

## *Curriculum vitae*

### **Stefan Ambec**

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#### **FIELDS OF SPECIALIZATION**

Environmental and Natural Resource Economics, Industrial Organization, Microeconomics.

#### **CURRENT POSITION**

INRA Researcher Professor (Directeur de Recherche INRA), 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).  
CESifo network member  
External member of CREATE, Laval University, Québec

## EDITORIAL ACTIVITIES

Editor, *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

*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

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.
- 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.
- 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**

The information value of environmental taxes (with Jessica Coria)

Real-time electricity pricing to balance green energy intermittency (with Claude Crampes)

Environmental policy with green consumerism (with Philippe De Donder)

Environmental markets exacerbate inequalities

#### **NEWSPAPERS ARTICLE AND SURVEYS IN FRENCH**

Efficacité énergétique des bâtiments : de la théorie à la pratique (avec Claude Crampes), La Tribune, juillet 2020

Roulement de batterie chez Tesla (avec Claude Crampes), La Tribune, 2 juin 2020

Le pétrole à l'épreuve du confinement (avec Claude Crampes), La Tribune, 15 mai 2020

Covid 19 : les marchés de l'électricité infectés (avec Claude Crampes), La Tribune, 15 avril 2020

Eviter la taxe carbone à tout prix (avec Claude Crampes), La Tribune, 30 mars 2020

Les coûts de la sortie du nucléaire en Allemagne (avec Claude Crampes), La Tribune, 18 février 2020

Parlera-t-on de la fertilité à la COP25 ? (avec Claude Crampes), La Tribune, 9 décembre 2019

Une électricité verte teintée de gris (avec Claude Crampes), La Tribune 15 novembre 2019

Amarres électriques (avec Claude Crampes), La Tribune, 10 septembre 2019

Le pylône qui gâche la forêt (avec Claude Crampes), La Tribune, 15 avril 2019

L'ARENH et sa suite (avec Claude Crampes), La Tribune, 15 janvier 2019

Financer le service public de l'environnement (avec Claude Crampes), La Tribune, 10 décembre 2018

Intermittence et flexibilité sur les marchés électriques (avec Claude Crampes), La Tribune, 17 Octobre 2018

La valeur de l'électricité non distribuée (avec Claude Crampes), La Tribune, 18 juin 2018

Des compteurs intelligents pour garantir les besoins élémentaires (avec Claude Crampes), La Tribune 28 mai 2018

Les coûts lisses de l'électricité (avec Claude Crampes), La Tribune 6 avril 2018

100% d'énergies renouvelables: le climat dans le prétoire (avec Claude Crampes), La Tribune 8 mars 2018

Les bonnes résolutions environnementales de la Commission européenne (avec Claude Crampes), La Tribune 8 janvier 2018

La voiture électrique ne résout pas les problèmes de pollution, elle les déplace (avec Claude Crampes), Le Monde 14 décembre 2017

Marché européen du carbone: Phase 4 (with Claude Crampes) La Tribune 22 November 2017

Des prix négatifs pour l'électricité (with Claude Crampes) La Tribune 10 October 2017

Transition énergétique: le virage allemand (with Claude Crampes) La Tribune 12 September 2017

Subventionner les énergies vertes n'est pas la solution (with Claude Crampes), Le Monde, 11 december 2015

Without carbon pricing, subsidies to renewables can be counterproductive, (with Claude Crampes) The Economist Blog, November 30 2015

Why air pollution is sometimes good news for the climate (with Jessica Coria) The Economist Blog, October 12 2015

La détérioration de la qualité de l'air, une bonne nouvelle pour le climat ? (with Jessica Coria) Le Monde 25 Septembre 2015

2015 Année climatique, La Tribune, Janvier 2015

Pourquoi il faut défendre le nouveau projet d'ecotaxe, La Tribune, 20 Mai 2014.

La contrainte réglementaire pousse à innover, *Le Monde*, 2 October 2012

Le coût de la réglementation environnementale, *L'Expansion*, October 2011

Innovation environnementale et profitabilité : les gains compensent-ils les coûts associés ? September 2011, *Cahiers de l'ILB*, Institut Louis Bachelier, Paris.

Pour une taxe carbone universelle à taux unique, *La Tribune*, 12 February 2010

Un prix élevé du carbone est de l'intérêt des entreprises, (avec F. Ricci) *La Tribune*, Decembre 1, 2009.

Performance économique et environnementale de l'entreprise (avec P. Lanoie), *Economie & Prévision*, 2009, n°190-191:71-94.

