

# BERGER Loïc

Lille Economics and Management (LEM)

3 rue de la digue

59000 Lille, France

Phone: +33 320 545 892

E-mail: loic.berger@cnrs.fr

Web: <https://loicberger.eu>

## CURRENT POSITIONS

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

**Full Professor**, Department of Economics and Quantitative Methods, IÉSEG School of Management, 2021–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

**Associate Professor**, IÉSEG School of Management, 2018–2021

**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**

Early Career Scholarly Achievement Award, *The American Risk and Insurance Association*, 2022

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***

**CAPABLE**, “Climate Policy Acceptability Economic Framework”, (European Union – Horizon Europe), Collaborative project, *Coordinator:* CMCC, 2023–2025. EUR: 3,000,000

**iRisk Worskhop**, “Decision-making under risk and uncertainty”, (AXA Research Fund, ValoRIS Region Hauts-de-France, UCL, LEM), 2022. EUR: 20,000

**LEM Research grants**, Lille Economie and Management – 2019-2023, EUR: 4,000

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

**Long stay travel and research grant**, 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***

**ENDURA**, “Environmental Decisions under Risk and Ambiguity”, (ANR JCJC– French National Research Agency), *PI:* Uyanga Turmunkh, 2021–2024. EUR: 218,000

**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

**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

- [16] “Three Layers of Uncertainty”, (with I. Aydogan, V. Bosetti and N. Liu), 2023, *Journal of the European Economic Association*, forthcoming
- [15] “What is Partial Ambiguity?”, 2022, *Economics & Philosophy*, 38, 206–220
- [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*, 67, 1639–1647
- [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

- [6] “Unravelling Ambiguity Aversion”, (with I. Aydogan and V. Bosetti), 2022, conditionally accepted *Review of Economics and Statistics*
- [5] “More Ambiguous or More Complex? An Investigation of Individual Preferences under Model Uncertainty”, (with I. Aydogan and V. Thérouté), 2022
- [4] “Breath, Love, Walk? The impact of mindfulness interventions on climate policy support and environmental attitudes”, (with J. Bayle-Cordier, R. Elatmani, and M. Tavoni), 2022
- [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*

## Work in progress

- [3] “Symmetry”, (with I. Aydogan and T. Epper)
- [2] “Experiments on reduction of compound lotteries with objective and subjective probabilities”, (with M. Abdellaoui and I. Aydogan)
- [1] “Model Ambiguity and Complexity: A meta-analysis of compound risk and ambiguity experiments”, (with I. Aydogan and V. Thérouté)

## 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 “Comment élaborer des politiques rationnelles et transparentes en présence d’incertitude?”, *The Conversation*, June 28, 2022
- L. Berger “Modelling uncertainty in climate economics”, *e-axes Forum Digest*, May, 2022
- 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)
- Member of the Recruiting Committee, IESEG (2018–2022)
- Member of the Recruiting Committee, Ecole Normale Supérieure (Paris), 2022
- Representative of the scientific community (elected), Dept. of Economics, SBS-EM, ULB, 2008–2009

### Refereeing

Econometrica, American Economic Review, American Economic Journal: Microeconomics, Climatic Change, Economic Journal, Economics & Philosophy, Economics Letters, Energy Journal, Environmental and Resource Economics, Geneva Risk and Insurance Review, Insurance: Mathematics and Economics, Journal of Behavioral and Experimental Economics, Journal of the Association of Environmental and Resource Economists, Journal of Business Venturing, Journal of Economic Behavior and Organization, Journal of Economic Theory, Journal of Health Economics, 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

## Conferences organization

iRisk Workshop: “Decision-making under risk and uncertainty”, a conference in honor of Prof. Louis Eeckhoudt, Lille, July, 2022

iRisk Inspiring Conference: “Decision-making under uncertainty in practice”, Lille, July, 2022

Invited Session: “Uncertainty and Climate Change”, 69th Annual Meeting of the French Economic Association (AFSE), 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

### 2022

Foundations of Utility and Risk Conference (FUR), Ghent University, Ghent, July 2022; iRisk Workshop Decision-making under risk and uncertainty, Lille, July 2022; University of St. Gallen, May 2022; RISLab Workshop, University Polytechnic Mohammed VI, Rabat, May 2022; University Paris-8, Mar. 2022; Paris School of Economics (PSE), Paris, Feb. 2022;

### 2021

CER-ETH Research Seminar, Zurich, Nov. 2021; Ghent University, Ghent, Oct. 2021; Behavioral Economics seminar Center for Environmental Economics (CEE-M), Montpellier, Oct. 2021; International Congress on Insurance: Mathematics and Economics, July 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, 2020–2021.

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 Théroude

### *Ph.D.*

Philippe Colo (co-supervision)

### *Master theses (year)*

Séverin Koszul (2022), Mathieu Laporte (2021), Charles Blondeau (2021), 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 (used to be good...)

Last updated: March 28, 2023