THOMAS HIERONS

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ADDRESS

Princeton University Department of Economics Julis Romo Rabinowitz Building Princeton, NJ 08544

ACADEMIC POSITIONS

IES Postdoctoral Fellow, Princeton University

2025-present

EDUCATION

Ph.D. Economics, University of Chicago

2025

M.Sc. Economics (with Distinction), London School of Economics

2016

BSc. Econometrics and Mathematical Economics (with First Class Honors), London School of Economics 2015

Erasmus Exchange Program, Sciences Po., Paris

2012-2013

REFERENCES

Professor Esteban Rossi-Hansberg University of Chicago Kenneth C. Griffin Department of Economics earossih@uchicago.edu Professor Rodrigo Adão University of Chicago Booth School of Business rodrigo.adao@chicagobooth.edu

Professor Alexander Torgovitsky University of Chicago Kenneth C. Griffin Department of Economics torgovitsky@uchicago.edu

RESEARCH AND TEACHING FIELDS

Primary: Urban and Spatial Economics, International Trade

Secondary: Econometrics

WORKING PAPERS

Spreading the Jam: Optimal Congestion Pricing in General Equilibrium

Abstract: Road traffic leads to an externality: drivers do not account for the time cost they impose on others. In this paper, I study the potential gains from optimal congestion pricing. I develop an urban general equilibrium model which features residential and workplace location, travel mode, and

route choices with congestion. The attractiveness of workplaces and residences is also determined endogenously. I provide conditions for the uniqueness of both the competitive equilibrium and the first best planner's problem and characterize the tax instruments needed to decentralize it. I show how the model can be solved with arbitrary taxes, including congestion toll zones of the kind often implemented in practice. I estimate the model's parameters in an application to New York City. I find that the first best tax policy would realize gains of \$0.77 per person per day or a total of \$21.7 million per week. Over a third of the gains from optimal congestion pricing at the individual link level can be achieved by a congestion zone that covers only lower Manhattan. I decompose these gains along different margins of adjustment, finding that mode choice is a key driver of the results with driver route choice and general equilibrium location choices also playing a non-negligible role.

WORK IN PROGRESS

Survival of the Fit Test: Can Experiments Validate Structural Models? (with Omkar Katta and Alexander Torgovitsky)

McFadden's Missing Models: Zeros in Discrete Choice

RESEARCH EXPERIENCE

Pre-Doctoral Research Assistant, University of Oxford for Professor Anthony Venables 2017–2019

AWARDS, SCHOLARSHIPS, AND GRANTS

Rosen Memorial Fellowship Award, University of Chicago	2024-2025
George S. Tolley Prize for Best Third Year Paper, University of Chicago	2022
Social Sciences Division Fellowship, University of Chicago	2019-2024

TEACHING EXPERIENCE

Math Camp (graduate)	TA	Fall 2023
Econometrics II- Honors (undergraduate)	TA for Prof. Torgovitsky	$Spring\ 2023$
Econometrics (undergraduate)	TA for Prof. Tabord-Meehan	$Winter\ 2023$
Applied Regression Analysis (MBA)	TA for Prof. Farrell	Fall 2022
Econometrics (undergraduate)	TA for Prof. Tabord-Meehan	$Spring \ 2022$
Econometrics II- Honors (undergraduate)	TA for Prof. Torgovitsky	Fall 2021

ADDITIONAL INFORMATION

Citizenship United Kingdom, France

Programming Julia, Python, R, Stata, MATLAB

Languages English (Native), French (Fluent), Turkish (Intermediate)