

## **JEAN-FRANÇOIS FOURNEL**

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### **PLACEMENT DIRECTORS (McGill)**

Prof. Francesco Amodio	<a href="mailto:francesco.amodio@mcgill.ca">francesco.amodio@mcgill.ca</a>	(514) 398-2184
Prof. Francisco Alvarez-Cuadrado	<a href="mailto:francisco.alvarez-cuadrado@mcgill.ca">francisco.alvarez-cuadrado@mcgill.ca</a>	(514) 398-8804

### **EDUCATION**

Ph.D. Economics, McGill University, 2022  
M.A. Economics, McGill University, 2016  
B.Mus. Jazz Performance (Saxophone), McGill University, 2005

### **FIELDS OF SPECIALIZATION**

Primary: Industrial Organization, Environmental Economics  
Secondary: Econometrics

### **DISSERTATION**

*“Essays on the Economics of Electric Vehicle Markets: Effect of Subsidies on Adoption, Infrastructure Development, and Environmental Outcomes”*  
Committee: Prof. Laura Lasio (Chair), Prof. Hassan Bencheekroun, Prof. John W. Galbraith

### **JOB MARKET PAPER**

*“Electric Vehicle Subsidies: Cost-Effectiveness and Emission Reductions”*  
(Best Paper Award, 50<sup>th</sup> EARIE Conference, Rome, 2023)

This paper studies the environmental performance of electric vehicle subsidy programs in Canada. I leverage changes in the provincial-level subsidies to study the short-run impact of subsidies on sales and charging station deployment using a natural experiment setting. My findings suggest that subsidies are very effective at increasing electric vehicle adoption, but failed to induce additional charging station installations in the short-run. To evaluate the environmental impact of subsidies, I rely on a structural estimation of the demand for cars and the supply of charging stations. My results suggest that rebate programs led to an increase in adoption of 93%, and an increase in the size of the charging station network by 19%. I take these results as additional evidence of weak network effects. I propose a unified framework to conduct cost-benefit analysis. I estimate the marginal abatement cost of CO<sub>2</sub> emissions to be between \$325 and \$453 per ton, well above conventional estimates of the social cost of carbon. Part of the reason behind these high estimated costs is that half of the subsidies went to infra-marginal consumers who would have purchased an electric vehicle whether or not rebates are available. Finally, I evaluate the performance of two alternative policies: an income threshold on eligibility and a cash for clunker program. I find that the additional emission reductions tied to the removal of clunkers are crucial in improving the environmental performance of rebate programs.

## WORK IN PROGRESS

“Directed Search in the Housing Market with Public Valuations”, with Jean-Louis Barnwell, Working Paper.

“To Discriminate or Not to Discriminate: Targeted Pricing and the Value of Past Purchase Histories”, with Isis Durrmeyer and Mario Samano, in progress.

“The Future of the Car Dealing Industry”, with Xavier d’Haultfœuille, Isis Durrmeyer, and Alessandro Iaria, in progress.

## CURRENT OCCUPATION

Post-doctoral Researcher, Toulouse School of Economics, 2022-2025

## TEACHING EXPERIENCE

Instructor, Economic Statistics - Honours (joint with Prof. John W. Galbraith), Winter 2018

Instructor, Mathematics for Economists (graduate), Summer 2020

Teaching Assistant, Introduction to Economic Theory - Honours, Fall 2015 - Winter 2017, Winter 2019

Teaching Assistant, Economic Statistics - Honours, Fall 2017

Teaching Assistant, Industrial Organization, Fall 2018

Teaching Assistant, Econometrics 1 - Honours, Fall 2019, Fall 2020, Fall 2021

Teaching Assistant, Econometrics 1 (graduate), Fall 2020

Teaching Assistant, Econometrics 2 (graduate), Winter 2020, Winter 2021

Teaching Assistant, Applied Cross-Sectional Methods (graduate), Winter 2020

## GRANTS AND AWARDS

2023	Best Paper Award, 50 <sup>th</sup> EARIE Conference, Rome, for “ <i>Electric Vehicle Subsidies: Cost-Effectiveness and Emission Reductions</i> ”
2019-2022	FRQSC Doctoral Research Scholarship
2019-2021	SSHRC Doctoral Research Scholarship
2019	Graduate Mobility Award
2016-2020	McGill University Doctoral Fellowship

## LANGUAGES

French (native), English (fluent)

## REFERENCES (McGill)

Professor Laura Lasio  
McGill University  
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Professor John W. Galbraith  
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