

Mahaut de Villeneuve Bargemon

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Department of Economics, ThEMA
CY Cergy Paris Université & ESSEC Business School
Cergy, France

Research Fields. Environmental Economics • Theory of Incentives • Industrial Organization

EDUCATION

- **Cergy Paris Université & ESSEC Business School**
Ph.D. Candidate in Economics
◦ Supervisor: Wilfried Sand-Zantman
◦ Expected defense: January 2026

Sept. 2021 - Jan. 2026
Cergy, France
- **ESSEC Business School**
M. Sc. in Research

2021 - 2022
Cergy, France
- **Cergy Paris Université & ESSEC Business School**
Masters in Economic Analysis
◦ Master's thesis title: *The Coexistence between Regional Markets for Emission Permits*
◦ Supervision: Wilfried Sand-Zantman
◦ Distinction: Highest honors

2020 - 2021
Cergy, France
- **Sciences Po Saint-Germain**
Sciences Po degree • Economics & Finance Major
◦ Distinction: Valedictorian
◦ Exchange program: University of Miami, USA (Aug. 2018 - July 2019)

2016 - 2021
Saint-Germain-en-Laye, France

RESEARCH PROJECTS

- [1] **Investment Externalities in Insurance Markets under Incomplete Information**
- [2] **Green, Greener or Neutral? Signaling Environmental Quality under Incomplete Information**
Abstract: How can a firm signal the environmental quality of its product to consumers when its technology is unobservable? This paper analyzes a monopoly market where the firm can be either green, using a costly non-polluting technology that generates positive externalities; or neutral, relying on a standard technology. Consumers cannot directly observe the firm's environmental performance and derive a warm glow benefit from purchasing green products. Under incomplete information, we derive a separating equilibrium where the green firm uses either one instrument (price) or two instruments (price and effort to improve the greenness of its product) to signal its environmental quality to consumers. Signaling can result in an improvement in total welfare by increasing the public good benefit of green consumption. This highlights the role of effort as a potential dual-purpose instrument: mitigating informational asymmetries and improving social surplus. Additionally, we explore how regulations such as green effort subsidies influence this equilibrium.
- [3] **Carbon Border Adjustment Mechanisms under Asymmetric Information**
Abstract: The paper investigates the optimal design of a Carbon Border Adjustment Mechanism to mitigate carbon leakage created by the relocation of domestic firms to unregulated countries. Such regulation was proposed by the European Commission in July 2021. However, this system relies on firms self-reporting their emissions to determine the carbon tax to be paid on traded goods. Authorities are unlikely to be able to verify the veracity of such information, inducing firms to falsely report low emissions. With a theoretical model in which the regulator has incomplete information about firms' levels of pollution, we show that he must design a non-linear tax structure to distinguish between dirty and clean firms. In this setup, the "good type" (i.e. clean firm) is also the less cost-efficient, which constrains the regulator to reward dirty firms and impose a decrease in clean production compared to the optimal solution. This feature also uncovers an important friction between incentives: when firms can choose their technology of production, it is impossible for the regulator to reconcile both the incentive to become clean and a truth-revealing tax structure.

PRESENTATIONS

- **2025:** AFSE Annual Congress 2025 (ENS Paris-Saclay), EEA Annual Congress (Bordeaux), ThEMA Theoretical and Applied Economics Seminar, ESSEC Theory Reading Group
- **2024:** European Economics Association Congress (Rotterdam, Erasmus University), ADRES Conference ENS Paris-Saclay, ThEMA Theoretical and Applied Economics Seminar, ESSEC Student Research Seminar
- **2023:** SR 9th Climate Annual Conference, EAERE-ETH Winter School on Climate Policies, Innovation and International Competitiveness, ESSEC Student Research Seminar
- **2022:** ESSEC PhD Poster Session, CY Cergy Paris University PhD Seminar, ESSEC Student Research Seminar

TEACHING

- **Microeconomics 1** 2024, 2025
Sciences Po Saint-Germain • Undergraduate (year 1)
- **Environmental Economics** 2024
ESSEC • BBA 2nd Cycle
- **Economic Policy 2** 2023, 2024, 2025, 2026
Sciences Po Saint-Germain • Undergraduate (year 2)
- **Grand Oral Training Sessions & Jury** 2023, 2024
Sciences Po Saint-Germain • Masters
- **Microeconomics: Introduction** 2021, 2022
CY Cergy Paris Université • Undergraduate (year 1)
- **Descriptive Statistics** 2022
CY Cergy Paris Université • Undergraduate (year 1)

EXPERIENCE

- **Finance for Impact** March - July 2020
Junior Consultant (Intern) Remote
 - Public policy analysis and evaluation: assisted the evaluation of multilateral programs for the World Bank, with a focus on financial inclusion for MSMEs
 - Project design: response to calls for proposals
- **Herbert Wellness Ceneter** Jan - June 2019
Facility Assistant (Student Employee) Miami, FL, USA
- **Tropical Audubon Society** Jan - July 2019
Audubon Ambassador Program Assistant Coordinator (Intern) Miami, FL, USA
 - Program development and organization: coordination of the Audubon Ambassador Program for community engagement in South Florida's biodiversity conservation
- **The Explorers** May - July 2018
Executive Production Assistant (Intern) Paris, France

GRANTS AND AWARDS

- **Enseignant-Chercheur assimilé ATER contract** Sept. 2023 - July 2026
CY Cergy Paris Université
- **PhD Poster Session: Best Content Award** 2022
ESSEC Business School • Presentation: Carbon Border Adjustment Mechanisms under Asymmetric Information
- **Labex MME-DII Ph.D. Scholarship** 2021-2024
- **Labex MME-DII Masters Excellence Scholarship** 2020-2021

SERVICE

- **PhD Student rep.** 2023 - present
CYU Doctoral School representative
- **PhD Poster Session Organizer** 2022
ESSEC Business School
- **Student rep.** 2018-2021
Sciences Po Saint-Germain
- **Co-founder of the Ibis Audubon Student Conservation Chapter** 2018-2019
University of Miami
- **Secretary General of the Student Sports Organization** 2017-2018
Sciences Po Saint-Germain

PERSONAL

- **Citizenship:** French
- **Languages:** French (native), English (fluent), Italian (proficient)
- **Interests:** Competitive boxing (2x USIBA National Champion, Florida National Champion), classical music and literature enthusiast.

REFERENCES

1. **Wilfried Sand-Zantman**
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2. **Régis Renault**
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3. **Pierre Fleckinger**
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