

PERSONAL INFORMATION

Full name: Ulf Martin Persson
Date of birth: October 26, 1976
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**PRESENT EMPLOYMENT**

Assistant Professor
Physical Resource Theory
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SHORT BIO

Martin Persson has a background in environmental science and currently holds an Assistant Professor position at Physical Resource Theory, Chalmers University of Technology. He earned his MSc in Environmental Science with a thesis on whether lax environmental regulations in developing countries cause them to specialize in polluting industries. His PhD thesis was on the economics of climate change and climate policy, with a special focus on non-CO₂ greenhouse gases and tropical deforestation. In addition to the aforementioned topics his current research interests include environmental and socio-economic impacts of a large-scale expansion of biomass. In 2008 Martin, together with co-author Thomas Sterner, was awarded the Myrdal Prize for the best article in the Swedish Economic Society's journal *Ekonomisk Debatt*, for a paper on the economics of climate change in the wake of the Stern Review (a English version of this article was published as 'An Even Sterner Review' in the *Review of Environmental Economics and Policy*). He also assisted the Swedish EPA in the translation of the Stern Review into Swedish, serving as an expert reviewer. In 2010-2011 he spent six months as a visiting researcher at the Tropical Agricultural Research and Higher Education Center (CATIE) in Costa Rica. Martin is an appreciated lecturer at both undergraduate and graduate level in the topics of energy, climate change and climate policy. Martin has also held numbers of lectures to policy makers, business leaders, environmental organizations and the general public on energy, sustainability and climate change.

RESEARCH INTERESTS

Climate policy, with focus on: the economics of climate change; non-CO₂ greenhouse gases and the trade-off between mitigation of these and CO₂; tropical deforestation in future climate policy regimes (REDD+); environmental and socio-economic impacts of a large-scale expansion of bioenergy. Land use policy, with a focus on: deforestation processes, conservation and forestry policies, land use change modeling. Trade and environment.

DEGREES

PhD in Energy and Environment from Chalmers University of Technology, Department of Energy and Environment, November 24, 2008. Thesis title: *Making trade-offs in the greenhouse – Relative price changes, non-CO₂ greenhouse gases and tropical deforestation in climate policy*. Faculty opponent: Prof. John Reilly, Joint Program on the Science and Policy of Global Change, MIT, USA. Supervisor: Prof. Christian Azar.

Ph Licenciate in Energy and Environment from Chalmers University of Technology, June 8, 2006. Thesis title: *Making trade-offs in the greenhouse – Non-CO₂ greenhouse gases and tropical deforestation in climate policy*. Faculty opponent: Dr Brian O'Neill, International Institute for Applied Systems Analysis (IIASA), Austria. Supervisor: Prof. Christian Azar.

MSc in Environmental Science, Göteborg University, 2003. Thesis title: *Industrial Migration in the Chemical Sector: Do Countries with Lax Environmental Regulations Specialize in Polluting Industries?* Supervisor and examiner: Prof. Christian Azar.

EMPLOYMENT HISTORY (ACADEMIC)

Nov 2011 – Visiting scholar, Land Use Change group, Department of Environmental Earth System Science, Stanford University

Apr 2011 – Assistant Professor, Physical Resource Theory, Department of Energy and Environment, Chalmers University of Technology

Oct 2010 – Apr 2011 Visiting researcher at the Environment for Development (Efd) Center for Central America, Tropical Agricultural Research and Higher Education Center (CATIE), Costa Rica

Apr 2010 – Apr 2011 Post Doc, Gothenburg Centre of Globalization and Development, Department of Economics, Göteborg University

Oct 2009 – Mar 2010 Post Doc, Environmental Economics Unit, Department of Economics, Göteborg University

Jan 2009 – Oct 2009 Doctoral position at Physical Resource Theory, Department of Energy and Environment, Chalmers University of Technology

Mar 2003 – Dec 2008 PhD candidate at Physical Resource Theory, Department of Energy and Environment, Chalmers University of Technology

Parental leave

Nov 2011 – Feb 2012 (50%)

Apr 2011 – Oct 2011 (100%)

Aug 2010 – Sep 2010 (50%)

Jan 2009 – June 2009 (100%)

Sep 2008 – Dec 2008 (50%)

RESEARCH PROJECTS

2011-(2015) NORD-STAR (Nordic Centre of Excellence – Nordic Strategic Adaptation Research). Member of NORDSTAR council and WP subproject leader (WP1.4).

