

# BERGER Loïc

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## Current Position

**CNRS Researcher**, affiliated with LEM (Lille Economics and Management, CNRS UMR 9221), 2019–present

## Other appointments

**Associate Researcher**, Bocconi University, 2016–present

Member of the RISICO team (ERC StG) lead by Prof. Bosetti

**Associate Researcher** RFF-CMCC European Institute on Economics and the Environment (EIEE), and Euro-Mediterranean Center on Climate Change (CMCC), 2018–present

**Associate Researcher**, European Center for Advanced Research in Economics and Statistics (ECARES), 2016–present

## Past positions

**Assistant Professor**, IÉSEG School of Management and LEM, 2016–2018

**Associate Researcher** Fondazione Eni Enrico Mattei (FEEM), 2015–2018

**Environmental Economics Expert**, Belgian Federal Planning Bureau, 2015–2016

Expert in environmental and macro-economics, Prime Minister Services and Ministry of Economic Affairs of the Belgian government

**Researcher (post-doctoral position)**, FEEM and CMCC, 2013–2015

Research within the FP7 project: ADVANCE (Advanced model development and validation for the improved analysis of costs and impacts of mitigation policies)

**FNRS Research Fellow**, Belgian National Science Research Fund, 2008–2012

## Education

**Ph.D in Economics** – Toulouse School of Economics (TSE), Université Toulouse 1 Capitole (UT1), France, and ECARES, Université libre de Bruxelles (ULB), Belgium, *Summa Cum Laude*, received June 2012

Dissertation: Essays on the Economics of Risk and Uncertainty

Committee: Prof. Christian Gollier (co-chair), Prof. Philippe Weil (co-chair), Prof. Louis Eeckhoudt, Prof. Jean-Marc Tallon, Prof. Bram De Rock, Prof. David Alary

**Doctoral training programme** – ECARES, ULB, and TSE, UT1, received June 2009

Spring 2009: Visiting stay at University Pompeu Fabra, Barcelona Graduate School of Economics

**MSc in Economics** – ECARES, ULB, *Magna Cum Laude*, received June 2008

**MA + BA in Economics** (4-year program) – ULB, *Summa Cum Laude*, received June 2007

Final year dissertation: Social Security and Risk Sharing

## Miscellaneous

Sciences-Po certificate, “Politics and Economics of International Energy”, MOOC 2015

World Bank Institute Certificate, “Introduction to disaster risk management”, and “Emissions trading systems: using markets to promote low emissions development”, e-courses 2014

## Scientific/Academic honors and grants

Finalist of the INFORMS Decision-Analysis Society Publication Award of 2019, (best publication in decision analysis of the year 2017 for the paper “Managing the Risks of Catastrophic Climate Change under Model Uncertainty Aversion”)

Research grant ‘Appel projets LEM’ for project: “How Ambiguity distorts Prevention Decisions”, Lille Economie and Management – 2019-2020

Best Paper Presented Award 2014, Fondazione Eni Enrico Mattei, for the presentation “Managing the Risks of Catastrophic Climate Change under Model Uncertainty Aversion”

Travel and research grant for long-term stay in Toulouse School of Economics, Ministry of Education and Scientific Research, Federation Wallonia-Brussels – 2012 (Apr-Sept)

Doctoral scholarship, Belgian National Science Research Fund (FRS-FNRS) – 2010-2012

Doctoral scholarship, Belgian National Science Research Fund (FRS-FNRS) – 2008-2010

## Research projects

**INDUCED**, “Integrating Deep Uncertainty in Climate Change Modelling”, (ANR – French National Research Agency), *Principal Investigator*: Loïc Berger, 2018–2021. EUR: 248,000

**RISICO**, “Risk and Uncertainty in Developing and Implementing Climate change Policies”, (ERC stG – European Research Council), *Principal Investigator*: Valentina Bosetti, 2014–2019. EUR: 1,146,000

**ADVANCE**, “Advanced Model Development and Validation for Improved Analysis of Costs and Impacts of Mitigation Policies”, (European Union FP7), Collaborative project *Coordinator*: Potsdam Institute for Climate Impact Research (PIK), 2013–2016. EUR: 5,700,000

