

## Curriculum vitae Reyer Gerlagh

Name: Reyer Gerlagh  
Position: Professor of Environmental Economics  
Year of birth: 1969  
Place of birth: Brokopondo (Surinam)  
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Affiliation: Tilburg University  
Location: Koopmans Building



## Short biography

In 1999 Reyer Gerlagh received his PhD in economics. He won the "Vernieuwingsimpuls", a prestigious 5-year scholarship (2000-2005) of €650,000 by the Netherlands Organisation for Scientific Research (NWO). He visited Oslo, January-June 2006, by invitation from the Norwegian Academy of Science and Letters to work at the Centre of Advanced Studies on the interaction between environmental policy and technology. From 2006 to 2009, he held a chair in Environmental Economics at the Economics Department, School of Social Sciences, University of Manchester, UK. Since 2009, he is Professor of Economics at Tilburg University. From 2011 to 2014, he was coordinating lead author of the fifth assessment report of the IPCC, WGIII. He has held various associate editorships (incl. ERE, Energy Economics), and is now Head of the Economics Department, jointly with Jan Boone, in Tilburg.

## Research areas

Climate-macro economics, Fossil fuels markets and climate, Concepts of sustainability, Policy-induced technological change.

## Main publications

- Gerlagh R. and M. Liski (2017), Consistent Climate Policies, forthcoming in for *JEEA*. WP version: Carbon prices for the next thousand years
- Gerlagh R. and M. Liski (2017), Carbon prices for the next hundred years, in *the Economic Journal*, doi:10.1111/eoj.12436.
- Victor, D.G., R. Gerlagh, and G. Baiocchi (2014), Getting serious about categorizing countries, *Science* 345: 34-36.
- Gerlagh R. and M. Liski (2011), Strategic Resource Dependence. *Journal of Economic Theory*: 146:699-727.
- Papyrakis, E. and R. Gerlagh(2007), "Resource-Abundance and Economic Growth in the U.S.", *European Economic Review*, 51:1011-1039.
- Gerlagh R. and M.A. Keyzer (2003) "Efficiency of conservationist measures; an optimist viewpoint", *Journal of Environmental Economics and Management*, 46:310-333.
- Gerlagh R. and B.C.C. van der Zwaan (2002) "Long-term substitutability between environmental and man-made goods", *Journal of Environmental Economics and Management* 44:329-345.
- Gerlagh R. and M.A. Keyzer (2001) "Sustainability and the intergenerational distribution of natural resource entitlements" *Journal of Public Economics* 79(2): 315-341

## Academic metrics

52 publications in ISI Web of Science (retrieved 11 Jan 2017)

1042 citations (excl self-) in ISI Web of Science internal database of international refereed journals (retrieved 11 Jan 2017)

h-index = 21 in ISI Web of Science internal database of international refereed journals (retrieved 11 Jan 2017)

h-index = 34 in Scholar Google (retrieved 11 Jan 2017)

## Teaching Experience

First, second, and third-year undergraduate macroeconomics (introduction, growth and institutions), undergraduate first and second year microeconomics (introduction, IO), undergraduate climate change economics, research masters macroeconomics, research masters environmental economics, various summer schools (Oslo, Venice, Bogota)

## Management Experience

2015-	Head of Economics Department (joint with Jan Boone), Tilburg University, The Netherlands
2010-2014	Coordinating Lead Author Ch5, WG III, IPCC AR5
2005-2006	Deputy department head Economics and Technology, IVM
2000-2005	Programme Manager International Environmental Economics, IVM
1999-2000	Deputy Programme Manager Modelling and Economic Analysis, IVM

## Academic Training

1988-1992	Masters degree Econometrics cum laude, Vrije Universiteit Amsterdam
1988-1993	Masters degree Mathematics cum laude, Vrije Universiteit Amsterdam
1993-1998:	Doctoral degree (PhD) Economics, Vrije Universiteit Amsterdam (supervisors: Prof. dr. M.A. Keyzer and Prof. dr. H. Verbruggen)