2009-2010 'The cost of REDD – implications for international carbon prices'. Göteborg Energi (400 kSEK). Project leader.

2003-2004 'Incitament för att minska avskogningen i Brasilien'. Naturvårdsverket (190 kSEK). Project leader (with Christian Azar).

AWARDS AND PRIZES

The 2008 Myrdal Prize for the article “Konsensus i förändring – klimatekonomi efter Stern”. The Myrdal Prize is awarded every year by Swedbank for best article in the Swedish Economic Society’s journal *Ekonomisk Debatt*.

ARTICLES IN SCIENTIFIC JOURNALS

Peer-reviewed:

- Bryngelsson, D., Åhlen, A., Azar, C., and Persson, U.M., 2012. ‘The effect of food price movements on African households: An investigation of food production and consumption patterns in four African countries’. *International Journal of Agricultural Resources, Governance and Ecology*, in press.
- Mattsson, E., Persson, U.M., and Ostwald, M., 2012. ‘REDD+ readiness in small tropical forest nations: Implications for Sri Lanka’. *Journal of Environmental Management*, 100:29-40.
- Persson, U.M., 2012. ‘Convert or conserve: Pan-tropical modeling of REDD-bioenergy competition’. *Biological Conservation*, 146: 81-88.
- Cederberg, C., Persson, U.M., Neovius, K., Molander, S., and Clift, R., 2011. ‘Carbon footprint of Amazonian beef’. *Environmental Science and Technology*, 45(5): 1773–1779.
- Persson, U.M. and Azar, C., 2010. ‘Preserving the world’s tropical forests: a price on carbon may not do’. *Environmental Science and Technology*, 44(1): 210–215.
- Stern, T. and Persson, U.M., 2008. ‘An Even Sterner review: Introducing Relative Prices into the Discounting Debate’. *Review of Environmental Economics and Policy*, 2(1): 61-76.
- Johansson, D.J.A., Persson, U.M., and Azar, C., 2008. ‘Uncertainty and Learning: Implications for the Trade-off between Short-lived and Long-lived Greenhouse Gases’. *Climatic Change*, 88(3-4): 293-309.
- Persson, U.M. and Azar, C., 2007. ‘Tropical deforestation in a future international climate policy regime—lessons from the Brazilian Amazon’. *Mitigation and Adaptation Strategies for Global Change*, 12(7): 1277-1304.
- Johansson, D.J.A., U.M. Persson and C. Azar, 2006. ‘The cost of using Global Warming Potentials - Analysing the trade-off between CO₂, CH₄ and N₂O’. *Climatic Change*, 77(3-4).
- M. Grubb, C. Azar and U.M. Persson, 2005. ‘Allowance allocation in the European emissions trading system: a commentary’. *Climate Policy*, 5(1).

In submission:

Persson, U.M., and Alpízar, F., 2011. ‘Conditional cash transfers (CCTs) and Payments for environmental services (PES) – a conceptual framework for explaining and judging differences in outcomes’. Submitted to *World Development*.

Not peer-reviewed:

Persson, U.M. and Sterner, T., 2008. ‘Konsensus i förändring – klimatekonomi efter Stern’. *Ekonomisk Debatt* 36: 65-81. Available at <http://www.ne.su.se/ed/pdf/36-4-mpts.pdf>.

- Sterner, T. and Persson, U.M., 2008. 'Comments on Simon Dietz and Nicholas Stern's Why Economic Analysis Supports Strong Action on Climate Change: A Response to the Stern Review's Critics'. *Review of Environmental Economics and Policy*, 2(2): 310-312.
- Azar, C. and Persson, U.M., 2005. 'Fighting future fires with fairness'. *Nature*, 433(7021), pp. 13.

Book reviews:

- Persson, U.M., 2006. *Tropical Forests: Paths of Destruction and Regeneration in the Late 20th Century*, T.K. Rudel, 2005. *Ambio* 36: 364.
- Persson, U.M., 2006. *From Resource Scarcity to Ecological Security*, D. Pirages and K. Cousins (eds.), 2005. *Ecological Economics* 62: 757-761.

