

Miao Dai

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Education

09/2017-Present

Ph.D. in Economics

McGill University, Montreal, QC

09/2014-06/2016

M.A. in Environmental, Resource and Development Economics

University of Winnipeg, Winnipeg, MB

09/2010-06/2014

B.Sc. in Resources, Environment and Urban Planning

Hubei Normal University, Hubei, China

Areas of Interest

- Environmental and Resource Economics
- Industrial Organization
- International Trade
- Political Economy

Publications

- Miao Dai, Hassan Bencheekroun, and Ngo Van Long, 2022. “On the profitability of cross-ownership in Cournot oligopolies: Stock size matters.” *Journal of Environmental Economics and Management*, Volume 111: 102597.

Working Papers

- Hassan Bencheekroun, Miao Dai, and Ngo Van Long, 2021. “The impact of cross-ownership on the value of a clean technology in the energy market.” Revised and Resubmitted to *Environmental Modelling and Assessment*.
- Miao Dai, 2022. “The political economy of trade in waste”. (Job market paper)

Work in Progress

- The role of pressure groups in international trade in waste: A gravity approach
- Common ownership in a nonrenewable market
- Solving Feedback Nash equilibria with more heterogenous players: using Markov chain approximation method

Research Experience

10/2018- 08/2021

Research Assistant, Department of Economics, McGill University
Supervisor: Hassan Bencheekroun, Ngo Van Long

- Replicated all the Excel examples and reproduced them using Matlab code, and provided solutions to all the exercise problems using both Matlab and Excel for the textbook of *Resource Economics* (Jon M. Conrad, 2010)

- Conducted literature search in international trade in trash, collecting data and constructing indices for the strength of different pressure groups, and exploring the role of pressure groups in determining trade patterns in trash
- Conducted literature search in resource markets characterized by the presence of large players, e.g., oil and OPEC and other countries; diamond and De Beers; Phosphate, etc.

03/2015- 04/2017

Research Assistant, Department of Economics, University of Winnipeg
Supervisor: Amrita Ray Chaudhuri, Soham Baksi, Manish Pandey

- Conducted panel data regressions to analyze how the composition of electricity affects the electricity prices
- Collected the data for the composition of electricity generation (i.e., hydro, coal, nuclear, renewables, gas, etc.) and the electricity prices for residential, commercial and industrial users by each Canadian province for each year
- Updated the latest data for CO₂ emissions and IEA to support Dr. Ray Chaudhuri's Skywalk Lecture at the Millennium Library, Winnipeg: "International Agreements on Climate Change: Insights from Economics"
- Documented data sources for empirical papers such as *Cross-Border Trade in Electricity* by Werner Antweiler, *The Timing of the Skew: Facts on Canada's Energy Trade* by Trevor Tombe, re-did and verified the analyses
- Tabulated hourly minimum wages for both Canada and US for the past decades

01/2016- 02/2016

Research Assistant, Public Interest Law Centre/University of Winnipeg
Supervisor: Melanie O'Gorman, James Townsend

- Summarized the open-ended questions and assisted with summary statistics of results from community surveys conducted in Manitoba Keewatinowi Okimakanak(MKO) communities regarding their access to Internet in preparation for a hearing at the CRTC

09/2013- 11/2013

Intern, Shayang Construction Management Bureau of South-to-North Water Diversion Project

- Assisted in cost-benefit analysis for the large-scale water diversion project
- Analyzed the local tourism industry and made recommendations on how to improve and promote tourism into the area after construction was completed

Teaching Experience

Instructor, Department of Economics, University of Winnipeg

- Intermediate Microeconomics (Spring 2017)

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

- Natural Resource Economics (Winter 2022)
- Advanced Economic Theory - Honours (Fall 2021)
- 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)

Lab Demonstrator/Teaching Assistant, Department of Economics, University of Winnipeg

- Intermediate Microeconomics (Winter 2017, Fall 2016, Winter 2016, Fall 2015)
- Introduction to Macroeconomics (Winter 2017)
- Modern Microeconomics for Economics and Business (Winter 2017)
- Mathematical Economics (Fall 2016)
- Introduction to Microeconomics (Fall 2016)
- Introduction to Economic Theory (Fall 2015)

Volunteer Experience

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| 09/2021- | <p>Buddy Volunteer, International Student Service, McGill University</p> <ul style="list-style-type: none"> • Help new international students to make a smooth transition to life at McGill |
| 01-04/2015, 2016 | <p>Income Tax Preparer, Community Volunteer Income Tax Program</p> <ul style="list-style-type: none"> • Helped international students and low-income residents to prepare their tax documents, accurately entered data into UFile to successfully refund their income taxes |
| 02/2010-07/2010 | <p>Census Assistant, 6th National Population Census Program, National Bureau of Statistics (People's Republic of China)</p> <ul style="list-style-type: none"> • Distributed and collected questionnaires, investigated and checked the reality, and data entry |

Presentation at Conferences

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| 01/2022-04/2022 | Montreal Environmental and Natural Resources Economics Workshop |
| 01/2021-04/2021 | Montreal Environmental and Natural Resources Economics Workshop |
| 10/2020-12/2020 | 30th Annual Conference – Canadian Resource and Environmental Economics Association (CREEA) |

Refereeing Activities

Resource and Energy Economics

Administrative Activity

2019-2021 Post-Graduate Students' Society (PGSS) – Economics Delegate

Fellowships, Honors, 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)
2021 STP – Prof. Long – James McGill Professors
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

Computational Skills

Matlab, Stata, Mathematica

Languages

English (Fluent), Chinese (native), French (basic)

References

Professor Hassan Benchenkroun

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Professor Laura Lasio

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Professor Christopher Ragan

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