## Professional employment history

1990-1992	Student-assistent of Prof. dr. G. van der Laan, Economics department, Vrije Universiteit Amsterdam.
1993-2000	Junior Researcher, Institute for Environmental Studies (IVM), Vrije Universiteit Amsterdam.
2000-2006	Associate Professor Environmental Economics, IVM
2006-2009	Professor of Environmental Economics, University of Manchester, Economics, UK
2009-	Professor of Environmental Economics, Tilburg University, Economics, The Netherlands

## Prizes and Grants

1986	6th Prize Dutch Mathematics Olympiad
1987	Bronze Medal International Mathematics Olympiad, Cuba
1987	1st Prize Dutch Physics Olympiad
1988	Silver Medal International Physics Olympiad, Austria
2001-2005	Vernieuwingsimpuls; 5 year grant for innovative research (650,000 EUR)

- 2003 The Energy Journal's Best Paper Award, jointly with Onno Kuik for paper on "Trade Liberalisation and Carbon Leakage"
- 2006 Research fellow at the Centre for Advanced Study, Oslo, of the Norwegian Academy of Science and Letters. Research group: "Environmental Economics: Policy Instruments, Technology Development, and International Cooperation".
- 2007 SENSE PhD Award (€ 1.000) for Elissaios Papyrakis, PhD student I supervised

## Invited academic presentations (keynotes, panels, seminars)

- Theory and Environment Workshop: "Cake eating with private information", 3 March 2016, University of Oslo
- Value Added in Motion Seminar: "CO2 embedded in trade: trends and drivers", 14 May 2015, University of Milan
- Potsdam Institute for Climate Impact Research Seminar: "A simple formula predicts the SCC remarkably well", Oct 2013, Potsdam
- Toulouse Tiger Forum: "Carbon prices for the next thousand years", 5-7 June 2013, Toulouse
- Grantham Research Institute (LSE) Seminar: "A simple formula predicts the SCC remarkably well", 13 March 2013, London
- Invited panellist at RIO+20 session at annual EAERE congress, 29 June 2012, Prague
- Invited panellist at Discussion Round Table: Can We Afford Green Policies During an Economic Downturn?, 27 June 2012, Prague
- Oxcarre Seminar Series (Oxford University), "Carbon prices for the next thousand years", 14 Feb 2012
- Oslo University Seminar Series, "Public investment as commitment", 19 September 2011.
- Toulouse University Economics Department Seminar Series, "Public investment as commitment", 11 April 2011, Toulouse
- Paris Environmental and Energy Economics Seminar, "Energy abundance and industry location", 17 March 2011, Paris
- 5th Energy Economics Policy Seminar on Innovation and Environmental Policy, The Hague: "Scarcity Creates Innovations; Uncertainty Breeds Evasions", 17 June 2010.
- FEEM-IEFE seminar (Bocconi University), Milan: "Energy Abundance and Industry Location", 10 June, 2010.
- Keynote speech at CESifo conference on Energy and Climate Economics, Munich, 16-17 October 2009: "Too much oil"
- Invited chair at special session on discounting, EAERE annual conference, Amsterdam, 24-27 June 2009
- Keynote speech at St Andrews Economic Forum, 3 May 2008: "When oil crisis meets climate change"
- Seminar Series Economics Department University of Birmingham. "Strategic Oil Dependence", 12 Feb 2008

## Popular presentations

- Masterclass Energy Crisis, presentation for student association at Tilburg University, 26 Feb 2016
- "A simple formula for the social costs of carbon", presentation for Netwerk Groene Groei, The Hague, 8 Dec 2015
- "D-day for the climate", presentation for discussion meeting organized by Tilburg Sustainability Center, Tilburg, 3 Dec 2015
- "Klimaatbeleid mag wat kosten", presentation for Groen-Links, provinciale staten Noord Brabant, Den Bosch, 28 Nov 2015
- "The Venus Project", presentation for Dutch United Nations Student Association, Amsterdam, 24 Nov 2015
- Plenary discussion on local climate policy, 100th jubilee Milieucafe, Tilburg, 5 Nov 2014

