

Curriculum Vitae

Name de Haan van der Weg, Peter Jan
Dr. sc. nat. ETH, dipl. Phys. ETH, NDK Statistik

Date of birth 16. 11. 1969, in Enschede, Netherlands

Nationality Dutch; applied for Swiss citizenship

Marital status married, 3 children (*2002, *2004, *2007)

Home address Im Zil 1, 8620 Wetzikon, Switzerland
Tel. +41-31-931 28 10, peter@dehaan.ch

Professional address Ernst Basler + Partner AG
Zollikerstr. 65
CH-8702 Zollikon, Switzerland
Tel. +41-44-395 11 14, Fax +41-44-395 12 34
peter.dehaan@ebp.ch

Languages Dutch maternal language
German as good as maternal language
English excellent reading, writing, verbal skills
French good reading, writing, verbal skills



Present position at Ernst Basler + Partner AG, Zollikon (since June 2009)

- > Leader of Climate Change group: www.ebp.ch
- > Main activities Climate Change Mitigation, Climate Change Adaptation, Energy and Climate Policy Design, Communication and Forecasting, Energy and Mobility, Consumer Behavior and Rebound effects
- > Reviewer for EU FP7, IPCC WG3 SSREN, IPCC WG2 SREX

Present position as Lecturer (Dozent) Energy + Mobility at ETH Zurich (since June 2009)

- > Courses: Autumn term: Lecture "**Energy and Mobility**" for Environmental Sciences BSc students in the third year, 3 ECTS credit points, Lecture nr. 701-0963-00.

Research interests

- > Forecasting future energy systems and notably mobility energy systems and technical car evolution
- > Simulation of trend diffusion and global changes in individual attitudes and preferences with regard to the acceptance of resource-efficient technologies;
- > Assessment of direct/indirect effects and efficiency of policy tools, including rebound effects;
- > Multi-agent systems on the interplay between personal preferences and social norm, in order to simulate and assess the possible role of neighbor effects on innovation diffusion;
- > Simulation of mechanisms for providing feedback from consumer behavior to higher regulatory levels;
- > Micro-simulation, using elaborated synthetic populations based on census data, of the car market and car purchase behavior, and the effects of incentive schemes thereon;
- > Communication of environmental impacts to decisions makers and consumers, including life-cycle assessment, eco-labeling, and the role of symbolic values;
- > Modeling emissions and energy demand from transport.

Educational record

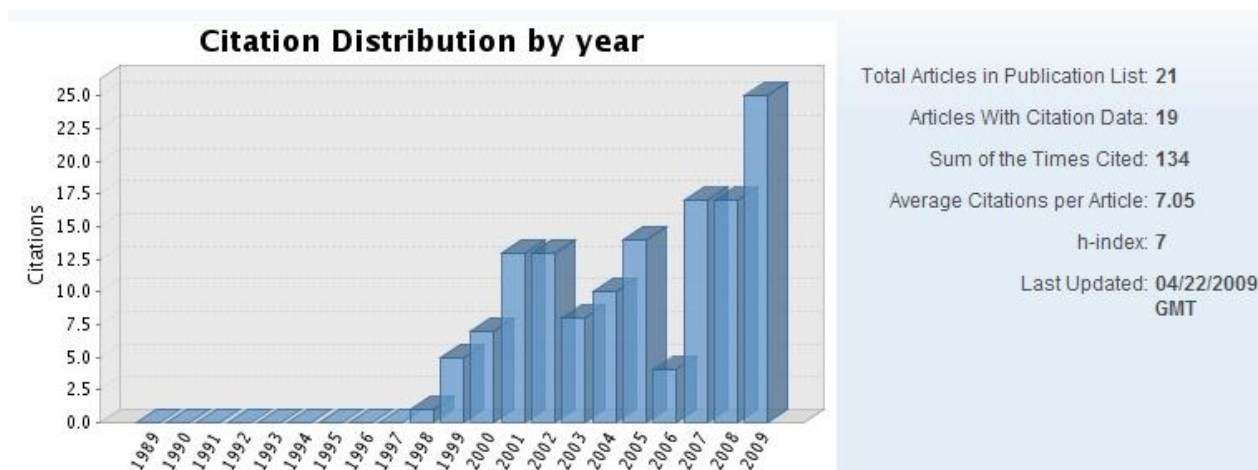
- 1999 Dr.sc.nat. ETH, title of Ph.D. thesis: "studies in air pollution modeling", supervisor Prof. A. Ohmura, co-supervisors Dr. M. W. Rotach, Prof. Dr. S. Hanna (paper-based doctoral thesis)
- 1997 NDK (Nachdiplomkurs) Statistik, Seminar für Statistik, ETH Zurich (2-year/4-term)
- 1994 Dipl. Phys. ETH, experimental physics (specialization: climatology; elective course: business administration), diploma thesis: "A computer model to simulate air pollution diffusion"
- 1989 Maturität Typ C, Math.-Naturwiss. Gymnasium Basel

