

MIAO DAI
McGill University
Department of Economics
855 Sherbrooke Street West
Montreal, QC, Canada H3A 2T7
Phone: (438) 630-9165
Email: miao.dai@mail.mcgill.ca
Website: www.miaodai.org

PLACEMENT DIRECTORS

Prof. Francisco Alvarez-Cuadrado	francisco.alvarez-cuadrado@mcgill.ca	(514) 398-8804
Prof. Rui Castro	rui.castro@mcgill.ca	(514) 398-1226

EDUCATION

Ph.D.	Economics, McGill University, expected May 2023
M.A.	Environmental, Resource and Development Economics, University of Winnipeg, 2016
B.Sc.	Resources, Environment and Urban Planning, Hubei Normal University, China, 2014

FIELDS OF SPECIALIZATION

Primary:	Environmental and Resource Economics
Secondary:	Industrial Organization, International Trade and Political Economy

DISSERTATION

Three Essays in Environmental and Resource Economics

Committee: Prof. Hassan Bencheikroun (Chair), Prof. Francesco Amodio, Prof. Laura Lasio

JOB MARKET PAPER

["Environmental lobbying on international trade in waste: Theory and evidence"](#) (sole-authored)

This paper investigates the effects of environmental lobbying on international trade in waste. I develop a theoretical framework that emphasizes the potential impact of green lobbies on environmental and trade policies and how North-to-South waste flows are affected through these policy channels. I show that the politically chosen policies are ambiguous relative to the socially optimal levels, depending on the heterogeneity of environmental preferences and the degree of pollution damages from waste. This in turn leads to ambiguous effects of environmental lobbying on the North-to-South waste trade. Further, I take the theory to empirics using panel data on the bilateral waste trade and the number of environmental NGOs (ENGOS) as a proxy for the environmental lobbying strength. I employ two different empirical strategies. The first one is a gravity specification that exploits within-country and cross-country variations. The results show that a 10% increase in the number of ENGOS in the North will lower North-to-South waste exports by 3.52%, whereas a similar increase in the South can reduce waste exports by 8.74%. The second one employs a triple-difference estimation strategy that exploits plausibly exogenous variation created by waste exports restriction following the introduction of the EU Waste Shipment Regulation in 2006. I find that countries with 10% more ENGOS tend to decrease their waste exports by 6.7% more after the implementation of the regulation. These findings thus suggest that strengthening ENGOS can represent an important strategy to reduce the international waste trade.

OTHER RESEARCH PAPERS

Dai, Miao, Hassan Benchechroun, and Ngo Van Long. "[On the profitability of cross-ownership in Cournot nonrenewable resource oligopolies: Stock size matters](#)." *Journal of Environmental Economics and Management* 111 (2022): 102597.

Benchechroun, Hassan, Miao Dai, and Ngo Van Long. "[The Impact of Cross-ownership on the Value of a Clean Technology in the Energy Market](#)." *Environmental Modeling & Assessment* (2022): 1-13.

“The role of pressure groups on international trade in waste: A gravity model approach”, work in progress

“Common ownership, corporate social responsibility, and climate change”, work in progress

TEACHING EXPERIENCE

Graduate Teaching Assistant, Max Bell School of Public Policy, McGill University

Global Macroeconomic Policy (Winter 2022, Winter 2021, Winter 2020)

Microeconomics for Public Policy (Fall 2021, Fall 2020, Fall 2019)

Teaching Assistant, Department of Economics, McGill University

Advanced Economic Theory - Honours (Fall 2022, Fall 2021)

Natural Resource Economics (Winter 2022)

Microeconomic Analysis and Applications (Summer 2021)

Microeconomic Theory (Winter 2021, Winter 2020, Winter 2018)

Political Economy of Trade Policy (Winter 2021, Winter 2019)

Industrial Organization (Fall 2020)

Public Sector Economics (Fall 2019, Fall 2018)

Mathematics for Economists (Summer 2019)

Economics of the Environment (Fall 2017)

Instructor, Department of Economics, University of Winnipeg

Intermediate Microeconomics (Spring 2017)

RESEARCH AND RELEVANT WORK EXPERIENCE

Research Assistant for Prof. Hassan Benchechroun, McGill University, 2018-2021

Research Assistant for Prof. Amrita Ray Chaudhuri and Soham Baksi, University of Winnipeg, 2015-2017

Research Assistant for Prof. Melanie O’Gorman and James Townsend, University of Winnipeg, and Public Interest Law Centre, 2016

GRANTS AND AWARDS

2018-2022 STP – Fonds de recherche du Québec Société et culture (FRQSC)

2022 STP – Social Sciences and Humanities Research Council of Canada (SSHRC)

2017-2020 Clifford C F Wong Fellowship – Economics

2019 14th Competition and Regulation European Summer School (CRESSE) Fellowship

2019 International Graduate Mobility Award

2017 Graduate Excellence Award in Economics

2016 Graduate Student of the Highest Distinction

CONFERENCE AND SEMINAR PRESENTATIONS

- 2022 The 32nd Annual Conference of Canadian Resource and Environmental Economics Association, 11th Congress of the Asian Association of Environmental and Resource Economics (AAERE), Xiangjiang River Forum in Economics, Finance and Management for Young Scholars – CEFMS, 12th International Economics and Finance Society (IEFS) China Annual Conference (invited), Chinese Economists Society (CES), Asia Pacific Trade Seminars (APTS), 8th Canadian PhD and Early Career Researcher Workshop in Environmental and Resource Economics, Canadian Economics Association (CEA), Australasian Trade Workshop (ATW), Montreal Environmental and Natural Resources Economics Workshop, McGill-CIREQ Lunch Seminar
- 2021 Montreal Environmental and Natural Resources Economics Workshop
- 2020 30th Annual Conference of Canadian Resource and Environmental Economics Association (CREEA)

PROFESSIONAL SERVICE

Referee for *Resource and Energy Economics*, *Applied Economics*
Discussant for CES, CEA, ATW, CREEA, CEFMS and AAERE

LANGUAGES

English (Fluent), Chinese (native)

COMPUTATIONAL SKILLS

Matlab, Stata, Mathematica

REFERENCES

Prof. Hassan Benchenkroun, McGill University, hassan.benchekroun@mcgill.ca , 514-398-4400
Prof. Francesco Amodio, McGill University, francesco.amodio@mcgill.ca , 514-398-2184
Prof. Laura Lasio, McGill University, laura.lasio@mcgill.ca , 514-398-2953
Prof. Christopher Ragan, McGill University, christopher.ragan@mcgill.ca , 514-398-5997