- "Heeft klimaatbeleid voor gemeenten nog zin?", presentation for municipality civil servants, Eindhoven, 24 Oct 2014
- "Financing Sustainable Development", Model United Nations, Tilburg, 3 May 2014
- "Too much oil", Presentation for Masterclass "I am sustainable", Tilburg, 7 Oct 2013
- Lab4energy, "Climate Change", introductory first lecture in web-course for secondary school students, 19 March 2013, Internet
- L.S.V. Minerva (students' corps), "Lekker Warm?" (in Dutch), 26 June 2012, Leiden
- Energie Event Brabant, "De Toekomstige Brabantse Energievoorziening" (in Dutch), 30 May 2012, 'sHertogenbosch
- Jonge Democraten (regional youth department of political party D66), "De Toekomstige Nederlandse Energievoorziening" (in Dutch), 23 April 2012, Breda
- Happy Chaos, Keynote speech (in Dutch): "Voorbij de crisis", Momentum, 15 February 2012, Amsterdam
- Theresialyceum (secondary school), "Duurzame economische groei, wat is dat?" (in Dutch), 8 Feb 2012, Tilburg
- Econometrics Assets (alumni corps), "Climate change policy as commitment", 8 Nov 2011, Tilburg
- Inaugural address (in Dutch), "Waar eindigt duurzame groei?", 26 november 2010, Tilburg
- Kinderuniversiteit, "Lekker warm" (in Dutch), presentation for primary school children, 8 November 2010, Tilburg University.

## Miscellaneous

- 2003 Guest editor (jointly with C. Carraro and B.C.C. van der Zwaan) for Special issue on "Economic Modelling of Environmental Policy and Endogenous Technological Change", Resource and Energy Economics 25, Issue 1.
- 2004-present Associate Editor Energy Economics
- 2005 Co-promotor O. Kuik (senior researcher) on Climate change policies, international trade, and carbon leakage (pdf file, 961k), October 21, 2005.
- 2006 Co-promotor E. Papyrakis on The Political Economy of King Midas: Resource Abundance and Economic Growth (pdf file, 1500kb), 15 June 2006 (SENSE PhD Award 2007, € 1.000)
- 2006 Invited guest lecturer at the EAERE summer school, Computable General Equilibrium Modeling in Environmental and Resource Economics, 25-30 June 2006, Venice.
- 2006-2009 Member Scientific Board TransSust.Scan project (EU)
- 2007-2009 Member of Editorial Board Journal of Environmental Economics and Management.
- 2007-2011 Associate Editor Environment and Resource Economics
- 2008 Promotor L. Pellegrini on Corruption, Development and the Environment (most-recent version: pdf-file, 660kb)
- 2008 Economic and Social Research Council Climate Change Fellowship Panel member
- 2008 Sustainable Consumption Institute Theme Leader<>
- 2010 Coordinator Benelux Mathematical Olympiad
- 2011 Coordinator EAERE summer school, jointly with Matti Liski on Developments in Resources Economics
- 2011 Coordinator International Mathematical Olympiad, Amsterdam
- 2012 Principal lecturer Oslo Summer School in Comparative Social Science Studies, 23-27 July.
- 2013-2014 Extended Core Writing Team (EWT) member of the Synthesis Report (SYR) of the IPCC Fifth Assessment Report (AR5).
- 2014 Promotor T. Michielsen
- 2014 Promotor I. van den Bijgaart
- 2016 Promotor A. Motavasseli.

- 2017 Guest lecturer at the Rosario University Summer school, Climate and Macroeconomics, 2017, Bogota.
- 2018 Invited guest lecturer at the EAERE summer school, Sustainability and Climate Change, 2018, Venice.