Professional record

- >2009** **Head of Climate Change Group**, Ernst Basler + Partner AG, Switzerland
Dozent ETH Zürich Lecture Energy + Mobility
- 2003–2009** **Senior Research Associate at ETH**, Institute for Environmental Decisions (Prof. R.W. Scholz)
- > Leader of research group (4 PhD students in total)
 - > Deputy of Prof. Dr. Roland W. Scholz (total professorship: 24 scientists plus backoffice).
 - > Classes on Energy + Mobility, Modeling of Human-Environment Systems, Anthroposphere
 - > Member of admission committee for ETH Master programme Energy science & technology
 - > Project leader for several research projects sponsored by industry and federal government.
 - > Strategy consultant on energy-related issues for automotive, energy and policy actors.
 - > Supervision (as of mid June 2009) of 3 PhD students, 2 BSc theses
- 1998–2003** **Research Associate and project manager, INFRAS** AG, Bern
- > scientific consultant and method development in air dispersion modeling (development of large dispersion simulation software, mostly in Fortran)
 - > projects on air pollution dispersion modeling, road emission modeling, non-road emission, human toxicity, environmental assessments
- 1998** **Visiting Scientist** at Sigma Research Group, Concord MA [today: Lowell MA], USA (2nd stay):
Resulting paper: de Haan, P., and Scire, J. S. (1999).
- 1997** **Visiting Scientist** at Sigma Research Group, Concord MA [today: Lowell MA], USA (1st stay):
Resulting paper: de Haan, P., Scire, J. S., Strimaitis, D. G, and Rotach, M. W. (1999)
- 1994–1999 Research Assistant at ETH, Institute for Atmosphere and Climate (Prof. A. Ohmura)

ResearcherID: B-8239-2008 (<http://www.researcherid.com/rid/B-8239-2008>)

H index: 7 (see below for citation metrics from ISI)



Supervised PhD theses

- > Doctoral thesis by Bastien Girod 2006–2010: “Integration of Rebound Effects into Life-Cycle Analysis”. (role: secondary adviser and project leader; since Dec 2006).
- > Doctoral thesis by Timo Smieszek 2006–2009: “Deriving and Assessing Strategies for Limiting the Spread of Influenza Viruses during a Pandemic Period: Human-Environment Interaction in the Field of Urban Disease Spreading”. (role: secondary adviser; since Oct 2006).
- > Doctoral thesis by Hans-Jörg Althaus 2004–2009: “Impact Assessment Method for Traffic Noise in Generic LCA”. (role: secondary adviser; since Jul 2004).
- > Doctoral thesis by Michel Müller 2004–2009: “Roads to 2050: Multi-Agent Simulated Pathways Towards 2050 of Road Vehicle Characteristics and Usage”. (role: secondary adviser and project leader; Dec 2004–Apr 2009).
- > Doctoral thesis by Anja Peters 2004–2008: “How people buy fuel-efficient cars”. (role: secondary adviser and project leader; Oct 2004–Oct.2008).
- > Doctoral thesis by Michael Spielmann 2001–2005 (doctoral examination: 20 April 2005; thesis entitled “Prospective Life Cycle Assessment for Transport Systems”. (role: secondary adviser; Sep 2003–Apr 2005).

Presentations at scientific conferences

Cleantech 2010, Geneva: Vision 2020: Technological challenges to be faced. Geneva, 2 Jun 2010

IAMF 2010 International Advanced Mobility Forum, Geneva: On the different (urban, long-distance and touristic) simultaneous pathways to market for electric propulsion. Geneva, 10 Mar 2010

IAMF 2009 International Advanced Mobility Forum, Geneva: For what reason did hybrid drivers purchase their car, how much energy do they save in reality, and what are the implications for the marketing of plug-in hybrids? Geneva, 10–12 Mar 2009

Zürich, Switzerland, 2008: Smart individual road transport depends on smart consumers accepting smart cars. Smart Energy Systems Conference, ETH Zürich, Sep 8–10, 2008

Zürich, Switzerland, 2008: Agent-based simulation of emergence through monetary incentives and social pressure of green consumption patterns in car markets. Challenges and Visions in the Social Sciences, ETHZ, Aug 18–23, 2008

Basel, Switzerland, 2008: Creation of norms and values for sustainable car purchases: Incentive schemes promoting fuel-efficiency. 2nd International Sustainability Conference, ISC2008, Aug 21–22, 2008

Ascona, Switzerland, 2007: Reducing CO2 emissions from passenger cars by promoting energy-efficiency. Swiss Transport Research Conference, STRC07, Ascona CH, Sep. 12–14, 2007

Leipzig, Germany, 2007: Reducing CO2 emissions from passenger cars by promoting energy-efficiency: Designing tax-benefit policy schemes, simulating consumer behavior, and forecasting feedback on the car market. Oral presentation at 7th Int. Conf. Europ. Soc. Ecological Economics, EESE07, June 5–8, 2007

Egmond aan Zee, Netherlands, 2006: Importance of rebound effects for eco-efficiency analysis: Insights from macroeconomic theory, and how to cope with them. 2nd Eco-Efficiency Conference, June 28–30, 2007

Ascona, Switzerland, 2006: Multi-agent modeling of the Swiss car market, and its potential reaction upon governmental incentive schemes to promote fuel-efficient new cars. STRC06, Ascona CH, Mar. 15–17, 2006

Washington D.C., USA, 2006: Are rebound effects associated with hybrid Toyota Prius? – Analysis of size and number of vehicles being replaced by Swiss Prius buyers. TRB06, 25 Jan 2006, Washington D.C.

Services to the academic community

- Expert Reviewer for IPCC AR5 (forthcoming)
- Evaluator of FP7 proposals
- Expert Reviewer IPCC WG3 SSREN
- Expert Reviewer IPCC WG2 SREX
- Reviewer for Norwegian Research Council
- Reviewer for Swiss National Science Foundation
- Reviewer for the following scientific journals: Environmental Science & Technology (impact factor 4.04); Atmospheric Environment (impact factor 2.63); Journal of Hazardous Materials (impact factor 2008: 2.337); Quarterly Journal of the Royal Meteorological Society (impact factor 2.045); Energy Policy

(impact factor 1.9); Journal of Applied Meteorology (impact factor 1.736); Environmental Monitoring and Assessment (impact factor 0.60); International Journal Environment and Pollution (impact factor 0.44)

- Member of Admission committee for ETH Zurich's Master of Energy Science and Technology (-2009)