

Curriculum vitae

Stefan Ambec

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FIELDS OF SPECIALIZATION

Environmental and Natural Resource Economics, Energy Economics.

CURRENT POSITION

INRAE Researcher Professor (Directeur de Recherche INRAE), Toulouse School of Economics (since 2007)
Director, TSE Energy and Climate Center (since 2016)

EDUCATION:

Ph.D. in Economics, University of Montreal, Canada (1999)
M. Sc in Econometrics, University of Toulouse, France (1992)
B.Sc. in Economics, University of Toulouse, France (1991)

PREVIOUS POSITIONS

2001-2007: INRA Researcher, University of Grenoble, France (2001-2007)
2000-2001: Postdoc, CSEF (Centre for the Studies of Economics and Finance), University of Salerno, Italy
1999-2000: Postdoc, GREEN (Research Group in the Economics of Environment, Energy and Natural Resources), Laval University Québec, Canada
1996-1997: Economist, (CSN, French National Service), IRD (French Scientific Research Institute for Development) in Dakar, Senegal.

VISITING PROFESSOR POSITIONS

University of Gothenburg (2010-2018)
University of Lausanne (Fall 2008, Fall 2007),
University of Montreal (Winter 2005).
External member of CREATE, Laval University, Québec

EDITORIAL ACTIVITIES

Editor-in-Chief, Resource and Energy Economics (since 2015)
Member of the Editorial Board, Journal of Environmental Economics and Management
Member of the Editorial Council, Journal of the Association of Environmental Economists
Co-Editor, Environmental and Resource Economics (2013-2015)

TEACHING EXPERIENCE

Energy and Climate Economics, Ph.D. and Master levels, Toulouse School of Economics, since 2021

Advanced Environmental Economics, Ph.D. and Master levels, Toulouse School of Economics, since 2018
Environmental Economics, graduate level, Toulouse School of Economics, 2009-2018.
Environmental Policy Instruments, PhD level, University of Gothenburg, 2010, 2012, 2014.
Green Business Strategies, graduate level, Toulouse School of Economics, 2011, 2012.
Advanced in Environmental and Resource Economics, Ph.D. level, Toulouse School of Economics, 2011
Water Economics, graduate level, Toulouse School of Economics, 2010, 2011.
Microeconomics, advanced undergraduate, University of Lausanne (HEC), 2008.
Contract Theory, graduate, University of Lausanne (HEC), 2008.
Financial Contracting, graduate, University of Lausanne (HEC), 2007.
Game Theory, advanced undergraduate, University of Lausanne (HEC), 2007.
Economics of Organizational Design, graduate, EM Lyon (Lyon Business School), 2006, 2007.
Applied Microeconomics, undergraduate, EM Lyon (Lyon Business School), 2006.
Economics for the Supply Chain, graduate in engineering, Grenoble 2005, 2006, 2007.
Advanced industrial Organisation, advanced undergraduate, University of Montreal, 2005.
Microeconomics, undergraduate in engineering, Grenoble, 2003, 2004
Economics of Innovation, graduate, University of Grenoble, 2001, 2002, 2003.
Applied Game Theory, graduate, Université de Grenoble, 2002, 2003, 2004.
International Economics, undergraduate, business school, Laval University, Quebec, 1999.
Environmental Economics, undergraduate, University of Montreal, 1998.

PUBLICATIONS

Sharing Rules for a Common-Pool Resource in a Lab Experiment (with Benjamin Ouvrard, Arnaud Reynaud, Stéphane Cezera, and Murudaiah Shivamurthy), ***Social Choice and Welfare***,

Environmental policy with green consumerism (with Philippe De Donder), ***Journal of Environmental Economics and Management***

The information value of environmental taxes (with Jessica Coria) ***Journal of Public Economics***, 2021, 199: 199: 104439

Real-time electricity pricing to balance green energy intermittency (with C. Crampes) ***Energy Economics***, 2021, 94: 105074.

Decarbonizing electricity generation with intermittent sources of energy (with C. Crampes) ***Journal of the Association of Environmental and Resource Economists***, 2019, 6: 919-948.

