

Marie YOUNG-BRUN

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FIELDS OF INTEREST

Climate and environmental economics, with a focus on distributional outcomes from both climate change impacts and mitigation policies.

WORKING PAPERS

Political support for carbon taxation: a voting model with vertical and horizontal inequality (*Job Market Paper*)

Carbon taxation is a flagship climate policy aimed at reducing greenhouse gas emissions efficiently. Yet, it fails to garner sufficient political support in many countries. This paper investigates the role of urban-rural inequalities in this lack of domestic support. I develop a model of majority voting over a carbon tax at a national level, with both income and urban-rural heterogeneity. Rural households are constrained to consume more necessary energy goods than urban households, which I capture with heterogeneous Stone-Geary utility. I calibrate the model with data for twenty European countries.

I find that the majority voting tax rate tends to be slightly lower than the optimal tax rate for a social planner giving the same weight to urban and rural households. However, support is much lower among rural households than urban, implying polarized support for the carbon tax. Carbon taxation generates revenues that can be redistributed to households. I find that lump-sum transfers render the tax and rebate scheme progressive without improving horizontal distributional impacts, and have a limited effect on political support.

Climate change damages on labor and capital, inequality, and the social cost of carbon with S. Feindt (MCC)

Climate change is poised to generate economic damages through many channels, in particular through shocks to the factors of production. We modify an integrated assessment model with sub-regional inequality and introduce direct impacts on capital and productive labor stocks, resulting in endogenously persistent damages. We model and calibrate the joint distribution of labor and capital income, to capture the role played by income composition heterogeneity in within-region inequality. For future inequality, consumption, and optimal policy, the income-elasticity of damages has a stronger impact than their persistence. When taking the non-proportionality of damages into account, inequality increases with labor productivity and capital damages, but labor impacts tend to have a stronger effect. In the most affected regions, these factor-specific damages can lead to dramatic consumption losses at the bottom of the distribution, resulting in a large increase in the social cost of carbon.

EDUCATION

- 2019 - PhD in ECONOMICS, *Paris 1 Panthéon-Sorbonne/ Paris School of Economics/ CIRED*
Subject: Distributional effects of climate policy
Supervisors: Stéphane ZUBER and Aurélie MÉJEAN
Committee: Katheline SCHUBERT and Fanny HENRIET

- 2017-2019 Master's Degree in ECONOMICS (with *highest honours*), *Paris School of Economics*
Thesis: "Adaptation, Altruism and the Long-term Climate Issue" | Advisor: Stéphane ZUBER

- 2017 BA in ECONOMICS *Paris 1 Panthéon-Sorbonne*

SKILLS

SOFTWARE	R, Julia, Python, LaTeX, Stata, Bash
LANGUAGES	French (mother tongue), English (mother tongue), Spanish (fluent), German (intermediary)

RELEVANT EXPERIENCE

Fall 2021 | **Visiting researcher**, MCC (*Mercator Research Institute on Global Commons and Climate Change*), Berlin
Hosting Scholar: Prof. Matthias KALKUHL.

PRESENTATIONS AT CONFERENCES AND SEMINARS

2022 | NAVIGATE-CIRED Summer School (Paris), Annual Conference of the European Association of Environmental and Resource Economics (EAERE, Rimini), Journées LAGV (Marseille), ACDD (Strasbourg), Doctorissimes (Paris)
2021 | MCC seminar (Berlin), PSE Regulation and Environment seminar (Paris), CIRED PhD seminar (Paris)
2020 | PSE PhD Informal Seminar (Paris)

TEACHING AND COMMUNITY SERVICE

Spring 2020 and 2021 | Teaching Assistant, 48h/year, Paris 1 Panthéon-Sorbonne
Undergraduate course "*Markets, Equilibrium and Optimum*", Prof E. del Mercato
2020 - | PhD student representative at the Doctoral School (ED465)

GRANTS AND AWARDS

2021 | PSE PhD International Mobility Grant
2019-2022 | 3-year CNRS scholarship linked to international research project [CHIPS](#) (*Climate Change Impacts and Policies in Heterogeneous Societies*)