

CURRICULUM VITAE



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CURRENT POSITIONS

- 1999 – current **University of Graz, Department of Economics**
Associate Professor (Ao. Univ.-Prof.) in Economics
- 2004 – current **University of Graz, Wegener Center for Climate and Global Change**
Head Research Group Economics of Climate and Environmental Change (EconClim)

PROFESSIONAL PREVIOUS EXPERIENCE

- 1990 – 1999 **University of Graz, Department of Economics**
1990 Universitätsassistent
1994 Assistant Professor (Post-doc)
- 2004 – 2015 **University of Graz, Wegener Center for Climate and Global Change**
2004 – 2013 Deputy Director Wegener Center
2013 – 2015 Board of Directors
- 1991 – 2016 **University of Natural Resources and Life Sciences, Vienna**
Department of Economics and Social Sciences
External Faculty in Environmental and Resource Economics

- 1997 **University of Trieste, Italy**
Department of Economics, Guest Professor
- 1997, 2008 **University of California, Berkeley, US**
Department of Economics and of Agricultural and Resource Economics
Visiting Scholar (invited by and collaborating with George Akerlof, Michael Hanemann, and Richard Norgaard)
- 1995 **University of Maryland, College Park, US**
Department of Agriculture and Resource Economics
Visiting Scholar (collaborating with Nancy Bockstael)
- 1990 **World Bank, Washington D.C., US**
Environment Department, Policy and Research Division
Consultant, engaged in Environmental Accounting & Water Supply Economics
- 1988 – 1989 **University of Technology, Vienna**
Department of Economics
Research and Teaching Assistant (in economic computer simulation & game theory)
- 1985 – 1989 **Girozentrale Vienna**
Economics Department
Economist/Consultant (in economic analysis/country reports)

ACADEMIC EDUCATION

- 1999 **University of Graz**
Venia docendi "Economics" (Univ.-Doz.)
Thesis "International Trade and Transport" (Cheltenham: Edward Elgar, 2001)
- 1990 – 1994 **University of Vienna**
Ph.D. Program, Dr. rer.soc.oec. ("with distinction", April 1994)
Thesis "Trade and Environment" (Heidelberg: Physica, 1995)
- 1989 – 1990 **University of California, Berkeley**
Department of Economics
Graduate studies in International trade (P. Bardhan), Macroeconomics (G. Akerlof), Environmental and resource economics (M. Hanemann, T. Fisher), Global environmental problems (J. Harte)
- 1984 – 1988 **University of Vienna and University of Technology, Vienna**
Master Programme Economics/Computer Science (combined program)
Thesis "The net financial transfer" (published in Quartalshefte Girozentrale II/89)
Mag.rer.soc.oec. ("with distinction", October 1988)

APPOINTMENTS AND ACADEMIC AWARDS

- 2013 – Austrian Academy of Sciences, Commission on Sustainable Mobility
- 2000 – Austrian Academy of Sciences, National Committee on Global Change
- 2003 University of Technology Vienna, (C4-)Professor in "Resource Management", listed
- 2002 University of Rostock, (C4-)Professor in "Resource Economics", listed
- 2000 University of Innsbruck, (C4-)Professor in "International Economics", listed
- 2000 Technical University Freiberg, Professor in "Resource Economics", listed
- 1999 Austrian Economic Association (NÖG), Best Paper Award – Young Economist
- 1989/90 Fulbright Commission US-Austrian Scholarship (UC Berkeley, US)

SCIENTIFIC AND RESEARCH MANAGEMENT APPOINTMENTS

2016 –	Chair, Executive board, Climate Change Centre Austria (CCCA), www.ccca.ac.at
2011 –	Executive board of the Austrian Economic Association (NOeG) www.noeg.ac.at
2009 –	National Committee, World Energy Council
1999 –	Country representative, European Association of Environmental and Resource Economists (EAERE)
2014 – 2016	Chair, Chapter of Environmental and Resource Economists (AUROe), Verein für Sociapolitik www.auroe.info
2011 – 2015	Deputy Chair, Executive Board, Climate Change Centre Austria (CCCA)
2010 – 2015	Steering Committee, Swiss Science Foundation, National Research Program NFP 65 “New Urban Quality” www.nfp65.ch
2012 – 2015	Steering Committee, Green Tech Research Styria
2006 – 2009	Advisory Board, ERA-Net Climate Impact Research Coordination for a Larger Europe (CIRCLE) www.circle-era.net
2003 – 2008	Advisory Committee on Sustainable Development, Austrian Federal Government
1998 – 2005	Working Group on Transport, Environmental Policy Committee, OECD
1996 – 1998	Working Group on Sustainable Consumption, Tackling Environmental and Resource Management Program, European Science Foundation
1996 – 1997	Working Group on Environmental Quality in European Space, Tackling Environmental and Resource Management Program, European Science Foundation

