

CURRICULUM VITAE: EVELYNE GROEN

PERSONALIA

Evelyne Annemarie Groen
Date of Birth: 24-04-1985

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EDUCATION

January 2012 – present Wageningen University, PhD Candidate Animal Production Systems Group

My research focus is on assessing uncertainty within stochastic environmental impact models applied to agricultural production systems, aiming to facilitate decision making and to formulate mitigation strategies. The models are based on life cycle assessment (LCA) or input-output analysis. I have experience with e.g. uncertainty propagation (Monte Carlo simulation) and sensitivity analysis. Results include quantification of the effect of correlations on model outcomes and addressing the issue of data quality. My thesis is titled: *An uncertain climate: the value of uncertainty and sensitivity analysis in environmental impact assessment of food*.

Supervisors: Prof. dr. ir. I.J.M. de Boer (Wageningen University) and Dr. E.A.M. Bokkers (Wageningen University), and Dr. R. Heijungs (VU University Amsterdam)

September 2007 – November 2009 University of Amsterdam, Research Master Physics

Master thesis *Cosmic Strings* was on symmetry breaking in the early universe as a possible cause for the formation of planets. Supervisor: Dr. J.P. van der Schaar.

September 2003 – February 2007 University of Amsterdam, Bachelor Bèta-gamma

Bèta-gamma is an interdisciplinary Bachelor's degree programme that encompasses the exact (e.g. mathematics), natural (e.g. biology), and social sciences (e.g. economics). I took a major in Physics, my bachelor thesis was titled: *Wategolven (Water waves)*. Supervisor: Dr. L van den Horn.

TEACHING AND SUPERVISING EXPERIENCE

May and February 2015 Lecturer

Taught a practical session on sensitivity analysis in matrix-based life cycle assessment as part of a course for PhD students: *Environmental impact assessment of livestock systems*, organised by Prof. dr. ir. I.J.M. de Boer. Taught a guest lecture at the Humboldt University *Life cycle assessment and uncertainty* in the course 'Assessment of Agricultural Systems', organised by Prof. dr. rer. agr. habil. Annette Prochnow.

February 2013 – present

Supervision and guiding bachelor and PhD students

I supervised several bachelor students during a first year introduction course, and three bachelor students during their bachelor thesis from the bachelor Animal Science at Wageningen University. Currently I am involved in guiding a PhD student from the Food and Agriculture Organisation (FAO).

January 2008 – July 2008

University of Amsterdam, Teaching assistant

Coordinating contact with students, grading essays and exams for the Bachelor course: *Turning points in Science (Keerpunten in de Natuurwetenschappen)*, organised by Prof. dr. Sander Bais.

January 2006 – June 2006

University of Amsterdam, Teaching assistant

Creating and coordinating the master course: *From Scientific Reasoning to Public Debate: the Case of Sustainable Energy*, organised by: Prof. dr. ir. L.O. Fresco, Prof. dr. R.H. Dijkgraaf and Prof. dr. J.F.A.K. van Benthem.

WORKING EXPERIENCE AND EXPERIENCE WITH RESEARCH PROJECTS

January 2012 – December 2014

Wageningen University, Researcher

I was responsible for the scientific framework behind the calculation of environmental impact of fisheries in the Northeast Atlantic for the FP7 Framework Programme WHITEFISH. From this project we received data for my PhD project.

January 2011 – January 2012

Blonk Milieu Advies, Junior consultant

A consultancy agency in the agri-food sector, where I contributed to data collection and methodology development of environmental impact assessments. I was also seconded to the Dutch Beer Brewery *Heineken*, where I contributed to the carbon footprint assessments of their European breweries.

January 2009 – December 2010

Several research and internship positions

Researcher at *Utrecht University* (FP7 Framework Programme PROSUITE); researcher at *Sym-beyond Research Group* (Ethical Trade Fact Finding); internship at *Shell Global Solutions* concerning a scenario study on renewable energy generation in the Netherlands; internship and researcher at *IVAM Environmental consultancy* (FP7 Framework Programme ENFIRO).

LANGUAGES AND IT SKILLS

Languages Dutch: mother tongue; English: proficient (C1); German: intermediate (B2).
IT Skills Proficient in MatLab, Office, L^AT_EX. Basic knowledge of HTML and linear programming.

PUBLICATIONS AND FORTHCOMING PUBLICATIONS

Groen, E.A., Bokkers, E.A.M., Heijungs, R., de Boer, I.J.M., 2014. Methods for Uncertainty Propagation in Life Cycle Assessment, *Environmental Modelling & Software*, 62, 316 – 325.

Groen, E.A., Bokkers, E.A.M., Heijungs, R., de Boer, I.J.M., *submitted*. Methods for Global Sensitivity Analysis in Life Cycle Assessment.

Groen, E.A., van Zanten, H., Bokkers, E.A.M., Heijungs, R., de Boer, I.J.M., *accepted with revisions*. Sensitivity Analysis of Greenhouse Gas Emissions from a Pork Production Chain.

Groen, E.A., Heijungs, R., *submitted*. Ignoring Correlations in Uncertainty Propagation in Life Cycle Assessment: What is the Risk?

Groen, E.A., Wolf, P., Berg W., Prochnow, A., Bokkers, E.A.M., Heijungs, R., de Boer, I.J.M., *submitted*. Greenhouse Gas Emissions of Milk Production: Which Parameters Matter?

Mu, W., Groen, E.A., van Middelaar, C., Bokkers, E.A.M., de Boer, I.J.M., *submitted*. Benchmarking European Dairy Farms: the Effect of Epistemic Uncertainty on Nutrient Use Efficiency.

Ziegler, F., Groen, E.A., Hornborg, S., Bokkers, E.A.M., Karlsen, K.M., de Boer, I.J.M., 2015. Assessing Broad Life Cycle Impacts of Daily Onboard Decision-making, Annual Strategic Planning, and Fisheries Management in a Northeast Atlantic Trawl Fishery, *The International Journal of Life Cycle Assessment*, First online: 6 June 2015.

Uwizeye, A., Groen, E.A., Gerber, P., Schulte, R., de Boer, I.J.M. Reducing Uncertainty at Minimal Cost: a Method to Identify most Relevant Input Parameters and Prioritise Data Collection Determining Nutrient Use Efficiency in Rwanda (working title).

Groen, E.A., Mu, W., van Middelaar, C., Bokkers, E.A.M., Heijungs, R., de Boer, I.J.M. Benchmarking European Dairy Farms: the Effect of Correlations on Nutrient Use Efficiency (working title).

TALKS AND PRESENTATIONS

Presentation (theatre), 21st SETAC Europe Case Study Symposium, Nisyros, Greece, 2015

Talk, Leibniz-Institut für Agrartechnik Potsdam-Bornim e.V. (ATB), 2015

Presentation (theatre), WIAS Science Day 2015, Wageningen University, 2015

Presentation (theatre), LCAFood conference, United States of America, 2014

Presentation (theatre), LCA Discussion Forum Zürich, 2013