Changement climatique : quels enjeux pour les entreprises ? (avec F Ricci) *Collection Prospective et Entreprise*, septembre 2009, Editions CCI de Paris.

L'innovation au service de l'environnement et de la performance économique (avec P. Lanoie) *INRA Sciences Sociales*, février 2008, 4 pages.

## 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 (co-supervised with Helmut Cremer)

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 the Ministry of Environment)  
Carine Sebi (University of Grenoble 2008, now at Grenoble School of Management)

**Member of thesis committees:**

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, now at the University of Anger)  
Jeremy Laurent-Luchetti (HEC Montreal, 2009, now at the University of Geneva)

**ADMINISTRATIVE ACTIVITIES**

2020:- Leader of the environmental economic and natural resources 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.

**CONFERENCES (last 7 years)**

Italian Association of Environmental and Resource Economists annual meeting, Brescia, February 2020  
Workshop on Energy Transition, Hamburg, September 2019  
European Association of Environmental and Resource Economics, Manchester, June 2019  
Italian Association of Environmental and Resource Economists annual meeting, Udine, February 2019 (keynote speaker)  
Winter School of the EAERE, Ascona, February 2019  
Environment for Development Initiative Workshop 2018, Hanoi, Vietnam  
Green Growth Knowledge Platform Annual Conference on Sustainable Infrastructure, World Bank, Washington DC, November 2017 (invited speaker)  
CREE workshop, Oslo, October 2017 (invited speaker)  
European Association of Environmental and Resource Economics, Athen, June 2017  
Toulouse Conference of Energy and Climate Economics, June 2017  
Workshop on social preferences and environmental and resource economics, Manchester, May 2017 (invited speaker)  
Environment for Development Initiative annual workshop, Pucon, Chile, November 2016  
Canadian Group of Environmental and resource Economics, Banff, September 2016  
French Association for Environmental and Resource Economics, Bordeaux, September 2017  
International Association for Energy Economics, Bergen, June 2016  
Theory & Environment Workshop, Oslo March 2016

CESifo Conference on Energy Economics and Climate Change, Munich October 2015  
Journées d'économie de Lyon, October 2015 (invited speaker)  
LSE conference on innovation, growth and the environment, September 2015  
Toulouse Conference of Energy and Climate Economics, September 2015  
ANR Conference on "Faire face aux changements climatiques / Les apports de la recherche collaborative sur projets" (invited speaker), July 2015  
CESifo Conference on Energy Economics and Climate Change, Munich October 2014  
European Meeting of the Econometric Society, Toulouse, August 2014  
World Congress of Environmental and Resource Economists, Istanbul, June 2014  
Conference Coalition Theory Network, Brussel, January 2014  
Conference Public Economic Theory, Lisbon, July 2013  
Conference of the European Association of Environmental Economics, Toulouse, June 2013  
Conference of the Association of Environmental and Resource Economists, Banff, June 2013  
Workshop in Water Allocation, Free University of Amsterdam, January 2013  
Conference on Behavioral Environmental Economics, Toulouse, October 2012  
Canadian Group of Environmental and resource Economics, Vancouver, September 2012  
European Association of Environmental Economics, Prague, June 2012  
CESifo Conference on Energy and Climate Change, November 2011, Munich, Germany  
Society for the Advancement of Economic Theory Meeting, June 2011, Faro, Portugal  
World Congress of Environmental and Resource Economists, Montreal, June 2010  
Symposium on "The Porter Hypothesis at 20: Can Environmental Regulation Enhance Innovation and Competitiveness?", (invited speaker) Montreal, June 2010  
Coalition Formation Network Conference, Marseille, June 2010  
Conference on Firms, Environment and Natural Resources, Toulouse, June 2010

**SEMINARS AT UNIVERSITIES (last 7years)**

University of Milan Bicocca (2020) University of Ottawa, Université de Montreal (2019) SLU Uppsala, University of Tilburg, University of Montpellier, INRA Rennes (2018) UQAM, Université de Montréal, University of Ottawa (2017), Ecole Polytechnique, University of Helsinki (2016) Mines Paris Tech, Universities of Montpellier, Bordeaux, Oslo, Hamburg, Humboldt University Berlin (2015), University of Basel, University of Gothenburg (2014) University of Ottawa (2013), University of Montreal, Laval University, University of Montpellier, University of Nantes (2012) University of Gothenburg, University of Bern, ISI Delhi (2011),