INSTITUTIONAL RESPONSIBILITIES

2010 –	Speaker, Research core area (“Forschungsschwerpunkt”) Environment and Global Change, University Graz
2010 – 2011	Selection committee for a full professor in Econometrics, University of Graz
2009 – 2010	Reviewer, Selection process for a full professor in Sustainable Land Use and Global Change, University of Natural Resources and Life Sciences, Vienna (BOKU)
2009	Reviewer, Study program Economics and Policy, Wageningen University, Netherlands
2008	Chair, Selection committee for a full professor in Systems Sciences, University of Graz
2007 – 2008	Reviewer, Habilitation process Erwin Schmid, University of Natural Resources and Life Sciences, Vienna (BOKU)
2001	Reviewer, Habilitation process Michael Getzner, University of Klagenfurt
1992 – 1998	Faculty Board of the School of Business, Economics and Social Sciences

STUDY PROGRAM ENVIRONMENTAL SYSTEMS SCIENCES

2002 – 2007	(Founding) Chair, Study program commission for “Environmental System Sciences”
2007 – 2016	Vice-Chair, Study program commission “Environmental Systems Sciences (USW)”

TEACHING ACTIVITIES

1999 –	Academic teaching at University of Graz (teaching load ~8h/week)
1991 – 2015	Academic teaching at University of Natural Resources and Life Sciences, Vienna (BOKU) (1h/week in each winter term)
1990 – 1998	Academic teaching at University of Graz (teaching load 4h/week)
1988 – 1989	Academic teaching at University of Technology Vienna (teaching load 2h/week)

SUPERVISION OF GRADUATE STUDENTS

- 2000 – Supervisor and reviewer of doctoral dissertations (completed 13; ongoing 5), University of Graz and Technical University Berlin
- 1999 – Supervisor and reviewer of Master's theses (completed 52; ongoing 1) at University of Graz and Graz University of Technology

THIRD PARTY RESEARCH FUNDING ACQUIRED, LEAD (SINCE 2004)¹

<i>Current ongoing projects</i>		<i>Total of projects since 2004</i>	
EU (FP7, H2020) [#]	3	EU (FP 7, H2020) [#]	3
FWF (DK) [# of PhD students]	2	FWF[# of PhD students]	2
Climate and Energy Fund, ACRP [#]	1	Climate and Energy Fund, ACRP [#]	8
Austrian Academy of Sciences [#]	1	Austrian Academy of Sciences [#]	1
OeNB [#]	1	OeNB [#]	5
FFG (COMET) [#]	1	FFG [#]	9
Other [#]	0	Other [#]	17
Total funding volume [k€]	1.681	Total funding volume [k€]	5.449

¹ as of September 2016

REVIEWER ROLES (SELECTED)

- 2000 – Reviewer for >25 international peer-review journals; including *Journal of Environmental Economics and Management*; *Environmental and Resource Economics*; *Energy Economics*; *Climate Policy*; *Ecological Economics*; *Energy Policy*; *Environmental Innovation and Societal Transitions*; *Global Environmental Change*; *Journal of Environmental Management*; *nature Climate Change*; *nature Communications*; *PNAS*; *Review of Agricultural Economics*; *Science*; *Transportation Research*
- 2002 – Austrian Academy of Sciences, proposal evaluations
- 2005 – Austrian Institute of Economic Research (WIFO), Vienna, reviewer in personnel decisions
- 2006 – Austrian National Bank, Research Fund, proposal evaluations
- 2007 – Program Committee, Annual Meetings of the European Association of Environmental and Resource Economists (EAERE)
- 2015 – Swiss National Science Foundation National Program (NFP) "Renewable Energy"
- 2016 – Advisor, Program Climate, Climatic Change, and Society (ClCCS), University of Hamburg
- 2013 – Leibniz-Gemeinschaft Evaluation Committee for Zentrum für Europäische Wirtschaftsforschung (ZEW), Mannheim (Germany)
- 2011 – Netherlands Organization for Scientific Research, proposal evaluation
- 2010 – German Science Foundation (DFG), proposal evaluation
- 2010 – Leibniz Gemeinschaft (Germany), proposal evaluation
- 2008 – Center for Advanced Study, Oslo, proposal evaluation
- 2003 – 2007 – EU RTD FP6 (Environment and Climate Change), member of three evaluation committees
- 2001 – 2002 – EU RTD FP5 (Environment), member of two evaluation committees