## Publications

### Journal articles

- [7] “Are Policymakers Ambiguity Averse?”, (with V. Bosetti), 2019, *The Economic Journal*, forthcoming
- [6] “Limited emission reductions from fuel subsidy removal except in energy-exporting regions”, (with J. Jewell, *et al.*), 2018, *Nature*, 554, 229–233
- [5] “Managing the Risks of Catastrophic Climate Change under Model Uncertainty Aversion”, (with J. Emmerling and M. Tavoni) 2017, *Management Science*, 63(3), 749–765
- [4] “COP21 Climate Negotiators’ Responses to Climate Model Forecasts”, (with V. Bosetti, E. Weber, D. Budescu, N. Liu, and M. Tavoni), 2017, *Nature Climate Change*, 7, 185–189
- [3] “The Impact of Ambiguity and Prudence on Prevention Decisions”, 2016, *Theory and Decision*, 80(3), 389–409
- [2] “Precautionary Saving and the Notion of Ambiguity Prudence”, 2014, *Economics Letters*, 23(2), 248–251

- [1] “Treatment decisions under ambiguity”, (with H. Bleichrodt and L. Eeckhoudt) 2013, *Journal of Health Economics*, 32(3), 559–569

## Working papers

- [10] “Economic Rationality: Investigating the links between uncertainty, complexity and sophistication”, (with I. Aydogan and V. Bosetti), 2019
- [9] “What is Partial Ambiguity”, 2019
- [8] “Risk, Ambiguity, and the Value of Diversification”, (with L. Eeckhoudt), 2019
- [7] “Three Layers of Uncertainty and the Role of Model Misspecification: an Experiment”, (with I. Aydogan, V. Bosetti and N. Liu), 2018, *IGIER Working Paper – No 623*
- [6] “Model Uncertainty in Climate Change Economics”, (with M. Marinacci), 2017, *IGIER Working Paper – No 616*
- [5] “Smooth Model Uncertainty and Ambiguity Aversion”, (with V. Bosetti), 2017
- [4] “Welfare as Equity Equivalents”, (with J. Emmerling), 2017, *FEEM Working Paper No. 14.2017*
- [3] “The WITCH 2016 Model - Documentation and Implementation of the Shared Socioeconomic Pathways”, (with J. Emmerling, *et al.*), 2016, *FEEM Working Paper No. 42.2016*
- [2] “Smooth Ambiguity Aversion in the Small and in the Large”, 2011, *Working Papers ECARES – 2011-20*
- [1] “Two-Period Self-Protection Models”, 2010, *mimeo*

## Reports and other publications

- [4] “Ambiguity and Sophistication: an Experiment”, *Der Aktuar*, 03.2018
- [3] “Macroeconomic impacts of the transition to a low carbon Belgium by 2050”, Report 11240, Federal Planning Bureau, April 2016
- [2] “Main results from taking into account microeconomic bottom-up measures in a global scenario”, Report 11198, Federal Planning Bureau, February 2016
- [1] “Impacts of the new EU Climate-Energy package on the Belgian economy”, Report 11153, Federal Planning Bureau, December 2015

## Refereeing activity

### Reviews

American Economic Review, Climatic Change, Econometrica, Economic Journal, Economics Letters, Energy Journal, Geneva Risk and Insurance Review, Journal of the Association of Environmental and Resource Economists, Journal of Economic Behavior and Organization, Journal of Economic Theory, Journal of Mathematical Economics, Journal of Risk and Insurance, Management Science, Mathematical Social Sciences, Theory and Decision.

### Grant reviewing for

ANR

## Invited seminars and conference presentations

### 2018

45th Annual Seminar of the European Group of Risk and Insurance Economists (EGRIE), Nuremberg, Sept. 2018; 6th World Congress of Environmental and Resource Economists (WCERE), Gothenburg, June, 2018; 31st International Congress of Actuaries (ICA), Berlin, June 2018; D-TEA, Paris, May 2018; Economics & Decision Sciences Seminar, HEC, Paris, Apr. 2018;

