

# Antoine DECHEZLEPRÊTRE

## *Office information*

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## *Personal information*

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91B Torbay Road  
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DOB: 18/03/1983  
Citizenship: French  
Languages: French (native),  
English (fluent), German (fair)

## *Current positions*

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**Associate Professorial Research Fellow**, Grantham Research Institute on Climate Change and the Environment, London School of Economics

**Research Economist**, Productivity and Innovation Programme, Centre for Economic Performance, London School of Economics

**Research associate**, CERNA, Mines ParisTech

## *Past positions*

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- 2014-2015** Senior Research Fellow, Grantham Research Institute on Climate Change and the Environment, London School of Economics
- 2012-2014** Research Fellow, Grantham Research Institute on Climate Change and the Environment, London School of Economics
- 2010-2012** ESRC Postdoctoral Fellow, Grantham Research Institute on Climate Change and the Environment, London School of Economics
- 2009-2010** Research assistant (postdoctoral researcher), ESRC Centre for Climate Change Economics and Policy, London School of Economics
- 2006-2009** Doctoral researcher, CERNA Mines ParisTech
- 2008** Visiting research fellow, Empirical policy analysis unit, OECD Environment Directorate

## *Education*

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- 2009** **Ph.D. Economics**, Mines ParisTech, Paris, France  
Dissertation title: "Invention and international diffusion of climate change mitigation technologies: An empirical approach"
- 2005** **M.A. Environmental and Natural Resources Economics**, University of Paris 10 – Nanterre
- 2004** **B.A. Economics, École Normale Supérieure de Cachan** (Department of economics and management)

## ***Refereed Journal Publications***

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“The impacts of environmental regulations on competitiveness”, forthcoming (with Misato Sato). *Review of Environmental Economics and Policy*

“What role for climate negotiations on technology transfer?”, forthcoming (with Matthieu Glachant). *Climate Policy*.

“Carbon Taxes, Path Dependency and Directed Technical Change: Evidence from the Auto Industry”, 2016 (with Philippe Aghion, David Hemous, Ralf Martin, and John Van Reenen). *Journal of Political Economy* 124(1), 1-51.

“Environmental Policy and Directed Technological Change: Evidence from the European carbon market”, 2016 (with Raphael Cael). *Review of Economics and Statistics*, 98(1), 173–191.

“Invention and diffusion of water supply and water efficiency technologies: Insights from a global patent dataset”, 2015 (with Ivan Haščič and Nick Johnstone). *Water Economics and Policy* 1(4), 1550010

“Asymmetric industrial energy prices and international trade”, 2015 (with Misato Sato). *Energy Economics*, 52(S1), S130–S141

“Regulatory distance and the transfer of new environmentally sound technologies: Evidence from the automobile sector”, 2015 (with Richard Perkins and Eric Neumayer). *Research Policy*, 44, 244-257.

“Does foreign environmental policy influence domestic inventors? Evidence from the wind industry”, 2013 (with Matthieu Glachant), *Environmental and Resource Economics*, 58(3), 391 – 413.

“Who will win the green race? In search of environmental competitiveness and innovation”, 2013 (with Sam Fankhauser, Alex Bowen, Raphael Cael, David Grover, James Rydge and Misato Sato). *Global Environmental Change*, 23(5), 902 – 913.

“What Drives the International Transfer of Climate Change Mitigation Technologies? Empirical Evidence from Patent Data”, 2013 (with Matthieu Glachant and Yann Ménière). *Environmental and Resource Economics*, 54(2): 161 – 178.

“L'innovation technologique face au changement climatique : quelle est la position de la France ?”, 2013 (with Fabrice Carrère, Matthieu Glachant, Gilles Le Blanc, Yann Ménière, and Cécile Pot). *Economie et Prévision* 2013(1), 53–80.

“Invention and Transfer of Climate Change Mitigation Technologies: A Global Analysis”, 2011 (with Matthieu Glachant, Nick Johnstone, Ivan Hascic and Yann Ménière) *Review of Environmental Economics and Policy*, 5 (1), 109–130

“Technology transfer by CDM projects: a comparison of Brazil, China, India and Mexico”, 2009 (with Matthieu Glachant and Yann Ménière) *Energy Policy* 37, 703–711.