PUBLICATION STATISTICS (SINCE 1994)³

Articles in <i>peer review</i> journals [#]	35	H-index ISI	9
Single-authored books [#]	2	H-index SCOPUS	12
Books edited [#]	7	H-index Google Scholar	19
Papers in high-impact journals [#]	13	Citations ISI	204
Papers in journals [#]	51	Citations SCOPUS	462
Chapters in assessment reports [#] ¹	7	Citations Google Scholar	1 272
Chapters in edited volumes [#]	46	i-10 index ² Google Scholar	30

¹ incl. summaries, annexes, etc. ² # of publications with at least 10 citations ³ as of September 2016

SELECTED PEER-REVIEWED JOURNAL PUBLICATIONS OF LAST 5 YEARS

- Steininger, K.W., Bednar-Friedl, B., Formayer, H., König, M. (2016), Consistent economic cross-sectoral climate change impact scenario analysis: method and application to Austria, *Climate Services* 1: 39 -52; doi: 10.1016/j.cliser.2016.02.003
- Steininger, K.W., Lininger, C., Meyer, L.H., Munoz, P., Schinko, T. (2016), Multiple carbon accounting to support just and effective climate policies, *Nature Climate Change* 6: 35-41, online Nov 23, 2015; doi: 10.1038/nclimate2867
- Grossmann, W., Grossmann, I., Steininger, K.W. (2015), Solar electricity supply isolines of generation capacity and storage, *Proceedings of the National Academy of Sciences* (PNAS) 112(12): 3663-3668; doi: 10.1073/pnas.1316781112
- Steininger, K.W., Lininger, C., Droege, S., Roser, D., Tomlinson, L, Meyer, L. (2014), Justice and cost effectiveness of consumption-based versus production-based approaches in the case of unilateral climate policies, *Global Environmental Change*, 24: 75-87; doi: 10.1016/j.gloenvcha.2013.10.005
- Kulmer, V., Koland, O., Steininger, K.W., Fuerst, B., Kaefer, A. (2014), The interaction of spatial planning and transport policy: A regional perspective on sprawl, *The Journal of Transport and Land Use* 7: 1-13; doi: 10.5198/jtlu.v7i1.360
- Steininger, K.W., Bachner, G. (2014), Extending Car-Sharing to Serve Commuters: an Implementation in Austria, *Ecological Economics* 101: 64-66; doi: 10.1016/j.ecolecon.2014.03.001
- Schinko, T., Bednar-Friedl, B., Steininger, K.W., Grossmann, W. (2014), Switching to carbon-free production processes: Implications for carbon leakage and border carbon adjustment, *Energy Policy* 67: 818-831; doi: 10.1016/j.enpol.2013.11.077
- Grossmann, W.D., Grossmann, I., Steininger, K.W. (2014), Solar electricity generation across large geographic areas, part II: A Pan-American energy system based on solar, *Renewable and Sustainable Energy Reviews* 32: Pages 983-993; doi: 10.1016/j.rser.2014.01.003
- Grossmann, W.D., Grossmann, I., Steininger, K.W. (2013), Distributed solar electricity generation across large geographic areas, Part I: A method to optimize site selection, generation and storage, *Renewable and Sustainable Energy Reviews* 25: 831-843
- Bednar-Friedl, B., Schinko, T., Steininger, K.W. (2012), The relevance of process emissions for carbon leakage: A comparison of unilateral climate policy options with and without border carbon adjustment, *Energy Economics* 34, Suppl 2: S168-S180; doi: 10.1016/j.eneco.2012.038
- Steininger, K.W., Schmid, C., Tobin, A. (2012), Regional and climate mitigation impacts of expanding the heavy duty vehicle charge to the secondary road network: A quantitative analysis for Austria, *Empirica* 39(2): 261-278; doi: 10.1007/s10663-012-9184-9
- Wolkinger, B., Steininger, K.W., Damm, A., Schleicher, S., Grossmann, W., Türk, A., Tatzber, F., Steiner, D. (2012), Implementing Europe's climate targets at the regional level, *Climate Policy* 12(6): 667-689; doi: 10.1080/14693062.2012.669096
- Grossmann, W., Steininger, K.W., Schmid, C., Grossmann, I. (2012), Investment and Employment from Large-Scale Photovoltaics up to 2050, *Empirica* 39(2): 165-189 ; doi: 10.1007/s10663-012-9185-8
- Köppl, A., Steininger, K.W. (2012), The Climate Challenge for the Energy System, *Empirica* 39(2): 157-163, doi: 10.1007/s10663-012-9190-y

EVIDENCE OF PEER RECOGNITION OF SCIENTIFIC ACHIEVEMENTS

Nominated for the highly competitive Austrian Wittgenstein Prize by the rectorate of the University of Graz in September 2016. This prize (1.2 million €) is awarded each year to one Austrian researcher. Each Austrian university vice rector of research may nominate up to one scientist per year.