### 2017

Economics & Decision Sciences Seminar, HEC, Paris, Oct. 2017; 44th Annual Seminar of EGRIE, London, Sept. 2017; 32nd Annual Congress of the European Economic Association – 70th European Meeting of the Econometric Society, Lisbon, Aug. 2017; 23rd Annual Conference EAERE, Athens, June 2017; EM-Lyon, Lyon, March 2017;

### 2016

CEAR/MRIC Behavioral Insurance Workshop, Munich, Dec. 2016; 22nd Annual Conference EAERE, Zurich, June 2016 (accepted); Erasmus School of Economics, Behavioral Economics seminar, Rotterdam, March 2016; IESEG School of Management, Lille, March 2016; St Louis University, Brussels, March 2016; Joint IEFÉ-FEEM seminar, Bocconi University, Milan, Jan. 2016;

### 2015

8th Annual Meeting of the Integrated Assessment Modeling Consortium (IAMC), Potsdam, Nov. 2015; Workshop “Uncertainty and public decision”, Université Paris 8, Nov. 2015; 11th World Congress of the Econometric Society, Montreal, Aug. 2015; Our Common Future under Climate Change, International Scientific Conference, Paris, Jul. 2015 (accepted); 21st Annual Conference EAERE, Helsinki, June 2015; 34th edition of the International Energy Workshop (IEW), Abu Dhabi, June 2015 (accepted); 2nd Workshop “Equity and Risk in Integrated Assessment Models”, EquiRisk Project, Paris, May 2015; 3rd Annual Conference IAERE, Padova, Feb. 2015; Workshop “Uncertainty and public decision”, Université Paris X Nanterre, Jan. 2015; 3rd Convention of FEEM and CMCC fellows working on climate change and sustainable development economics, Venice, Nov. 2014

### 2014

41st Annual Seminar of EGRIE, St. Gallen, Sep. 2014; 29th Annual Congress of the European Economic Association – 68th European Meeting of the Econometric Society, Toulouse, Aug. 2014; Uncertainty in climate change modeling and policy, Expert Workshop of the FP7 ADVANCE project, Fondazione Eni Enrico Mattei, Milan, May 2014

### 2011-10

European Network for Training in Economics Research (ENTER) Jamboree – Tilburg University, Feb. 2011; Environmental and Natural Resources TSE Group Workshop – Toulouse School of Economics, Jan. 2011; ENTER Jamboree – Toulouse School of Economics, Feb. 2010

## Experience

### Teaching Activities

Advanced Microeconomics (2nd year undergrad.), Dept. of Economics and Quantitative Methods – IESEG, 2017 - 2019.

Industrial Economics (2nd year undergrad.), Dept. of Economics and Quantitative Methods – IESEG, 2016 - 2017.

Macroeconomics Indicators and Policies (1st year undergrad.), Dept. of Economics and Quantitative Methods – IESEG, 2016 - 2020.

Introduction to Microeconomics (1st year undergrad.), Dept. of Economics – ULB, (Prof. R. Foucart), 2015 - 2016.

Graduate Macroeconomics (Master 2, Ph.D), ECARES – ULB, (Prof. P. Weil), 2008 - 2010.

Mathcamp (Master, Ph.D), ECARES – ULB, 2009.

Mathematics (2nd year undergrad.), Dept. of Economics – ULB, (Prof. M. Gassner), 2007 - 2008.

Mathematics (1st year undergrad.), Dept. of Economics – ULB, (Prof. M. Gassner), 2007 - 2008.

## Miscellaneous

Representative of the scientific community (elected), University service, Dept. of Economics, SBS-EM, ULB, 2008–2009

President of the nonprofit association *The Green Challenge* <http://thegreenchallengeblog.wordpress.com/>, 2006–2009.

## Memberships and affiliations

American Economic Association (AEA), Econometric Society (ES), European Economic Association (EEA), European Association of Environmental and Resource Economists (EAERE), European Group of Risk and Insurance Economists (EGRIE), Royal Economic Society (RES),

## Personal Information & Skills

*Personal:* Born on the 29th of February 1984 in Brussels, Belgium (Belgian Citizenship)

*Languages:* French (native), English (fluent), Spanish & Dutch (intermediate)

*Software:* MATLAB, L<sup>A</sup>T<sub>E</sub>X editors, Mathematica, E-views, Dynare, AIM, GAMS