

## **JEAN-FRANCOIS FURNEL**

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### **PLACEMENT DIRECTORS**

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### **EDUCATION**

Ph.D. Economics, McGill University, expected August 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**

*Three Essays on Industrial Organization*  
Committee: Prof. Laura Lasio (Chair), Prof. Hassan Bencheikroun, Prof. John W. Galbraith

### **JOB MARKET PAPER**

*“Electric Cars and Network Effects: Are Subsidies the Right Tool for Reducing Emissions?”*

This paper studies the impact of the Roulez Vert program, which subsidized new purchases of electric vehicles in the province of Quebec, Canada. I study the impact of the program on sales, firms' pricing behavior, and charging station deployment, and estimate the cost of avoiding carbon emissions or replacing traditional vehicles with electric ones using subsidies. To evaluate the impact of subsidies, I rely on a structural model in which demand follows a nested logit specification and supply is determined by multi-product firms competing on prices. I augment the model to incorporate charging station deployment. Specifically, I allow for county-level governments to choose where and how many stations to install in their region to provide charging capacity to EV owners. I find that the program explains 45.7% of electric vehicle sales and 27.7% of charging stations installed between 2012 and 2018. I estimate an average abatement cost of \$1,345 and a marginal abatement cost of \$1,541 per ton of CO<sub>2</sub>, well above conventional estimates of the social cost of carbon emissions. Part of the reason behind these high estimated costs is that 62.1% of the additional electric vehicle sales originated from consumers that would have chosen the outside option if no subsidy was available, suggesting that the policy did not target the right consumers.

## OTHER RESEARCH PAPERS

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

“Environmental Regulation in the Car Market with Consumer Heterogeneity: Countering the Rise of the SUV”, in progress

## TEACHING EXPERIENCE

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

Instructor, Mathematics for Economists (graduate), Summer 2020

Teaching Assistant, Intro to Econ 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

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

Professor Laura Lasio

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Professor John W. Galbraith

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