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## **PLACEMENT DIRECTORS**

Prof. Rui Castro	<a href="mailto:rui.castro@mcgill.ca">rui.castro@mcgill.ca</a>	(514) 398-1226
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## **EDUCATION**

Ph.D.	Economics, McGill University, expected May 2025
M.A.	Economics, Xiamen University, China, 2018
B.A.	Chemistry (Major) and Economics (Minor), Xiamen University, China, 2015

## **FIELDS OF SPECIALIZATION**

Primary: Health Economics  
Secondary: Energy Economics

## **DISSERTATION**

*Three Essays on Health and Energy Economics*  
Committee: Prof. Erin Strumpf, Prof. Franque Grimard, Prof. Jill Baumgartner

## **JOB MARKET PAPER**

“Household Heating Fuel Choice and Behaviours: Evidence from Rural China”, Oct 2024, 68 pages

The Clean Heating Policy, aimed at encouraging households in Northern China to transition from coal to electricity or gas, marks a pivotal effort in combating air pollution. However, the effectiveness of household fuel substitution policies in fuel choices and heating behaviors has seldom been thoroughly assessed. This paper utilizes data from three rounds of a detailed panel dataset collected during the Coal to Electricity program in Beijing to explore the dynamics of heating fuel choice and behavior among rural households. By using a difference-in-differences (DID) approach, my analysis reveals a significant yet partial transition from coal to electricity among affected households and a spontaneous transition towards electricity in areas not directly targeted by the policy. I also study determinants influencing households' fuel choices and behaviors in the absence of coal ban policy. Employing a correlated random effects model to account for unobserved individual heterogeneity, I identify key variables such as fuel prices, household income, education, marital status, and house area that markedly influence these choices. Notable differences are observed in the determinants affecting fuel choices and usage patterns, particularly in the roles of coal prices and income. These findings indicate that choosing fuel types and determining usage levels might be governed by separate household decision-making processes.

## **OTHER RESEARCH PAPERS**

“How Do Early-Life Shocks Interact with Subsequent Human Capital Investment? Evidence From Indonesia”, work in progress

“The Impact of Clean Heating Policy on Sleep Patterns in Rural China”, work in progress

## **TEACHING EXPERIENCE**

Teaching Assistant, Mathematics for Economists, McGill University, Summer 2022 and Summer 2023  
Teaching Assistant, Political Economy of Trade Policy, McGill University, Fall 2024  
Teaching Assistant, Microeconomic Analysis and Application, McGill University, Winter 2024  
Teaching Assistant, Labour Markets and Wages, McGill University, Fall 2023  
Teaching Assistant, Macroeconomic Policy, McGill University, Winter 2023  
Teaching Assistant, Macroeconomic Analysis and Application, McGill University, Winter 2021, Winter 2022, Fall 2023  
Teaching Assistant, Microeconomic Theory, McGill University, Fall 2018 to Fall 2021, Fall 2022

## **GRANTS AND AWARDS**

Kyoichi Kageyama Award, McGill University, 2020-2021  
MITACS Training Awards, McGill University, 2020-2021  
Graduate Excellence Award, McGill University, 2019-2021  
McCall MacBain Fellowship, McGill University, 2018-2019  
The Triple-A Student Award, Xiamen University, 2017  
National Scholarship for Graduate Students, Xiamen University, 2016  
Xue Ye Scholarship, Xiamen University, 2015-2017

## **CONFERENCE AND SEMINAR PRESENTATIONS**

CIREQ Lunch Seminar, McGill University, March 2024  
BHET Research Group Meeting, McGill University, Feb 2024

## **LANGUAGES**

Mandarin Chinese (native), English (fluent)

## **COMPUTATIONAL SKILLS**

Stata, Matlab, Python, R, LaTeX

## **REFERENCES**

Prof. Erin Strumpf	McGill University	<a href="mailto:erin.strumpf@mcgill.ca">erin.strumpf@mcgill.ca</a>	514-398-2880
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