“The Clean Development Mechanism and the international diffusion of technologies: an empirical study”, 2008 (with Matthieu Glachant and Yann Ménière) *Energy Policy* 36, 1273–1283.

### ***Working papers***

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“Do tax incentives for research increase firm innovation? An RD design for R&D”, 2016 (with Elias Einiö, Ralf Martin, Trang Nguyen and John Van Reenen.) Grantham Research Institute on Climate Change and the Environment Working Paper No. 230

“Searching for carbon leaks in multinational companies” (with Caterina Gennaioli, Ralf Martin and Mirabelle Muûls). Grantham Research Institute on Climate Change and the Environment Working Paper No. 165

“Knowledge spillovers from clean and dirty technologies” (with Ralf Martin and Myra Mohnen). Grantham Research Institute on Climate Change and the Environment Working Paper No. 135

“Assessing the additionality of the Clean Development Mechanism: Quasi-experimental evidence from India” (with Raphael Calel, Jonathan Colmer, Caterina Gennaioli, Matthieu Glachant and Anna Schröder)

“International patent families: from application strategies to statistical indicators” (with Yann Ménière)

“International outsourcing, offshoring, and the direction of firm innovation” (with Damien Dussaux, David Hemous and Mirabelle Müuls)

“Temperature, mortality and income inequality: Evidence from Mexico” (with François Cohen)

### ***Reports, policy papers and non-academic publications***

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“Climate change policy, innovation and growth”, 2016 (with Ralf Martin and Samuela Bassi). Grantham Research Institute Policy Brief

“Climate Change Mitigation Technologies in Europe - evidence from patent and economic data”, 2015. Report for the European Patent Office

“Fiscal and Regulatory Instruments for Clean Technology Development in the European Union”, 2015 (with David Popp). Grantham Research Institute on Climate Change and the Environment Policy Paper

“Clean innovation and growth”, 2014 (with Ralf Martin and Myra Mohnen). Imperial College London Business School Policy Brief

“The impacts of environmental regulations on competitiveness”, 2014 (with Misato Sato). Grantham Research Institute on Climate Change and the Environment Policy Brief

“Staying with the Leaders: Europe's Path to a Successful Low-Carbon Economy”, 2014 (with Karsten Neuhoff, William Acworth, Oliver Sartor, Misato Sato, Susanne Droege, Stefan Schleicher and Anne Schopp). Climate Strategies Policy Brief

“Greening global value chains: innovation and the international diffusion of technologies and knowledge”, 2013 (with Matthieu Glachant, Damien Dussaux, and Yann Meniere). Policy Research Working Paper Series 6467, The World Bank.

“Climate change policies and the UK business sector: overview, impacts and suggestions for reform”, 2013 (with Samuela Bassi and Sam Fankhauser). Grantham Research Institute on Climate Change and the Environment Policy Paper.

“Promoting the International Transfer of Low-Carbon Technologies: Evidence and Policy Challenges”, 2013 (with Damien Dussaux, Matthieu Glachant, and Yann Ménière). *Report for the French Centre for Strategic Analysis*

“Fast-Tracking green patent applications”, 2013 (with Eric Lane). Bright Ideas, Fall 2013, 22(2). New York State Bar Association.

“Fast-Tracking green patent applications”, 2013. WIPO Magazine 2013(3).

“Fast-tracking Green Patent Applications: An Empirical Analysis”, 2012. *ICTSD Issue Paper No. 37*

“Le marché des brevets français: Une analyse quantitative des cessions à partir des inscriptions dans le Registre national et le Registre européen des brevets”, 2012 (with Yann Ménière and Henri Delcamp). *Report for the French patent office (INPI)*

“Wind Power: A Model of Successful Wind Policy? ”, 2012 (with Matthieu Glachant). World Energy Monitor, July 2012

“Low carbon innovation in the UK: Evidence from patent data”, 2010 (with Ralf Martin). *Report for the UK Committee on Climate Change*

“Invention and Transfer of Climate Change Mitigation Technologies on a Global Scale: A Study Drawing on Patent Data”, 2009 (with Matthieu Glachant, Nick Johnstone, Ivan Hascic and Yann Ménière). *Report for AFD (French Development Agency)*