THESES

- Persson, U.M., 2008. "Making Trade-Offs in the Greenhouse: Relative Price Changes, Non-CO₂ Greenhouse Gases and Tropical Deforestation in Climate Policy". PhD, Chalmers University of Technology, Göteborg, Sweden.
- Persson, U.M., 2006. "Making Trade-Offs in the Greenhouse: Non-CO₂ Greenhouse Gases and Tropical Deforestation in Climate Policy". Licentiate thesis, Chalmers University of Technology, Göteborg, Sweden.
- Persson, U.M., 2003. "Industrial Migration in the Chemical Sector: Do Countries with Lax Environmental Regulations Specialize in Polluting Industries?". MSc Thesis, Göteborg University.

CONFERENCE PROCEEDINGS

- Sterner, T. and Persson, U.M., 2008. 'An Even Sterner review: Introducing Relative Prices into the Discounting Debate'. *European Association of Environmental and Resource Economists 16th Annual Conference*, Göteborg, Sweden.
- Johansson, D.J.A. and Persson, U.M., 2006. 'Methane in Climate Policy', Proceedings of the First Regional Symposium on Carbon Management – Carbon Management Challenges and Opportunities for the Petroleum Industry, Dhahran, Saudi Arabia.
- Johansson, D.J.A. and Persson, U.M., 2005. 'Non-CO₂ Greenhouse Gases in National Climate Policies: A Reassessment of the Comprehensive Approach'. 4th International Symposium on Non-CO₂ Greenhouse Gases (NGCC-4), Utrecht, The Netherlands.
- Johansson, D.J.A., Persson, U.M. and Azar, C., 2005. 'Trade-off between CO₂ and CH₄ under conditions of uncertainty, learning and inertia'. 4th International Symposium on Non-CO₂ Greenhouse Gases (NGCC-4), Utrecht, The Netherlands.
- Johansson, D.J.A., Persson, U.M. and Azar, C., 2004. 'The economic trade-off between CO₂, CH₄ and N₂O abatement - an economic assessment of using static GWP's'. *Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies (GHGT7)*, Vancouver, Canada.
- Persson, U.M., Johansson, D.J.A. and Azar, C., 2003. 'Integrated assessment of the economic trade-off between CO₂, CH₄ and N₂O abatement – Efficiency losses from using static

GWP's'. *Proceedings of the 3rd International Methane and Nitrous Oxide Mitigation Conference*, Beijing, China

Persson, M., 2003. 'Industrial Migration in the Chemical Sector: Do Countries with Lax Environmental Regulations Specialize in Polluting Industries?'. *European Association of Environmental and Resource Economists 12th Annual Conference*, Bilbao, Spain

WORKING / DISCUSSION PAPERS

Persson, U.M. and Alpízar, F., 2011. 'Conditional Cash Transfers and Payments for Environmental Services: A Conceptual Framework for Explaining and Judging Differences in Outcomes'. Environment for Development (EfD) Discussion Paper Series, EfD DP 11-06. <http://www.rff.org/RFF/Documents/EfD-DP-11-06.pdf>

Quiroga, M., Sterner, T. and Persson, U.M., 2007. 'Have Countries with Lax Environmental Regulations a Comparative Advantage in Polluting Industries?'. RFF Discussion Paper 07-08, Resources for the Future, Washington, D.C., USA. Available at <http://www.rff.org/documents/RFF-DP-07-08.pdf>.

Sterner, T. and Persson, U.M., 2007. 'An Even Sterner Review: Introducing Relative Prices into the Discounting Debate'. RFF Discussion Paper 07-37, Resources for the Future, Washington, D.C., USA. Available at <http://www.rff.org/Documents/RFF-DP-07-37.pdf>

REPORTS

Coria, J., Hennlock, M., Löfgren, Å., Persson, U.M., Söderholm, P., Sterner, T., Wråke, M., 2010. *The Progress of GHG Markets: Opportunities and Risks*. Gothenburg Environmental Economics Report (commissioned by the Swedish EPA).

Persson, U.M. and Azar, C., 2004. *Brazil Beyond Kyoto*. Report commissioned by the Swedish Environmental Protection Agency (Naturvårdsverket), Stockholm, Sweden.

