

# BERGER Loïc

Lille Economics and Management (LEM)

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## CURRENT POSITIONS

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

**Associate Professor**, Department of Economics and Quantitative Methods, IÉSEG School of Management, 2018–present

**Director of iRisk**, Research Center on Risk and Uncertainty, 2020–present

## OTHER APPOINTMENTS

**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 / EXPERIENCE

**Associate Researcher**, Bocconi University, 2016–2019

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

**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

**Habilitation à Diriger des Recherches (HDR)** – Université de Lille, France, 2021

**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 2012

*Title*: Essays on the Economics of Risk and Uncertainty

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

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

**M.Sc. in Economics** – ECARES, ULB, *Magna Cum Laude*, received 2008

**MA in Economics** – ULB, *Summa Cum Laude*, received 2007

*Final year dissertation:* Social Security and Risk Sharing

**BA in Economics** – ULB, received 2005

### *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

## PRIZES AND GRANTS

### Prizes

Paper selected as the Editor’s choice, “Model uncertainty in climate change economics: A review and proposed framework for future research”, *Environmental and Resource Economics*, 2020)

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”)

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

### Grants / Research Projects

#### *As Principal Investigator*

**INDUCED**, “Integrating Deep Uncertainty in Climate Change Modelling”, (ANR JCJC– French National Research Agency), 2018–2022. EUR: 248,000

Travel and research grant long stay, Ministry of Education and Scientific Research, Federation Wallonia-Brussels – 2012 (Apr-Sept), EUR: 4,000

Doctoral scholarship, National Science Research Fund (FRS–FNRS) – 2008-2012, EUR: 100,000

#### *As member*

**CLAM**, “Climate Ambiguity”, (STaRS – Region Hauts-de-France), *PI: Ilke Aydogan*, 2021–2023. EUR: 120,000

**IBEBACC**, “Identifying BEhavioral BARriers to tackling Climate Change: Myopia, Uncertainty or Collective Action?”, (I-SITE ULNE – Region Hauts-de-France), *PI: Thomas Epper*, 2021–2023. EUR: 95,000

**RISICO**, “Risk and Uncertainty in Developing and Implementing Climate change Policies”, (ERC stG – European Research Council), *PI: 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

Research grant ‘Appel à projets LEM’ for project, Lille Economie and Management – 2019-2020

**CLIMACT**, “Macroeconomic impacts of the low carbon transition in Belgium”, (Climate Change service of the DG Environment of the Federal Public Service Health, Food Chain Safety, and Environment, Belgium), *Coordinator*: Federal Planning Bureau, 2013–2016.

## PUBLICATIONS

### Journal articles

- [15] “What is Partial Ambiguity?”, 2021, *Economics and Philosophy*, in press
- [14] “Rational policymaking during a pandemic”, (with N. Berger, V. Bosetti, I. Gilboa, L.P. Hansen, C. Jarvis, M. Marinacci, R.D. Smith), 2021, *Proceedings of the National Academy of Sciences*, 118(4) e2012704118
- [13] “Risk, ambiguity, and the value of diversification”, (with L. Eeckhoudt), 2021, *Management Science*, in press
- [12] “Model Uncertainty in Climate Change Economics: A Review and Proposed Framework for Future Research”, (with M. Marinacci), 2020, *Environmental and Resource Economics*, 77, 475–501
- [11] “Welfare as Equity Equivalents”, (with J. Emmerling), 2020, *Journal of Economic Surveys*, 34(4), 727–752
- [10] “Characterizing ambiguity attitudes using model uncertainty”, (with V. Bosetti), 2020, *Journal of Economic Behavior & Organization*, 180, 621–637
- [9] “The transition of Belgium towards a low carbon society : A macroeconomic analysis fed by a participative approach”, (with T. Bréchet, J. Pestiaux, and V. van Steenberghe), 2020, *Energy Strategy Reviews*, 29, 100463.
- [8] “Reply to: Why fossil fuel producer subsidies matter”, (with J. Jewell, *et al.*), 2020, *Nature*, 578, E5–E7
- [7] “Are Policymakers Ambiguity Averse?”, (with V. Bosetti), 2020, *The Economic Journal*, 130, 331–355
- [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

- [5] “Three Layers of Uncertainty and the Role of Model Misspecification”, (with I. Aydogan, V. Bosetti and N. Liu), 2020, *iRisk Working Paper – No 2020-01*.
- [4] “Economic Rationality: Investigating the links between uncertainty, complexity and sophistication”, (with I. Aydogan and V. Bosetti), 2019,
- [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*

## Policy work

- “Economic Outlook 2016-2021”, Federal Planning Bureau, June 2016
- “Macroeconomic impacts of the low carbon transition in Belgium”, Final Report, Climact, October 2016
- “Macroeconomic impacts of the transition to a low carbon Belgium by 2050”, Report 11240, Federal Planning Bureau, April 2016
- “Main results from taking into account microeconomic bottom-up measures in a global scenario”, Report 11198, Federal Planning Bureau, February 2016
- “Impacts of the new EU Climate-Energy package on the Belgian economy”, Report 11153, Federal Planning Bureau, December 2015
- “Impact assessment of an increase in the social integration allowance”, Report Federal Planning Bureau, September 2015