CONTRIBUTIONS TO AUSTRIAN ASSESSMENT REPORT CLIMATE CHANGE

2011 – 2014 Organizing Committee & Convener, Austrian Panel of Climate Change
Convening Lead Author 'Summary for Policymakers', 'Synthesis'
Co-Chair Volume III, Climate Change in Austria: Mitigation and Adaptation
Lead Author, chapters 'Emission Reduction and Adaptation to Climate Change',
'Energy and Transport', 'Production and Buildings'

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

German Economic Association (Verein für Socialpolitik), Chair, Chapter of Env & Res Econ (2014-2016)
European Association of Environmental and Resource Economists (EAERE), Country representative (1999–)
Austrian Economic Association, Executive board (2011 –)
Association of Environmental and Resource Economists (AERE)
American Economic Association

ORGANISATION OF SCIENTIFIC MEETINGS (SELECTED FROM PERIOD SINCE 2010; TOTAL #25)

2016 Chair, EU H2020 Modelers Workshop for transitions pathways and risk analysis for climate change mitigation and adaptation strategies, Graz.
2016 Organizing Committee, Annual Austrian Climate Conference, Graz.
2015 Co-Convener of Session "Development of pathways: their mix of endogenous and exogenous uncertainties under a changing climate", Our Common Future under Climate Change, Paris
2014 Co-Convener of Session "Renewable Electricity" at Berkeley Bioeconomy Conference "Biofuels as part of a sustainable strategy", UC Berkeley, US
2013 Chair, Workshop "Cost of Inaction: Impacts of Climate Change", University of Technology & Univ, of Natural Resources & Life Sciences Vienna
2012 Scientific and Organizing Chair, Workshop "Designing an Effective and Fair New Climate Regime: The Role of Accounting, International Carbon Flows and New Market Mechanisms", Centre of the Regions, EU, Brussels
2011 Co-Chair of the Program Committee, Chair of the Local Organizing Committee
Annual Meeting of the Austrian Economic Association, Graz, Austria, <http://noeg2011.uni-graz.at>
2011 Scientific Co-Chair, Workshop „Responding to the challenges for international and European climate policy after Copenhagen and Cancun“, SWP Berlin, Berlin, Germany
2010 Co-Chair, Nachwuchsworkshop "Umweltökonomik" der Ausschusses für Umwelt und Ressourcenökonomik (AURÖ) der Vereins für Socialpolitik, Graz
annually Member of the Program Committee (Referee) for Annual Conferences of the European Association of Environmental and Resource Economists (EAERE) (respectively World Conference)

DESIGN AND LEADERSHIP OF LARGE-SCALE INTERDISCIPLINARY PROJECTS (SELECTED); (FOR FULL LIST SEE SEPARATE DOCUMENT "RESEARCH PROJECTS")

- Cost of Inaction: Assessing Costs of Climate Change for Austria (COIN): quantitative evaluation of economic costs of climate impacts across all sectors and their macroeconomic interaction; project lead (18 national and international partners), funded by Austrian Climate Research Program, 2013-2015.
- Transitions pathways and risk analysis for climate change mitigation and adaptation strategies (TRANSrisk): analyzing and quantifying the risks of climate policies; responsible for coordinating the quantitative modeling across the 12 international partners, funded by EU Horizon 2020, 2015-2018.
- Coordination and Assessment of Research and Innovation in Support of Climate Mitigation Actions (CARISMA): evaluating low-carbon pathways, responsible for quantitative macroeconomic cost evaluation; 10 international partners, funded by EU Horizon 2020, 2014-2018.
- Climate Policy responding to the past-Copenhagen Challenge of unilateral action (RESPONSE): analyzing consumption versus production based policy; project lead (1 national and 3 international partners), funded by Austrian Climate Research Program, 2011-2013.
- Innovative climate policy instruments to reduce consumption-based emissions to complement territorial emission reduction efforts (INNOVATE): Identifying and evaluating climate policy instruments to tackle consumption-based emissions; project lead (3 national, 3 international partners), funded by Austrian Climate Research Program, 2015-2017.
- Doctoral Program Climate Change - Uncertainties, Thresholds and Coping Strategies (DK CC), PhD projects on 'sustainable energy' and on 'climate impact financing'; funded by FWF, 2014-2018.