

# Curriculum Vitae

## Clément BONNET

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### Personal Information

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Born: October 31<sup>st</sup> 1990, Neuilly-sur-Seine

Professional address: Faculty of Economics, University of Montpellier. Site Richter, Avenue Raymond Dugrand, 34960, Montpellier.

Email: clement.bonnet1@umontpellier.fr

### Career

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#### Current position

Assistant Professor, University of Montpellier – ART-Dev (UMR 5281)      Sept. 2019 - ...

#### Past positions

Postdoctoral researcher, IFP Energies Nouvelles      Feb. 2018 – Aug. 2019

Lecturer at IRIS SUP' in the Geopolitics and Prospective Master      Jan. 2019 – May 2019

Temporary research and teaching assistant, University Paris Nanterre      Sept. 2016 - Sept. 2017

Ph.D researcher, University of Paris Nanterre and      Sept. 2013 – Dec.

Climate Economics Chair (Paris Dauphine)	2016
Research internship, Climate Economics Chair (Paris Dauphine)	Apr. 2013 – Aug. 2013

## Education

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Ph.D candidate, Economics, University of Paris Nanterre	Feb. 2018 – Aug. 2019
Ph.D thesis “Innovation in low-carbon energy technologies : theoretical analyses and empirical assessments”, under the supervision of Professor Marc Baudry Defended on December 14, 2016	
MSc in Economics of Sustainable Development, Environment and Energy (second year), jointly accredited by Agro ParisTech, Ecole des Hautes Etudes en Sciences Sociales, Ecole des Ponts, University of Paris Nanterre and Ecole Polytechnique	Sept. 2012 – Sept 2013
MSc in Applied Economics (first year), major in international economics and public policies, accredited by University of Paris Nanterre	Sept. 2011 – Jun. 2012
Licence degree in International Economics, accredited by the University of Paris Nanterre	Sept. 2008 – Jun. 2011

## Publications in peer-reviewed journals

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Bonnet, C., Hache, E., Seck, G. S., Simoën, M., & Carcanague, S. (2019). Who's winning the low-carbon innovation race? An assessment of countries' leadership in renewable energy technologies. *International Economics* (Cat. 3 CNRS / Cat. B HCERES).

Hache, E., Seck, G. S., Simoën, M., Bonnet, C., & Carcanague, S. (2019). Critical raw materials and transportation sector electrification: A detailed bottom-up analysis in world transport. *Applied Energy*, 240, 6-25.

Baudry, M., & Bonnet, C. (2017). Demand-pull instruments and the development of wind power in Europe: a counterfactual analysis. *Environmental and Resource Economics*, 1-45 (Cat. 2 CNRS / Cat. A HCERES).

## Publications in journals

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Bonnet, C. (2019). Négociations climatiques: les enjeux du transfert de technologie. *Revue internationale et stratégique*, (1), 187-197.

## Book chapters

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Bonnet, C. & Renner, M. (2013). An overview of policy instruments for green innovation: the renewable energy case. Chapitre de l'ouvrage *Climate Economics in Progress 2013*.

## Policy briefs / Reports

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Bonnet, C., Carcanague, S., Hache, E., Seck, G.S. & Simoën, M. (2019). Vers une géopolitique de l'énergie plus complexe? Une analyse

tridimensionnelle de la transition énergétique. Policy Research Working paper GENERATE Janvier 2019.

Baudry, M. & Bonnet, C. (2015). Une analyse contrefactuelle du développement des énergies renouvelables – le cas de l'éolien. Information&Débat de la Chaire Economie du Climat, no.37.

Bonnet, C. (2014). Revue internationale des politiques de soutien aux énergies renouvelables : les enseignements du Danemark, de l'Allemagne et de la Chine. Information&Débat de la Chaire Economie du Climat, no.33.

## **Working papers**

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Bonnet, C., Hache, E., Seck, G.S., Simoën, M. & Carcanague, S. (2019). Copper at the crossroads: assessing the interactions of the low carbon energy transition with a non-ferrous and structural metal. Working paper GENERATE 2019-5.

Bonnet, C., Carcanague, S., Hache, E., Jabberi, A., Seck, G.S. & Simoën, M. (2019). The impact of Future Generation on Cement Demand: An Assessment based on Climate Scenarios. Working paper GENERATE 2019-2.

Bonnet, C., Carcanague, S., Hache, E., Seck, G.S. & Simoën, M. (2018). The nexus between climate negotiations and low-carbon innovation: the geopolitics of renewable energy patents. *EconomiX Working Papers*, 2018-45.

Bonnet, C. (2016). Measuring knowledge with patent data: an application to low-carbon energy technologies. *EconomiX Working Papers*, 2016-37.

Bonnet, C. (2016). Revisiting the optimal patent policy trade-off for environmental technologies. *EconomiX Working Papers*, 2016-34.

## In the media

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Cuivre : quel avenir pour ce métal essentiel à la transition énergétique ?

Article in The Conversation, with Emmanuel Hache, Gondia Sokhna Seck, Marine Simoën. Published Jul. 11, 2019

Géopolitique, le débat with Marie-France Chatin ([lien](#)). Radio France International, Apr. 27, 2019

Les renouvelables vont-elles créer une nouvelle dépendance au béton ?