POPULAR SCIENCE AND OPINION PIECES

Persson, U.M., 2008. 'Myten om miljöflykten'. Dagens ETC, nr 3, 18 januari, 2008. Available at <http://www.etc.se/ledare/myten-om-milj%C3%B6flykten>.

Persson, U.M. and Sterner, T., 2007. "En kommentar till Stern-rapporten". In "Sternrapporten – en genomgripande analys av klimatförändringens ekonomi", Rapport 5711, Naturvårdsverket, Stockholm, Sweden. Available at <http://www.naturvardsverket.se/Documents/publikationer/620-5711-1.pdf>.

Persson, U.M., 2007. 'Kan klimatfrågan rädda Amazonas? ...och Amazonas klimatet?'. Miljötidningen, nr 1, 2007.

Hedenus, F. and Persson, M., 2006. "Okunnigt att avfärda klimatforskning". Aftonbladet Debatt, 2006-08-26 (<http://www.aftonbladet.se/vss/debatt/story/0,2789,877117,00.html>)

Azar, C., Hedenus, F., Johansson, D. and Persson, M., 2003. "Utsläppshandel räcker inte" (Permit trading is not enough). *Dagens Industri*, 2003-09-25.

SUBMISSIONS TO UNFCCC

Ostwald, M., Palm, M., Mattsson, E., Persson M., Berndes, G., Amatayakul, W. 'Views on the implication of possibly changing the limit established for small-scale afforestation and reforestation clean development mechanism project activities'. Submission to the UNFCCC Secretariat based upon call for submission, 19 February 2007.

Ostwald, M., Palm, M., Berndes, G., Azar, C., Persson, M. 'Views on issues relating to reducing emission from deforestation in developing countries – approaches to stimulate action'. Submission to the UNFCCC Secretariat based upon call for submission, 30 March 2006.

REVIEW COMMISSIONS

Journals: Global Environmental Change, Biomass & Bioenergy, Environmental Research Letters, Forest Policy and Economics.

Policy reviews: EU Task force on Modeling and Assessment (ETMA) Analytical Paper on Contributions of Developing Countries in the issues of reducing emissions from avoided deforestation, February 2009.

Other: Review of the translation of (parts of) *The Stern Review on the Economics of Climate Change* to Swedish. Commissioned by the Swedish Environmental Protection Agency (Naturvårdsverket).

PHD SUPERVISION

2012-03-30	Eskil Mattson, Göteborgs Universitet	<i>Forest and Land Use Mitigation and Adaptation in Sri Lanka: Aspects in the Light of International Climate Change Policies</i>	Deputy supervisor (main supervisor: Madelene Ostwald)
Ongoing	Sabine Henders, Linköpings Universitet	<i>REDD+ and leakage</i>	Deputy supervisor (main supervisor: Madelene Ostwald)

TEACHING

2010 Climate and ecosystem change (S10_ClimEcoC), Gothenburg University (PhD course), responsible for the 'climate' part of the course (the other half taught by the Beijer Institute, Stockholm) – full course development (designing syllabus, selecting course literature, developing computer labs and calculation exercises, constructing exams).

2007-2009 Klimat som vetenskap och politik (FMIN05), Lunds University (undergraduate). Guest lecturer on the economics of climate change (2-4 hours).

2006-2007 Miljö- och energiteknik (ENM030), Chalmers University of Technology. Lecture (2 hours) and course development.

2005-2009 Sustainable development (FFR160), Chalmers University of Technology (graduate). Lecturer (2-4 hours).

2004-2008 Sustainable energy futures (FFR170), Chalmers University of Technology (graduate/undergraduate). Course development, course secretary, lecturer (2-6 hours), teaching assistance (8-12 hours), examination, etc..

2004-2009 Världens eko (MO3002), Stockholm University (undergraduate). Guest lecture on energy and climate change (3 hours).

2003-2009 Internationella miljöavtal (International environmental agreements), Göteborg University (graduate). Guest lecture on the UNFCCC & the Kyoto protocol (3 hours).

