

# CAMILLE HAINNAUX

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## RESEARCH INTERESTS

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Environmental Economics, Fiscal Policy, Macroeconomics, Heterogeneity.

## EDUCATION

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**Aix Marseille School of Economics** *2020 - Present*  
PhD Candidate  
Title: Environmental tax reforms under heterogeneity  
Supervisor: Thomas Seegmuller

**Paris School of Economics** *2018 - 2020*  
Master Analysis and Policy in Economics (APE), Honors

**Paris Sciences et Lettres** *2015 - 2018*  
Cycle Pluridisciplinaire d'Études Supérieures (CPES), High Honors  
Major in Economics, minor in Social Sciences.

## ACADEMIC ACTIVITIES

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**Organization**  
Co-organization of the AMSE Female afterworks *2022-2023*  
Co-organization of the AMSE PhD Seminar *2021-2023*  
Co-organization of the AMSE PhD Course "Selected topics on PhD and Research" *2021-2023*

**Referee Activities**  
Economics Bulletin

**Research stays**  
University of Amsterdam (UvA, ASE) *April-May 2023*  
*Hosted by Thomas Douenne*  
University of Konstanz *April 2022*

## CONFERENCES AND SEMINARS

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**Conferences & Workshops**  
LORDE Workshop (Paris), LAGV (Marseille), ASSET Conference (Lisbon) *2023*  
LORDE Workshop (Rouen), ICMAIF (Rethymno), SURED (Ascona), EAERE (Rimini),  
FAERE (Rouen) *2022*  
FIRE Workshop (Marseille), ASSET (Marseille) *2021*

## Seminars

AMSE PhD Seminar, CORE Brownbag Seminar (UCLouvain), SEEMS Seminar (UvA)

2023

AMSE PhD Seminar

2021, 2022

## WORKING PAPERS

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**Pollution versus inequality: tradeoffs for fiscal policy** (with T. Seegmuller), *Revise & Resubmit at Macroeconomic Dynamics*

*In this paper, we investigate the impact of redistribution and polluting commodity taxation on inequality and pollution in a dynamic setting. We build a two-sector Ramsey model with a green and a polluting good. Households are heterogeneous, which allows for income inequality, and have a level of subsistence consumption for the polluting commodity, modeled by non-homothetic preferences. Increasing the tax rate has a mixed effect depending on the level of subsistence consumption. A low level allows to tackle both the pollution and inequality issues. Under a high level of it, pollution increases: if inequality can be reduced through redistribution, taxation does not allow to solve for environmental degradation. Looking at the stability properties of the economy, a high subsistence level of polluting consumption leads to instability or indeterminacy of the steady-state, while the environmental externality plays a stabilizing role in the economy. This leaves room for taxation and redistribution: increasing the tax rate and redistributing more towards workers promotes the occurrence of indeterminacy and instability. Considering the subsistence level of consumption is hence of importance as it shapes the efficiency of the environmental fiscal policy in the long-run and stability of the economy in the shorter run.*

## WORK IN PROGRESS

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**Taxing incognito: optimal climate policy and inequality**

*This paper explores optimal alternatives to carbon taxation using already existing taxes in the economy and their impact on inequality. I build a two-sector Ramsey model with heterogeneous agents and a climate component, in which climate damages harm the final good sectors productivity and individual utility through temperature changes. I find that there exists an alternative to the standard carbon tax, both in a first- and second-best setting. Under this alternative, the carbon tax on emissions is replaced by a tax on total energy production and a subsidy to abatement. Studying the optimal Ramsey fiscal policy, all taxes become non-zero, for redistribution purposes and because energy consumption is not taxed as emissions are. Due to the general equilibrium impact of alternatives to carbon taxation, the fiscal alternative to carbon taxation affects inequality through several channels.*

**Educational policies towards the environment**

## TEACHING

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**Aix Marseille University**

October 2023 - Present

TEMPORARY LECTURER

Mathematics (undergraduate)

Macroeconomics (undergraduate)

**Aix Marseille University**

October 2020 - September 2023

TEACHING ASSISTANT

Mathematics (undergraduate, Fall 2020, Fall 2021, Fall 2022)

Macroeconomics (undergraduate, Spring 2021, Fall 2021, Fall 2022)

Travaux Encadrés (undergraduate, Spring 2021)

## **IPESUP**

ORAL EXAMINER IN ECONOMICS

Preparing students to national oral exams for French business schools

*January-April 2019*

## **SKILLS**

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Languages: French (native), English (fluent), German (intermediate)

Computing: Matlab, R

Other: L<sup>A</sup>T<sub>E</sub>X, MS Office

## **PERSONAL INFORMATION**

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French

Born Nov. 15, 1997

*Updated: December 2023*