## Papers in Progress

- Generous sustainability. CESifo Working Paper series 5092
- Cake eating with private information, jointly with Matti Liski. CESifo Working paper series 5050
- Climate policy commitment devices, jointly with Sebastian Dengler, Stefan T. Trautmann, Gijs van de Kuilen.
- Modeling the Emissions-Income Relationship Using Long-Run Growth Rates, jointly with David Stern and Paul J Burke.
- CO2 embedded in trade: Trends and fossil fuel drivers, jointly with Sylvain Weber, Nicole Mathys, Daniel Moran.

## Other journal publications

- Gerlagh, R., van den Bijgaart, I., H. Nijland, and T. Michielsen (2016), Fiscal policy and CO2 emissions of new passenger cars in the EU, forthcoming in *Environmental and Resource Economics*.
- van den Bijgaart, I., R. Gerlagh and M. Liski (2016) A simple formula for the Social Cost of Carbon, *Journal of Environmental Economics and Management* 77:75-94.
- van der Zwaan, B.C.C., and R. Gerlagh (2016) Offshore CCS and ocean acidification: a global long-term probabilistic cost-benefit analysis of climate change mitigation, *Climatic Change* 137:157-170.
- Gerlagh, R. and T.O. Michielsen (2015), Moving targets - cost-effective climate policy under scientific uncertainty, *Climatic Change* 132:519-529.
- Gerlagh, R., N.A. Mathys, and T.O. Michielsen (2015), Energy abundance, trade and industry specialization", *The Energy Journal* 37:27-37.
- Gerlagh, R. and O. Kuik (2014), Spill or leak? Carbon leakage with international technology spillovers: A CGE analysis., *Energy Economics* 45:381-388.
- Gerlagh, R. S. Kverndokk, and K.E. Rosendahl (2014), The optimal time path of clean energy r&d policy when patents have finite lifetime, *J. of Environmental Economics and Management* 67: 2-19.
- Gerlagh, R. (2014), Calculating the Social Costs of Carbon without knowing preferences Comment on "A rapid assessment model for understanding the social cost of carbon", *Climate Change Economics* 5:1450004 [7 pages] DOI: 10.1142/S2010007814500043.
- Gerlagh R. and T. Sterner (2013), Rio+20: Looking Back at 20 Years of Environmental and Resource Economics. *Environmental and Resource Economics* 54: 155-159.
- Gerlagh, R. and T.O. Michielsen (2012), "The Green Paradox", entry 158 in "Encyclopedia of Energy, Natural Resource, and Environmental Economics", edited by De Zeeuw et al., forthcoming by Elseviers.
- Van Heerden, J.H., R. Tol, R. Gerlagh, J.N. Blignaut, S. Hess, M. Horridge, M. Mabugu, R. Mabugu, M. de Wit and T. Letsoalo (2012), "Double Dividends of Additional Water Charges in South Africa", pages 254-267 in "Nature's Wealth", edited by Pieter van Beukering, forthcoming by Cambridge University Press, UK.
- Gerlagh R. and B.C.C. van der Zwaan (2012), Evaluating Uncertain CO2 Abatement over the Very Long Term. *Environmental Modeling and Assessment* 17: 137-148.
- Gerlagh R. (2011), Too Much Oil. *CESifo Economic Studies* 57: 79-102.
- Mulatu A., R. Gerlagh, D. Rigby, and A. Wossink (2010), Environmental Regulation and Industry Location in Europe, *Environmental and Resource Economics* 45: 459-479.
- Gerlagh R., S. Kverndokk and K.E. Rosendahl (2009), "Optimal Timing of Climate Change Policy; Interaction between Carbon Taxes and Innovation Externalities". *Environmental and Resource Economics* 43:369-390.

