

# Moudachirou Oumarou

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## Summary

Economist specializing in public policy, macroeconomics, and environmental economics, with over four years of professional experience. I have a solid foundation in quantitative analysis and econometrics, focusing on using data to inform economic decision-making and policy development. Proficient in data collection, processing, statistical and economic analysis, as well as expertise in Computable General Equilibrium (CGE) and DSGE models.

## Relevant Skills

- **Data Collection and Surveys:** Web scraping, conducting surveys with ODK, Kobo Collect, CSPro
- **Data Processing and Analysis:** Python, Matlab, Stata, R, Eviews
- **Economic Analysis:** Cost-benefit analysis, economic forecasting, impact assessments, econometric modeling, policy-oriented research, report writing, strategic recommendations
- **Environmental and Climate Change Modeling:** Experience in developing macroeconomic-climate models with DSGE and CGE models
- **Communication:** Proven ability to present complex data and research findings effectively
- **Languages:** French (Native), English (Fluent)

## Professional Experience

- **Economist, Ministry of Finances of Quebec**, *Direction de la modélisation et des analyses d'impacts économiques et climatiques*, Quebec, Canada 09/24 – Now
  - Used the Fiscal CGE model (MEGFQ) to support policy decisions on Quebec's fiscal measures and actions.
  - Modeled climate change and environmental impacts with CGE models (MEGF-E, MEGFQ-CC) to provide evidence-based policy recommendations through comprehensive scenario analysis.
- **Consultant, African Development Bank**, *Country Office of Burkina Faso* 04/23 – 10/23
  - Conducted comprehensive analysis using data from multiple sources to assess the resilience and fragility of the G5 Sahel countries.
  - Authored a comprehensive report assessing the fragility of public institutions, influencing policy development in the region.
- **Consultant, The World Bank**, *Poverty and Equity Global Practice*, Washington DC & Benin 03/21 – 08/22
  - Analyzed high-frequency phone survey data on Covid-19 impacts in Benin, Guinea, and Togo.
  - Collaborated with multidisciplinary teams to integrate data from various sources, identifying priority areas for poverty reduction in Benin.
  - Processed and analyzed household data to deliver insights on the impact of inflation on poverty in Guinea.
- **Researcher, Ministry of Finances of Quebec**, Canada 05/20 – 10/20
  - Developed a policy proposal on post-lockdown debt management for Quebec, securing research funding.
  - Analyzed multisource data to calibrate a traditional fiscal policy model for Quebec, providing strategic recommendations to address the surge in government expenses due to COVID-19.
- **Research Assistant, Observatoire de la Francophonie Economique**, Canada 01/20 – 07/20
  - Reviewed and edited over 100 conference papers on young and women entrepreneurship in Francophone countries.
  - Designed questionnaires and collected data to analyze opinions on unemployment issues in French-speaking countries, providing insights for OIF's future policy.

## Education

- Ph.D. candidate in Economics, University of Montreal, Canada 09/2018 – 08/2024
- 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, Ecole Nationale d'Economie Appliquée et de Management (ENEAM), **summa cum laude**, Benin 2012 – 2015

## Research and Publications

- **Working Papers & Publications**
  - Waste trade and country specialization in recycled materials, with Sophie Bernard and Hassan Benchekroun.
  - Threshold-based-exemption in environmental regulation and aggregate productivity.
  - Offset credits for compliance in environmental regulation and firm's size distribution.
  - Did referents credential really help in the placement of Ph.D. candidates?: evidence with Covid-19.
  - Tax incentives for investment in abatement technology: implications for the labor share.
- **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, Aissatou Ouedraogo, and Nouhoum Traore, September 2021.
- **Student 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

- **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 Microeconomics**, Winter (2024)
  - **Econometrics**, Winter (2024)
  - **Introduction to Macroeconomics**, Summer (2019), Winter (2022), Summer (2022)
  - **Economics Principles**, Fall (2020), Winter (2021), Winter (2023)
  - **Quantitative Methods I for Economics**, Fall (2021), Fall (2023)
  - **Quantitative Methods II for Economics**, Fall (2019), Summer (2021), Winter (2022)
  - **Econometrics**, Winter (2024)
  - **Advanced Macroeconomics**, Summer (2024)

## 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
- 18<sup>th</sup> CIREQ Ph.D. Students' Conference, Canada May 2022
- 17<sup>th</sup> CIREQ Ph.D. Students' Conference, Canada June 2022
- Economics, Statistics, and Finance Ph.D. workshop in Quebec 2020, 2021, 2022, 2023, 2024
- Macro workshops group, University of Montreal 2019, 2020, 2021, 2022, 2023, 2024

## Research Grants, Scholarships, & Fellowships

- PhD student conference grant, Harvard Climate Workshop 2023
- FRQSC - Doctoral Research Scholarship, 45000\$ 2021-2023
- Fund of Quebec's Ministry of finance, 9000\$ 2020
- Ph.D. Fellowship of CIREQ and Department of Economics, University of Montreal, 18000\$/year 2018-2024
- 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

## References

Available up on request.