“Does the CDM Foster International Transfer of Climate-Friendly Technologies?”. *Joint Implementation Quarterly*, april 2008

“The North-South transfer of Climate-Friendly Technologies through the Clean Development Mechanism”, 2007 (with Matthieu Glachant and Yann Ménière). *Report for ADEME (French Environment Protection Agency)*

### ***PhD supervision***

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Thomas Stoerk (4<sup>th</sup> year), Ara Jo (3<sup>rd</sup> year), Marta Talevi (2<sup>nd</sup> year), Connie Lee (1<sup>st</sup> year)

## ***Professional service***

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*Associate editor*, Resource and Energy Economics (2016-)

*Referee for*: Climate Policy, Climatic change, Energy Economics, Energy Journal, Energy Policy, Environment and Planning C, Environment and Resource Economics, Environmental Economics and Policy Studies, Environmental Research Letters, Industrial and Corporate Change, Journal of the Association of Environmental and Resource Economists, Journal of Environmental Economics and Management, Journal of Policy Analysis and Management, Research Policy, Resource and Energy Economics, Review of Economics and Statistics, Review of Policy Research, World Development

## ***Research grants***

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- 2016** European Commission (H2020)  
Enabling the Energy Union through understanding the drivers of individual and collective energy choices in Europe (ENABLE.EU)  
(with 11 other European institutions)  
LSE budget: €200,000
- 2014** European Investment Bank  
Policies to finance energy efficiency: An applied welfare assessment  
(with CIRED, Paris)  
LSE budget: €160,000
- 2013** Swiss National Science Foundation  
Innovation, Diffusion and Green Growth  
(with Graduate Institute, Geneva; ETH, Zurich; and EPFL, Lausanne)  
LSE budget: CHF 346,000 (£250,000)
- 2013** Global Green Growth Institute  
*'Green' Growth And The New Industrial Revolution*  
Responsible for the empirical analysis work package  
Work package budget: £250,000
- 2013** French Ministry of Environment, PREDIT programme  
(with CERNA Mines ParisTech)  
Budget: €57,000
- 2012** European Commission (FP7), ENTRACTE project (Economic iNsTRuments to Achieve Climate Targets in Europe)  
(with ZEW, Mannheim, Germany; PIK, Potsdam, Germany; Imperial College, London, UK; Tilburg Sustainability Center, Netherlands; FEEM, Milan, Italy; FCO, Oslo, Norway)  
LSE budget: €415,000
- 2012** European Commission (FP7), SIMPATIC project (Social IMPact Policy Analysis of Technological Innovation Challenges)  
Participation through Grantham Institute, Imperial College  
Budget: €168,000

- 2010-2012** ESRC Postdoctoral Fellowship  
Award: £200,000
- 2011** INPI (Institut National de la Propriété Intellectuelle)  
“The market for patents in France”  
Budget: €50,000
- 2010** French Environment Ministry  
“The impact of the European Union carbon market on low-carbon innovation”  
Budget: €50,000
- 2006-2009** ADEME (France’s Environmental Protection Agency) scholarship for PhD studies  
Award: €150,000

### ***Teaching experience***

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- 2011-2016** **London School of Economics**, London, UK  
Occasional lecturer and Seminar teacher  
Climate change: science, economics and policy (MSc)
- 2010-2011** **ISIGE** (Institut Supérieur d’Ingénierie et de Gestion de l’Environnement),  
**MINES ParisTech**, Paris, France  
Lecturer  
Innovation policy for environmental technologies (MSc)
- 2007-2009** **Ecole Nationale Supérieure des Techniques Avancées**, Paris, France  
Lecturer  
Introductory economics (3rd year of BA)
- 2006- 2007** **Sorbonne University**, Paris, France  
Assistant teacher  
Microeconomic theory (first year of BA)

### ***Honors, Scholarships & Fellowships***

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- 2010-2012** ESRC Postdoctoral Fellowship
- 2006-2009** ADEME (France’s Environmental Protection Agency) scholarship for PhD studies
- 2002-2005** Ecole Normale Supérieure de Cachan, Full Fellowship