- 2003-2007 Flervetenskaplig fallstudie av miljöproblem (SMM130), Göteborg University (undergraduate). Guest lecture on the science of climate change (2-3 hours).
- 2003-2006 Bärkraftig resursanvändning (FFR101), Chalmers University of Technology (undergraduate). Lectures (2 hours), seminar assistant (30 hours), course development.

SUPERVISED THESES AND PROJECTS

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| 2010 | Patricia Frederighi | <i>The issue of permanence in REDD+ projects: theoretical analysis and case study on managerial approaches to reduce the risks and liability strategies to deal with impermanence</i> | Masters' Thesis – co-supervised with Lena Gipperth (Law, GU) |
| 2010 | Jörgen Pettersson | <i>Payments for environmental services in Colombia: Measuring opportunity costs and evaluating trade-offs</i> | Masters' Thesis project (Minor Field Study, MFS) – supervisor and examiner |
| 2008 | David Bryngelsson and Anders Åhlen | <i>Do rising food prices benefit or harm rural farmers in sub-Saharan Africa? An investigation of production and consumption patterns in four African countries</i> | Project report supervised together with Christian Azar |
| 2007 | Valerie Savoyat | <i>Socio-economic consequences of large-scale expansion of soybean in Brazil</i> | Masters' thesis (30 p) – supervised together with Daniel Johansson; examiner Christian Azar, Chalmers |
| 2005 | Jaime Goyanes | <i>Investment Decisions in the EU Power Industry under Uncertainty in Future Climate Policy</i> | Masters' thesis (30 p) – supervised together with Daniel Johansson; examiner Christian Azar, Chalmers |
| 2004 | Terese Olsson | <i>Elcertifikat: En analys av elcertifikatsystemet ur aktör- och konsument synpunkt</i> | Masters' thesis (30 p) – supervised together with Frances Sprei; examiner Göran Dave, GU |
| 2004 | Kajsa Sundsten | <i>Elcertifikat: En analys ur marknads- och miljöperspektiv</i> | Masters' thesis (30 p) – supervised together with Frances Sprei; examiner Göran Dave, GU. |

PRESENTATIONS & PUBLIC LECTURES

- 2010-09-28 Stockholm Presentation på Stora Enso-seminariet 'Forest plantations: Global outlook and development issues', Johannebergs slott.
- 2010-06-15 Stockholm Presentation om REDD för klimatenheten på Naturvårdsverket.
- 2010-03-17 Göteborg Presentation om REDD för livsmedelsindustrins klimätverk, SIK.
- 2010-03-03 Lund Offentlig föreläsning om markanvändning och markkonflikter i föreläsningsserie anordnad av Lunds Kommun, Naturskyddsföreningen, m fl.
- 2010-02-03 Uddevalla Föredrag om 'Vad händer i Köpenhamn... och varför' på Energisession 2010
- 2009-12-16 Göteborg Föredrag om 'Vad händer i Köpenhamn... och varför' för Närlingslivets Miljöchefer & nätverket GAME
- 2009-12-07 Göteborg Presentation på Göteborg Energis forskningsdag, Elyseum.
- 2009-11-11 Göteborg Föredrag om "Skogens roll i klimatfrågan" på Ekocentrum (tillsammans med Madelene Ostwald)
- 2009-10-15 Göteborg 'Discussant' på presentation av Världsbankens World Development Report 2010, Handelshögskolan
- 2009-05-13 Stockholm Presentation vid Miljöförbundet Jordens Vänners seminarium 'Klimat och tropisk skog ur ett Nord/Sydperspektiv'
- 2009-01-15 Stockholm Presentation på KSLA-seminarium om mat och klimatpåverkan
- 2008-12-08 Göteborg Föredrag för Färnebo Folkhögskolas praktikantkurs
- 2008-04-25 Varberg Föredrag på Den Globala Skolans *Omvärldsbildningsdag*
- 2008-04-02 Göteborg Föredrag och deltagande i paneldebatt på *Världens mötesplats*, School of Global Studies, Göteborgs Universitet
- 2008-03-26 Göteborg Föredrag på Stadsbiblioteket i en föreläsningsserie arrangerad av Ingenjörer och Naturvetare utan Gränser
- 2008-01-26 Göteborg Föredrag på *Global Day of Action*, Världskulturmuseet
- 2008-01-22 Göteborg Föredrag för cheferna i Stadsdelsförvaltningen Centrum, Göteborg Stad
- 2007-10-18 Göteborg Föredragshållare på seminariet *Lära för hållbar utveckling*, arrangerat av Göteborgs Agenda 21-kontor för lärare i Västra Götalandsregionen
- 2007-09-15 Göteborg Arrangör & föredragshållare på seminariet *En behaglig framtid?* om klimatfrågan – arrangerat tillsammans med Museion, Göteborgs Universitet, och Världskulturmuseet.
- 2007-09-10 Göteborg Föredrag & deltagande i paneldebatt på seminariet *Det hettar till – Klimat, säkerhet och konflikt*. Arrangörer: Green Cross Sweden, ABF Göteborg & Cogito.