## Columns, op-eds

- L. Berger, M. Marinacci, “Closing schools: how to make a rational decision?”, *The Conversation*, March 1, 2021
- L. Berger, “Fermeture des écoles: avec la crise sanitaire, comment prendre une décision rationnelle ?”, *La Tribune*, February 4, 2021
- L. Berger, “Fermeture des écoles: comment prendre une décision rationnelle ?”, *The Conversation*, January 28, 2021
- L. Berger, “La théorie de la décision comme modèle pour la construction de politiques rationnelles, en période de crise sanitaire”, *CNRS Info*, January 20, 2021
- L. Berger and J. Emmerling, “The nexus between economic inequality and social welfare”, *CMCC Article*, April 8, 2020
- L. Berger, “Décider en climat d’incertitude profonde, retour sur la COP21”, *The Conversation*, April 8, 2020
- L. Berger, “Uncertainty and policymaking: Evidence from COP21”, *Royal Economic Society Media Briefings*, March 3, 2020
- L. Berger and I. Aydogan, “Ambiguity and Sophistication: an Experiment”, *Der Aktuar*, March 2018
- L. Berger, “Taking uncertainty into account to better fight climate change”, *IESEG Expert opinions*, April 4, 2017
- L. Berger, “Climate change: new research highlights that policymakers adopt scientific information conservatively”, *IESEG Expert opinions*, January 3, 2017

## SERVICE TO THE PROFESSION

### Administrative duties

Elected member of the LEM council (2020-2025)

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

### Refereeing

American Economic Journal: Microeconomics, American Economic Review, Climatic Change, Econometrica, Economic Journal, Economics & Philosophy, Economics Letters, Energy Journal, Geneva Risk and Insurance Review, Journal of Behavioral and Experimental Economics, 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, Perspectives on Science, Social Science & Medicine, Theory and Decision.

### Evaluator of research proposals

2020-21 Evaluation panel, National Research Agency (ANR), panel Human-Environment Interaction

Various Expert advisor/reviewer for the European Research Council (ERC), ANR, Multidisciplinary Center for Infectious Diseases (MCID) Bern

### Seminars and conferences organization

Invited Session: “Uncertainty and Climate Change”, 69th Annual Meeting of the French Economic Association, Lille, June, 2021

Thematic Session: “Deep Uncertainty, Rationality and Climate Change Economics” (joint with D. Heyen and P. Koundouri), 6th World Congress of Environmental and Resource Economists, Gothenburg, June 2018

Thematic Session: “Deep Uncertainty and Climate Change Economics” (joint with P. Koundouri), 23rd Annual Conference of the European Association of Environmental and Resource Economists, Athens, June 2017

## INVITED SEMINARS AND CONFERENCE PRESENTATIONS

### 2021

CER-ETH Research Seminar, Zurich, Nov. 29; Behavioral Economics seminar Center for Environmental Economics (CEE-M), Montpellier, Oct. 2021; D-TEA, Paris, June 2021; Lancaster University, Feb. 2021; FETS (French Experimental Talks), online, Feb. 2021;

### 2020

Environmental Economics seminar, CEE-M, Montpellier, Nov. 2020 (online); Erasmus University, Rotterdam, Feb. 2020

### 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 IEFE-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

**TEACHING, STUDENT’S SUPERVISION, THESIS COMMITTEES****Teaching**

Environmental Economics and Climate Change (Master), Dept. of Economics and Quantitative Methods – IESEG, 2020–...

Understanding Business Cycles for Strategic Decisions (Master), Dept. of Economics and Quantitative Methods – IESEG, 2020–...

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, 2015–2016.

### ***Earlier teaching***

Teaching Assistant, Graduate Macroeconomics (Master 2, Ph.D), ECARES – ULB, 2008–2010.

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

Teaching Assistant, Mathematics (2nd year undergrad.), Dept. of Economics – ULB, 2007–2008.

Teaching Assistant, Mathematics (1st year undergrad.), Dept. of Economics – ULB, 2007–2008.

## **Supervision**

### ***Postdocs***

Ilke Aydogan, Vincent Theroude

### ***Ph.D.***

Philippe Colo (co-supervision)

### ***Master theses (year)***

Rayan Elatmani (2021), Clément Limare (2020), Aymeric Bricout (2019, laureate of the ICOR Award for the Best IESEG Master thesis), Julien Begoc (2018), Jean-Baptiste Morard (2017), Alice Felicite Oyono Ndome (2017)

## **PhD Committees**

Philippe Colo (PSE, 2021), Aysil Emirmahmutoglu (Erasmus University, 2020)

## **PERSONAL INFORMATION**

Born: February 29, 1984 in Brussels, Belgium

Citizenship: Belgian

Two children, born in 2017 and 2019

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

Last updated: November 29, 2021