Article in The Conversation, with Emmanuel Hache, Gondia Sokhna Seck, Marine Simoën. Published Mar. 31, 2019

Les matériaux de la transition énergétique : le lithium

Article in The Conversation, with Emmanuel Hache, Gondia Sokhna Seck, Marine Simoën. Published Oct. 24, 2018

Pourquoi parle-t-on de « criticité » des matériaux ?

Article in The Conversation, with Emmanuel Hache, Gondia Sokhna Seck, Marine Simoën. Published Oct. 23, 2018

## Teaching

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### Lectures

Economic geography, licence, second year, lecture

30 hours, University of Montpellier

Macroeconomics, licence, first year, lecture

30 hours, University of Montpellier

Geopolitics of innovation, master, second year, lecture  
6 hours, IRIS SUP'

### Tutorials

Public Economics, master, first year, tutorials  
30 hours, University of Montpellier

Macroeconomics, licence, first year, tutorials  
15 hours, University of Montpellier

Microeconomics, licence, first year, tutorials  
16 hours, University Paris Nanterre

Microeconomics, licence, second year, tutorials  
80 hours, University Paris Nanterre

Public Economics, licence, third year, tutorials  
48 hours, University Paris Nanterre

Industrial Economics, licence third year, tutorials  
96 hours, University Paris Nanterre

Economic policies, master, first year, tutorials  
16 hours, University Paris Nanterre

### **Referring**

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Energy policy, Environmental and Resources Economics, International  
Economics, Energy Journal.

## Skills and qualifications

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### Languages

French (mother tongue)

English (C1)

### Technical skills

- Software : Matlab, SAS, R, Excel
- Databases : MySQL, PATSTAT
- Economic modelling using the TIMES models generator (skills acquired through the Basic VEDA-TIMES training course that was held on the 14-16 May 2018 and delivered by Maurizio Gargiulo).

## Presentations at conferences and seminars

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Sixth annual conference of the French Association of Resources and Environmental Economists, Rennes 29-30th, Rennes (France). Presentation of the article "Copper at the crossroads: How the low-carbon transition will interact with an old and indispensable metal".

Seventh annual conference of the Italian Association of Resources and Environmental Economists, February 7th 2019, Udine (Italy). Presentation of the article "Copper at the crossroads: How the low-carbon transition will interact with an old and indispensable metal".

Comité pour les Métaux Stratégiques, November the 30th 2018. Presentation of the article "Copper at the crossroads: How the low-carbon transition will interact with an old and indispensable metal".

Energy Markets Workshop 2018, June the 18th 2018. Workshop organized by the IFP Energies Nouvelles. Rueil-Malmaison (France). Presentation of the article "Measuring knowledge with patent data: an application to low-

carbon energy technologies”.

6th FAERE thematic workshop on Green innovation, Paris (France), December the 5th and 6th 2016. Workshop co-organized by MINES Paristech, the Interdisciplinary Institute on Innovation and the French Association of Environmental and Resource Economists (FAERE). Presentation of the article “Measuring knowledge with patent data: an application to low-carbon energy technologies”.

What's new in the economics of innovation? Theory, empirics and public policy, Grenoble (France), December the 1st and 2nd 2016. Conference organized by GAEL, joint laboratory of INRA and the University of Grenoble Alpes. Presentation of the article “Measuring knowledge with patent data: an application to low-carbon energy technologies”.

The Second Annual Conference of the French Association of Environmental and Resource Economists, Toulouse (France), September the 10th and 11th 2015. Presentation of the article “Demand-pull instruments and the development of wind power in Europe: a counterfactual analysis”.

The Fifth Asian Conference on Sustainability, Energy and the Environment, Kobe (Japan), June the 14th 2015. Conference organized by the International Academic Forum (IAFOR). Presentation of the paper “Demand-pull instruments and the development of wind power in Europe: a counterfactual analysis”.

Sustainable Development, Environment, Energy and Publics Economics, Nanterre (France), April the 7th 2015. Seminar organized by the University of Paris Nanterre. Presentation of an early version of the article “Revisiting the optimal patent policy trade-off for environmental technologies”.

The Future of Law and Economics, Nanterre (France), March the 27th 2015. Conference co-organized by the Universities of Maastricht, Paris Nanterre, Paris II and Rotterdam. Presentation of an early version of the article



“Revisiting the optimal patent policy trade-off for environmental technologies”.

Friday Lunch Meetings, Paris (France), January the 16th 2015. Seminar organized by the Climate Economics Chair. Presentation of an early version of the article “Demand-pull instruments and the development of wind power in Europe: a counterfactual analysis”.

Transition énergétique et énergies renouvelables: quelles priorités pour l'innovation? Paris (France), April the 29th 2014. Conference co-organized by Fortum and the M.Sc in Economics of Sustainable Development, Environment and Energy, jointly accredited by Agro ParisTech, Ecole des Hautes Etudes en Sciences Sociales, Ecole des Ponts, University of Paris Nanterre and Ecole Polytechnique.

## **Research visit**

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Visiting research at the Centre for Energy and Environmental Policy Research, Beijing Institute of Technology. Month of December 2015. Collaboration with the research team of Professor Zhaohua WANG. Presentation of a statistical measure of the quality of patented inventions.