2007-08-29	Göteborg	Föredrag på Ekocentrum. Arrangörer: Studieförbundet i Göteborg, Ekocentrum och Miljöförbundet Jordens Vänner
2007-08-28	Sälen	Föredrag på SkiStars säsongskick-off.
2007-08-03	Näsåker	Föredrag på Miljöpartiets Internationella sommarläger.
2007-06-07	Stockholm	Öppet seminarium på tankesmedjan Agora.
2007-05-22	Stockholm	Föredrag på Naturvårdsverkets öppna seminarium om IPCC:s tredje delrapport.
2007-05-21	Stockholm	Föreläsning på internt seminarium på Naturvårdsverket om Stern-rapporten.
2007-05-08	Göteborg	Föredrag för Folkpartiet Göteborg.
2007-05-02	Vänersborg	Föredrag på Frida-skolan (gymnasium & högskola).
2007-04-01	Göteborg	Föredrag i Göteborgs Universitets populärvetenskapliga föreläsningsserie.
2007-03-29	Stockholm	Föredrag & deltagande i paneldebatt på Nationalekonomiska Föreningens möte.
2007-03-27	Göteborg	Föredrag för Volvo IT på Världskulturmuseet.
Ht 2006	Göteborg	Arrangör av en seminarieserie om Sveriges Politik för global utveckling under tre lördagar, på temat vatten-, mat- och energiförsörjning, med internationellt inbjudna gäster. Arrangerat tillsammans med Museion, Göteborgs Universitet, Världskulturmuseet och Utrikesdepartementet.
2006-11-20	Göteborg	Föreläsning på The International Highschool of the Gothenburg Region (IHGR).
2006-09-27	Göteborg	Presentation & deltagande i paneldebatt på seminariet <i>Är framtiden hotad? Krig, olja, klimat</i> . Arrangörer: Green Cross Sweden, Fredskoalitionen, ABF Göteborg.
2006-09-07	Göteborg	Arrangör av & föredragshållare på seminarium om Lärande för Hållbar Utveckling för högskole- & gymnasielärare i Västra Götaland. Del av utbildningsserie arrangerad av Global Forum, Global Skolan, Göteborgs Universitet, m.fl.
2006-05-17	Göteborg	Föredrag på Göteborgs Vetenskapsfestival.
2006-03-09	Mölnlycke	Föredrag på Mölnlycke Kulturhus.
2005-12-12	Göteborg	Föredrag på Färnebo folkhögskolas filial.
2005-10-07	Göteborg	Föredrag för GAME (Göteborg Action for Management of the Environment) & Näringslivets miljöchefer
2004-12-01	Stockholm	Presentation & deltagande i diskussion <i>FRAMSTEG – Forskarhearing om tillväxt och miljö</i> , anordnad av Forum för energi och tillväxt
2004-10-19	Göteborg	Föredrag på SIK – Institutet för Livsmedel & Bioteknik AB.
2004-06-08	Göteborg	Föredrag på Universeum.
2004-05-11	Göteborg	Föredrag på Vetenskapsfestivalen

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| 2003-12-05 | Göteborg | Föredrag vid Chalmers-seniorernas årsmöte. |
| 2003-10-30 | Härnösand | Föredrag på energiseminarium. |
| 2003-10-29 | Stockholm | Presentation & deltagande i diskussion under Miljöpartiets klimatdag, Riksdagens infocentrum |
| 2003-10-12 | Lysekil | Föredrag på Lysekils kommuns klimatdagar. |