- Van der Zwaan, B. and R. Gerlagh (2009), The economics of geological CO<sub>2</sub> storage and leakage. *Climatic Change* 93:285-309. DEMETER Model code and output files available (zipfile, 1.1MB). See also comment on our paper in same issue.
- Pellegrini L. and R. Gerlagh, (2008), "Causes of Corruption: a survey of Cross-Country analyses and extended results", *Economics of Governance*, 9:245–263.
- Gerlagh R., (2008), "A Climate-Change Policy Induced Shift from Innovations in Carbon-Energy Production to Carbon-Energy Savings", *Energy Economics*, 30: 425-448.
- Gerlagh R., (2007), "The level and distribution of costs and benefits over generations of an emission stabilization program", *Energy Economics* 29: 126-131. Click here (257k) for the paper + GAMS source code of the model + Excell file with figures.
- Gerlagh, R., (2007), "Measuring the value of induced technical change", *Energy Policy* 35: 5287-5297.
- Pellegrini L. and R. Gerlagh, (2006), "Corruption, Democracy and Environmental Policy: an Empirical Contribution to the Debate", *Journal of Environment and Development*, 15 (3): 332-354. (pdf-file, 107k)
- Papyrakis, E. and R. Gerlagh (2006), "Resource Windfalls, Investment, and Long-Term Income", *Resources Policy* 31: 117-128, (pdf-file, 268k).
- Gerlagh R. and B.C.C. van der Zwaan (2006), Options and Instruments for a Deep Cut in CO<sub>2</sub> Emissions: Carbon Capture or Renewables, Taxes or Subsidies?, *The Energy Journal*, 27:25-48.(pdf-file, 248k)
- Van der Zwaan, B.C.C. and R. Gerlagh (2006), "Climate Sensitivity Uncertainty and the Necessity to Transform Global Energy Supply Energy", *Energy* 31: 2235-2251. (pdf-file, 283k)
- Pellegrini L. and R. Gerlagh, (2006), Corruption and environmental policies: what are the implications for the enlarged EU?, *European Environment* 16:139-154.(pdf-file, 359k)
- Van Heerden, J.H., R. Gerlagh, J. Blignaut, M. Horridge, S. Hess, R. Mabugu, and M. Mabugu (2006), "Searching for triple dividends in South Africa: Fighting CO<sub>2</sub> pollution and poverty while promoting growth", *The Energy Journal*, 27(2): 113-141. (pdf-file, 313kb)
- Gerlagh R., (2006), "ITC in a Global Growth-Climate Model with CCS. The Value of Induced Technical Change for Climate Stabilization", *The Energy Journal*, Special issue on Induced Technological Change and Climate Change, 55-72. (pdf-file 1.270k)
- Van Heerden, J., J. Blignaut, M. Mabugu, R. Gerlagh, S. Hess, R.S.J. Tol, M. Horridge, R. Mabugu, M. de Wit and T. Letsoalo (2006), 'Redistributing Environmental Tax Revenue to Reduce Poverty in South Africa: The Cases of Energy and Water', *South African Journal of Economic and Management Science*, 9 (4), 537-552. (paper, pdf-file, 376k)
- Gerlagh R., and W. Lise (2005), Carbon taxes: a drop in the ocean, or a drop that erodes the stone? The effect of carbon taxes on technological change, *Ecological Economics* 54: 241-260.
- Gerlagh R. and M.A. Keyzer (2004) "Path dependence in a Ramsey model with resource amenities and limited regeneration", *Journal of Economic Dynamics and Control* 28: 1159-1184. (pdf-file, 382k)
- Gerlagh R., B.C.C. van der Zwaan, M.W. Hofkes, and G. Klaassen (2004), "Impacts of CO<sub>2</sub> taxes when there are niche markets and learning by doing", *Environmental and Resource Economics* 28:37-394. (intro + concl, pdf-file, 120k)
- Gerlagh R., and B.C.C. van der Zwaan (2004), "A sensitivity analysis on timing and costs of greenhouse gas abatement, calculations with DEMETER", *Climatic Change* 65:39-71
- Papyrakis, E. and R. Gerlagh (2004), "The resource curse hypothesis and its transmissions channels", *Journal of Comparative Economics* 32:181-193.(first 10 pages, pdf-file, 180k)
- Pellegrini, L. and R. Gerlagh (2004), "Corruption's effect on growth and its transmission channels", *Kyklos* 57: 433-462.(intro, pdf-file, 216k)
- C. Carraro, B.C.C. van der Zwaan, and Gerlagh R. (2003), "Endogenous Technological Change in Economy-Environment Modeling, an Introduction", Guest Editors for Special Issue in *Resource and Energy Economics*, 25:1-10. (first 4 pages as pdf-file, 65k)
- Gerlagh R., and B.C.C. van der Zwaan (2003), "Gross World Product and Consumption in a Global Warming Model with Endogenous Technological Change", *Resource and Energy Economics*, 25:35-57. (first 4 pages as pdf-file, 65k) Model used available through (zipped GAMS model, 104 k)
- Kuik O., and R. Gerlagh (2003), "The effect of trade liberalization on carbon leakage under the Kyoto Protocol", *The Energy Journal* 24(3):97-120. (first 4 pages as pdf-file, 24k)

