

Moudachirou Oumarou

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Research Interests

Primary: Environmental Economics, Macroeconomics.

Secondary: Firm Dynamics, Climate Economics.

Education

Ph.D. candidate in Economics, University of Montreal, Canada	2018–May 2024 (Expected)
MSc in Statistics and Economics, Ecole Nationale de la Statistique et de l'Analyse Economique (ENSAE), summa cum laude , Senegal	2015–2018
BSc in Statistics, minor in Applied Economics, Ecole Nationale d'Economie Appliquée et de Management (ENEAM), summa cum laude , Benin	2012–2015

Research and Publications

Working Papers

- *Threshold-based-exemption in environmental regulation and firms dynamics* ([Long Abstract](#)) ([Draft](#))

I study the long-run effects of a threshold-based exemption in a carbon tax where firms with emissions below a certain threshold are excluded. I use an industry dynamic model featuring heterogeneous firms and a carbon tax to show that removing the exemption leads to 1.9% output gain due to resource reallocation toward productive firms.

- *Emission offset provision in environmental regulation and firm's size distribution*

What are the macroeconomics implications of using offset credits for regulatory compliance? As a perfect substitute to regular permits, OCs prices are privately negotiated and may lead a relative lower price in line with firms bargaining power. I document that 15-20% of firms comply with OCs, and there's a positive relationship between the share of firms and emission complying with OCs and firm size. Using a general equilibrium model of industry dynamics with heterogeneous firms, I show that allowing OCs as an option of compliance can be welfare enhancing if properly enforced with a TFP gain of 0.10%.

Work In Progress

- *Did referent credentials really help in the placement of Ph.D. candidates on the job market? Evidence with Covid-19.*

Policy Reports

Report for Quebec's Ministry of Finances: [Gestion optimale de la dette en réponse à la crise sanitaire de la Covid-19](#), with Guillaume Sublet, September 2020.

Report for The World Bank: [COVID-19 impacts on the food system in Guinea](#), with Ayala Wineman, Aisatou Ouedraogo and Nouhoum Traore, September 2021.

Experiences

- **Internship, African Development Bank, AfDB, Country Office of Burkina Faso,** 07/23 – 10/23
 - Analyzed fragility and resilience of G5 Sahel countries with a focus on Niger.
 - Assessed the quality of public institutions to sustain inclusive growth.
- **Consultancy, The World Bank, Poverty and Equity Global Practice, Washington DC,** 03/22 – 06/22
 - Provided policymakers in Guinea with actionable insights on the impact of inflation on poverty by processing and analyzing household data from multiple surveys.
 - Created a concise two-page policy note to simplify the sharing of critical findings.
- **Consultancy, The World Bank, Poverty and Equity Global Practice, Benin,** 03/21 – 09/21
 - Analyzed high-frequency phone survey data on Covid-19 in Benin, Guinea, and Togo to measure its effects on food insecurity and poverty, offering insights for targeted interventions.
 - Analyzed data from various sources to pinpoint key areas for poverty reduction in Benin through collaboration with a multidisciplinary team.
- **Research, Ministry of Finances of Quebec, Canada,** 06/20 – 08/20
 - Developed an award-winning policy proposal on post-lockdown debt management for Quebec, securing a 9000\$ research funding from the Ministry of Finance, jointly with Guillaume Sublet.
- **Research Assistant, Observatoire de la Francophonie Economique (OFE), Canada,** 01/20 – 04/20
 - Reviewed and edited of 100+ conference papers for an international conference on young and women entrepreneurship in French-speaking countries. Accepted papers published [here](#).
 - Analyzed opinions from participants from 20+ countries on employment issues in French-speaking countries through questionnaire design and data collection offering insights for OIF's future policy.
- **Intern, Central Bank, Banque Centrale des Etats de l'Afrique de l'Ouest, BCEAO,** 07/17 – 10/17

Students Supervision

- Fatimetou Lemine, and Radhy Hamoune, "[La diffusion du secteur informel dans les pays en développement : une approche en économétrie spatiale](#)", Master in economics and statistics, ENSAE, Senegal, 2021-2022.
- Daniel Baza, and Roosevelt Nguemo, "[Boom des fraudes de cryptomonnaies et stabilité financière : évidence au moyen des méthodes de Machine Learning](#)", Master in economics and statistics, ENSAE, Senegal, 2022 – 2023.

Teaching Fellows

- **Lecturer, University of Montreal, Canada**
 - **Introduction to Economics**, Fall (2020), Fall (2022), Fall (2023)
 - **Economic Data Analysis**, Winter (2021)
- **Teaching Assistant, University of Montreal, Canada**
 - **Introduction to Macroeconomics**, Summer (2019), Winter (2022), Summer (2022)
 - **Economics Principles**, Summer (2019), Fall (2020), Winter (2021), Winter (2023)
 - **Quantitative Methods I for Undergraduate**, Fall (2021), Fall (2023)
 - **Quantitative Methods II for Undergraduate**, Fall (2019), Summer (2021), Winter (2022)

Seminar and Conference Presentations

- Harvard Climate Economics Pipeline Workshop, Harvard university, USA June 2023
- CIREQ Interdisciplinary PhD Student Symposium on Climate Change, Canada June 2023
- 18th CIREQ Ph.D. Students' Conference, Canada May 2022
- 17th CIREQ Ph.D. Students' Conference, Canada June 2022
- Economics, Statistics, and Finance Ph.D. workshop in Quebec 2020, 2021, 2022, 2023
- Macro workshops group, University of Montreal 2019, 2020, 2021, 2022, 2023

Research Grants, Scholarships, & Fellowships

- PhD student travel grant, Harvard Climate Workshop 2023
- FRQSC - Doctoral Research Scholarship 2021-2023
- Fund of Quebec's Ministry of finance, 9000\$ 2020
- Ph.D. Fellowship of CIREQ and Department of Economics, University of Montreal 2018-2023
- MSc. in Statistics, Merit Scholarship, Government of Benin 2015-2018
- Full scholarship from Government of Benin 2012-2015
- Prize of Excellence received from the Association of Statisticians of Benin (ASSES Benin) 2014

Skills and Languages

- **Programming:** MATLAB, Python (advanced), STATA (advanced), \LaTeX
- **Languages:** English (proficiency), French (native)

Last updated: November 13, 2023