How institutions shape individual motives for efficiency and equity: Evidence from distribution experiments (with A. Garapin, L. Muller, B. Rahali), ***Journal of Behavioral and Experimental Economics*** 2019, 81: 128-138.

Policy spillovers in the regulation of multiple pollutants (with J. Coria) **Journal of Environmental Economics and Management**, 2018, 87:114-134.

Regulation via the polluter-pays principle (with L. Ehlers) **Economic Journal**, 2016, 593: 884-906.

Decision-making in organizations: when to delegate and whom to delegate (with M. Poitevin) **Review of Economic Design**, 2016, 20: 115-143

Cooperative decision-making for the provision of a locally undesirable facility, (with Y. Kervinio) **Social Choice and Welfare**, 2016, 46:119-155.

Spatial efficiency of genetically modified and organic crops (with C. Langinier and P. Marcoul) **Strategic Behavior and the Environment** 2015, 5: 31-59.

Regulatory instruments to protect the commons: An experimental investigation (with A. Garapin, L. Muller and C. Sebi) **Environmental and Resource Economics**, 2014, 58:219-244.

Water Sharing Agreements Sustainable to Reduced Flows (with A. Dinar and D. McKinney) **Journal of Environmental Economics and Management**, 2013, 66: 639–655.

Prices vs Quantities with Multiple Pollutants (with Jessica Coria) **Journal of Environmental Economics and Management**, 2013, 66(1), 123-140.

The Porter Hypothesis at 20: Can Environmental Regulation Enhance Innovation and Competitiveness? (with M.A. Cohen, S. Elgie and P. Lanoie) **Review of Environmental Economics and Policy**, 2013 7(1), 2-22

Electricity Production with Intermittent Sources of Energy (with Claude Crampes) **Resource and Energy Economics** 2012 34(3), 319-336

Regulation of a Spatial Externality: Refuges versus Tax for Managing Pest Resistance (with M. Desquilbet) **Environmental and Resource Economics**, 2012, 51: 79-104.

The distributional impact of common-pool resource regulations (with Carine Sebi) **Indian Growth and Development Review**, 2011, 4(2), 123-141.

Environment policy, innovation and performance: New insights on the Porter hypothesis (with P. Lanoie, J. Laurent-Lucchetti and N. Johnstone) **Journal of Economics and Management Strategy**, 2011, 20(3): 803–841.
FIR-PRI Finance & Sustainability Award 2012 for the best published article.

Fair intergenerational sharing of a natural resource (with H. d’Albis), **Mathematical Social Science** 2010, 59(2): 170-183.

Does it pay to be green? A Systematic Overview (with P. Lanoie), **Academy of Management Perspectives** 2008, 23: 45-62. *Prize of the most cited paper in Academy of Management Perspective in the last decade 2018.*

Sharing a river among satiable agents (with L. Ehlers), **Games and Economic Behavior** 2008, 64:35-50.

Voting over informal risk-sharing rules, **Journal of African Economies** 2008 17: 635-659.

Sharing a common resource with concave benefits, **Social Choice and Welfare** 2008, 31: 1-13.

Incentive to reduce crop trait durability (with S. Lemarié and C. Langinier), **American Journal of Agricultural Economics** 2008, 90 : 379-391.

Equity and efficiency in the river sharing problem, (with L. Ehlers) Chapter 6 in *Game Theory and Policy Making in Natural Resources and the Environment* Edited by A. Dinar, J. Albiac and J. Sanchez-Soriano, Routledge Explorations in Environmental Economics 2008.

Sequential communication with ex post participation constraints, **Journal of Economic Theory** 2007, 137: 733-744.

Survivance des fondements théoriques de l'hypothèse de Porter, (with P. Barla), **L'Actualité Economique**, 2007, 83: 1-15.

Roscas as financial agreements to cope with social pressure (with N. Treich), **Journal of Development Economics** 2007, 82: 120-137.

Can environmental regulations be good for business? An assessment of the Porter Hypothesis (with P. Barla), **Energy Studies Review** 2006, 14: 42-62.

