Xavier KOCH

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Citizenship: French

Curriculum Vitae

Education

2019-2022 **Ph.D. in Economics**, *Paris School of Economics*, Paris.
title: "The European Emissions Trading Scheme Efficiency to Reduce Carbon Emissions"
Supervisor: M. Chiroleu-Assouline
Thesis Committee: P. Gagnepain

2016-2019 **Magistère d'économie**, *University Paris I Panthéon Sorbonne*, Paris.
Three-year program in public policy in economics for the finest students of the university
Specialized in quantitative methods in economics

2017-2019 **Master's in Analysis and Policy in Economics**, *Paris School of Economics*, Paris.
The Master is offered jointly by EHESS, ENS, Ecole des Ponts ParisTech and University Paris I Panthéon Sorbonne.
Master thesis: "Synthetic Control Method for Comparative Case Study: The Effect of the EU-ETS on European Countries"

2014–2017 **Bachelor's in Economics**, *University of Paris I Panthéon Sorbonne*, Paris.

Research Interests

Environmental Economics, Technology Adoption, Policy Impact, Corporate Social Responsibility, Environmental Regulation, Industrial Organization

Works in Progress

2022 **"The impact of Environmental Corporate Social Responsibility on carbon intensity: Evidence from french manufacturing firms"**

This article evaluates the impact of Environmental Corporate Social Responsibility and pollution control investment on the carbon intensity of french manufacturing firms using a combination of several datasets of more than 1800 firms. The data encompass firms' energy consumption from (EACEI), Corporate Social Responsibility from (ENDD), Abatement Investment from (Antipol) and financial information from (FARE-Ficus) databases. I use an endogenous switching regression model to account for the potential endogeneity of CSR. I found a significant impact of Environmental Corporate Social Responsibility on the carbon intensity of firms' value-added but no significant impact from abatement investment.

2021 **"Adoption of Cleaner Technologies: Be on the Leading Edge or Wait for the Next Opportunity?" (co-authored with M. Chiroleu Assouline)**

We study the impact of pollution taxation on the adoption of new, less and less polluting technologies likely to appear successively with uncertainty. These technologies differ only in their fixed cost of adoption and emission rate per unit produced. We consider

the case of a monopoly controlled by a regulator who pre-commits to a tax level. We show that, depending on the respective fixed costs of adoption and the respective environmental benefits provided by each of the two new technologies, the regulator can cause a technological lock-in, through an excessively high level of tax if she has not foreseen the arrival of the second technology. On the other hand, if she anticipates it perfectly, she is able to push the firm to adopt it but may find it socially beneficial to prevent the firm from doing so.

Work Experiences

fev-july 2022	**Research Stay**, *ZEW*, Mannheim.
	Research Mobility with Robert Germeshausen on the relationship between abatement investment and Green R&D of french firms.
2021-2022	**Teaching Assistant**, *Paris I Panthéon-Sorbonne*, Paris.
	Teaching assistant for the Natural Resources and Climate Change course for 60 Master students
2020-2022	**Teaching Assistant**, *Paris I Panthéon-Sorbonne*, Paris.
	Teaching assistant for the Macroeconomics course for 160 third-year undergraduate students
2019-2020	**Teaching Assistant**, *Paris I Panthéon-Sorbonne*, Paris.
	Teaching assistant for the Microeconomics course for 130 second-year undergraduate students
2019	**Teaching Assistant**, *University Paris V Descartes*, Paris.
	Teaching assistant for the public policy course of 60 third-year undergraduate students
2018	**Private Tutor**, *University Paris I Panthéon Sorbonne*, Paris.
	Academic support to 15 freshman students in mathematics, statistics and economics.

Conference

2022	10th Mannheim Conference on Energy and the Environment hosted by ZEW Leibniz Centre for European Economic Research
2021	8th French Association of Environmental and Resource Economists Annual Conference
2021	26th Annual Conference of the European Association of Environmental and Resource Economists

Grants and Fellowships

2022	**Mobility Grant**, Paris School of Economics
2021	**Fund For Data access**, National Research Agency (ANR)
2019	**Full Doctoral Scholarship**, French Ministry of Research

Languages and Computer Skills

Languages	French (native), English (fluent), German (intermediate)
Software	R Studio, Stata, LaTeX, Mathematica, Microsoft Office

Miscellaneous

2019-2022	Communication chief of Paris School of Economics Alumni Association