines agentenbasierten Landnutzungsmodells</i> . Social Ecology Working Papers Nr. 106.
2005	Martin Wildenberg: <i>Ecology Rituals and System Dynamics– An attempt to model the Socio-ecological System of Trinket Island</i> Social Ecology Working Papers Nr.

### Presentations & Posters at Conferences:

2010	<i>“What can local expert knowledge tell us? Testing innovative methods for socio-ecological research in LTSER Eisenwurzen”</i> International Conference of the Austrian Long-Term Ecosystem Research Network - LTER Austria (Poster)
2010	<i>“Measuring Sustainability in the production of fruits and vegetables”</i> . Measuring Europe’s Resource Use: A vital tool in creating a resource efficient EU. Brussels (presentation)
2010	<i>“Fuzzy Cognitive Mapping - a tool for social-ecological research and environmental management: six European case studies”</i> . LandMod – 2010 International Conference on Integrative Landscape Modelling. Montpellier, France. (presentation)
2009	<i>“Waves of Change - Modeling the Nicobars in the after-math of the 2004 Tsunami and beyond”</i> . Royal Geographic Society Annual International Conference: Geography, Knowledge and Society. Manchester UK. (presentation)
2008	<i>“Modeling farmer's decision-making on land use - an integrated view on socio-ecological systems”</i> . International Conference "Studying, Modeling and Sense Making of Planet Earth", University of Aegean, Dept. of Geography, Mytilene, Lesvos, Greece. (presentation)
2008	<i>“Integrated modeling and decision support for post-tsunami Nicobar Islands”</i> . Deutsche Gesellschaft für Humanökologie Symposium: Human/Nature Interactions in the Anthropocene: Potentials of Social-Ecological Systems Analysis. Sommerhausen, Germany.
2007	<i>“Modeling farmer's decision-making on land use : an integrated view on socio-ecological systems”</i> . International Society of Industrial Ecology (ISIE) Toronto, Canada. (presentation)
2007	<i>Modeling for sustainable development on the Central Nicobars in the aftermath of the 2004Tsunami</i> . ESEE (European Society of Ecological Economics) 07 Leipzig (presentation)
2007	<i>“Simulation of Ecological Compatibility of Regional Development (SERD) Integrated Modeling at the LTSER Platform Eisenwurzen”</i> . ALTER-Net Midterm Conference, Mallorca, Spain. (poster)
2006	<i>„Reichraming: Integrierte Modellierung von gesellschaftlichen und ökosystemaren Stoff- und Materialflüssen“</i> . Presentation at the Potsdam Institute of Climate Impact Research. Potsdam, Germany. (presentation)

**Seminars & Lectures:**

<b>March 2010</b>	“FCM = sexy” Lecture at the Institute for Science and Arts, Vienna, Austria.
<b>Septmber 2009</b>	Workshop on Fuzzy cognitive mapping at the forth ALTER-Net Summer school on Biodiversity and Ecosystem Service assessment organized by the Potsdam Institute of Climate Impact Research. Peyresq, France.
<b>January 2008</b>	Invited for a lecture on agent-based-modeling of social-ecological systems at the Leibniz Center for Marine Tropical Ecology in Bremen, Germany.
<b>August 2007</b>	Course at the “Children Summer University” in Steyr, Upper Austria, on biodiversity and landscape modeling.