On the redistributive impact of privatizing a resource under imperfect enforcement (with L. Hotte), **Environment and Development Economics**, 2006, 11: 1-20.

Fees or refuges: which is better for the sustainable management of insects resistance to transgenic Bt corn? (with C. Vacher, D. Bourguet, M. Desquilbet, S. Lemarié and M.H. Hochberg) **Biology Letters**, 2006, 2: 198-202.

Decentralizing hydropower production (with J. Doucet) **Canadian Journal of Economics**, 2003, 36: 587-607.

A theoretical foundation to the Porter hypothesis (with P. Barla), **Economic Letters**, 2002, 75: 355-360.

Sharing a river (with Y. Sprumont), **Journal of Economic Theory**, 2002, 107: 453-462.

WORKING PAPERS

Environmental markets exacerbate inequalities

Unilateral carbon pricing with electricity trade (with Yuting Yang)

RESEARCH GRANTS

European Union, Global Excellent in Modeling of Climate and Energy (GEMCLIM)
(Leader TSE team, 500 000 euros for TSE over 2 millions euros)

The Sloan Foundation : 2018-2019. Energy and Climate Economics Conferences (leader \$ 50 000).

French Research Agency, *Political Economy of the Environment* 2013-2015 (leader, 50 000 euros).

European Union, *Economic Modelling for Energy-Climate Policy* (ECOCEP) 2014-2017
Leader TSE team, <http://ecocep.cuni.cz/ecocep>

French Research Agency, Young researchers program
Fair environmental policies 2009-2011 (leader, 65 000 euros).

French Research Agency, GMO program
Contribution of modelling in a multi-disciplinary approach to manage coexistence between GM and non-GM maize, multidisciplinary project with biologists, agronomists, physicist and statisticians, 2006-2009, 18 244 euros out of 308 000 euros (leader of the economics workpackage).

French Research Agency, Agriculture and sustainable development program
Sustainable exploitation of pest resistance, multidisciplinary project with biologists and agronomists, physicist and statisticians, 2005-2008, 21 900 euros out of 598 000 euros.

French Ministry of Science,
The collective choice of a natural resource exploitation regimes, (2005-2008), 17 000 euros (leader).

STUDENTS

Supervision of Ph D students:

Alipio Ferreira Da Silva (now at Southern Methodist University)
Aysegul Kanay (co-supervised with Denis Hilton, Department of Psychology, University of Toulouse)
Yuting Yang (Toulouse School of Economics 2020, now at University of New Mexico)
Yann Kervinio (Toulouse School of Economics 2016, now at CIRED)
Carine Sebi (University of Grenoble 2008, now at Grenoble School of Management)

Member of thesis committees:

Pauline Pedehour (University of Nantes 2022)
Charles Pebereau (TSE 2022)
Ling Zhou (TSE 2021)
Roweno Heijmans (Tilburg University 2021)
Behrang Shirizadeh (EHESS Paris 2021)
Anouk Faure (Paris Nanterre University 2020)
Adrien Fabre (Paris School of Economics 2020)
Dinna Kassab (Paris School of Economic 2015)
Sarina Steinman (University of Bern 2015)
Xiao-Bing Zhang (University of Gothenburg 2015)
Nigel Moes (Free University of Amsterdam 2010)
Marianne Lefèvre (University of Montpellier 2011)
Jeremy Laurent-Luchetti (HEC Montreal 2009)

HDR committees:

Louis-Gaëtan Giraudet (CIRED, 2022)
Hélène Ollivier (Paris School of Economics, 2018)
Guy Menier (University of Toulouse, 2015)

LEADERSHIP AND MANAGEMENT ACTIVITIES

2020:- Leader of the environmental economics group at TSE
2016:- Director TSE Energy and Climate Center
2019-2020: President of the evaluation committee on the EU-Mercosur trade agreement mandated by the French Government

2009:- Member of the TSE recruiting committee

2009-2012: Director of the Master in Environmental and Natural Resource Economics in Toulouse

PERSONAL INFORMATIONS

Citizenship: French.

Status: Married, four children.

Date of birth: August 23th, 1970.

Languages: Fluent in English and French, notions of Italian and Swedish.