- Gerlagh R. and E. Papyrakis (2003) "Are the economic costs of (non-)stabilising the atmosphere prohibitive? A comment", *Ecological Economics* 46:325-327. pdf-file (161 k) (extracted pages, 145k)
- Gerlagh R., R. Dellink, M.W. Hofkes, and H. Verbruggen (2002), "A Measure of Sustainable National Income for the Netherlands", *Ecological Economics* 41: 157-174.
- van der Zwaan B.C.C., R. Gerlagh, G. Klaassen, and L. Schrattenholzer (2002), Endogenous technological change in climate change modeling, *Energy Economics*, 24:1-19, 2002.
- Gerlagh R. and B.C.C. van der Zwaan (2001) "The effects of ageing and an environmental trust fund in an OLG model on carbon emission reductions", *Ecological Economics* 36(2): 311-326.(first 4 pages as pdf-file, 72k)
- Gerlagh R. and M.A. Keyzer (2001) "Limits to growth theory", Ch. 13, pp 219-232 in *Coordination and Growth, Essays in Honour of Simon Kuipers*, eds. G. H. Kuper, E. Sterken and E. Wester, Kluwer Academic Press, Dordrecht. (pdf-file, 161k)
- Verbruggen H., R.B. Dellink, R. Gerlagh, M.W.Hofkes, and H.M.A. Jansen (2001) "Alternative calculations of a sustainable national income according to Huetting" in *Economic Growth and Valuation of the Environment*, edited by E.C.van Ierland, J.van der. Straaten, and H.R.J. Vollebergh. Edward Elgar, Cheltenham, UK.
- Gerlagh R. and B.C.C. van der Zwaan (2000), "Overlapping Generations versus Infinitely-Lived Agent; The Case of Global Warming", pages 301-327 in *The long-term economics of climate change, Volume 3*, edited by Richard Howarth and Darwin Hall, JAI Press, Stamford, Connecticut. (pdf-file, 250k)
- Gerlagh R. (2000), "Discounting and sustainability in applied IAMs", pages 315-326 in *Efficiency and Equity of Climate Change Policy*, edited by Carlo Carraro, Kluwer, Dordrecht. (pdf-file, 46k)
- Gerlagh R (1998), *The efficient and sustainable use of environmental resource systems*, Thela Thesis, Amsterdam. (thesis: English summary / Dutch summary)
- Alcamo, J., G.J.J. Kreileman, J.C. Bollen, G.J. van den Born, R. Gerlagh, M.S. Krol, A.M.C. Toet, H.J.M. Vries (1996), "Baseline scenarios of global environmental change" in *Global Environmental Change* 6: 261-303.