MANUEL FELIPE ROJAS ECHEVERRI

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EDUCATION

The Pennsylvania State University

2018 - expected May 2024

Ph.D. in Economics

Universidad del Rosario

2014-2017

M.A. in Economics

Universidad Nacional de Colombia

2009-2014

B.A. in Economics

FIELDS OF SPECIALIZATION

Primary: Industrial Organization, Public Economics

Secondary: Applied Microeconomics, Regulation Economics, Econometrics

JOB MARKET PAPER

Distributional Effects of a Nonlinear Price Scheme in Public Utilities Job Market Paper

Nonlinear pricing schemes are the primary instruments that policymakers use to ensure access to public utilities for low-income households while penalizing high-income households for overconsumption. In this paper, I evaluate the effectiveness of these pricing schemes and introduce a novel methodology to analyze their impact on the distribution of consumption and welfare in public utilities, with a specific focus on the case of water utilities in Bogotá, Colombia. To achieve this, I employ a combination of reduced-form and structural model techniques, leveraging Bogotá's unique context, where households have historically encountered diverse pricing schemes, including the introduction of additional nonlinear elements in the pricing scheme through a 2012 policy change. Notably, the results reveal that the nonlinear pricing scheme exhibits regressive characteristics, benefiting wealthier households with higher consumption levels and more significant welfare gains. Furthermore, the evidence suggests that income effects, driven by changes in the virtual incomes of households, are the primary driving force behind these outcomes. These findings underscore the necessity for an alternative approach to achieving more significant equity in the distribution of benefits within public utilities.

OTHER PAPERS

Competitive Bundling and Switching Costs

Work in Progress

In this project, I examine the implications of second-degree price discrimination on competition and switching costs. I estimate a demand model for bundles by employing a random utility discrete choice model. The challenge lies in the fact that firms use price discrimination to tailor their offerings to different market segments and employ bundling as a competitive strategy. To address this challenge, I leverage the variation in my data, which covers multiple locations and socioeconomic variables, enabling a comprehensive analysis. This research offers insights into a complex issue, addresses theoretical gaps, and evaluates various policy scenarios.

The Water Vital Minimum: Analyzing the Bogotá Free Water Policy Replication Paper With Juan Miquel Gallego, Juan Daniel Oviedo, and Carlos Sepulveda.

Szabo (2014) analyzes the effects of a free water allowance in South Africa equal to the World Health Organization's recommended minimum. The author demonstrates that the free allowance acts as a lump-sum subsidy without significantly affecting water consumption. Furthermore, it is shown that it is possible to reallocate the current subsidy to form an optimal tariff without needing a free allowance. In this study, we revisit Szabo's analysis using data from Bogotá, Colombia, where a similar policy was implemented. First, employing the methodology proposed by the author, we successfully replicate the original results on consumption, revealing a minimal impact. Second, we reexamine the calculation of the price elasticities for water, identifying lower price elasticities. Third, we replicate the exercise of creating an optimal tariff that increases social welfare.

TEACHING EXPERIENCE

The Pennsylvania State University	
Graduate Teaching Assistant: Economic Mergers (Undergraduate)	2023
Graduate Teaching Assistant: Sports Economics (Undergraduate)	2022
Graduate Teaching Assistant: Environmental Economics (Undergraduate)	2020-2022
Graduate Teaching Assistant: Intermediate Microeconomics (Undergraduate)	2020
Universidad del Rosario	
Teaching Assistant: Theory of Regulation and Informality (Undergraduate)	2017
Teaching Assistant: Mathematical Economics (Graduate)	2016

RESEARCH AND RELEVANT WORK EXPERIENCE

The Pennsylvania State University	
Research Assistant: Prof. Karl Schurter	Summer 2021, Summer 2022, Summer 2023
Leico Consultores	
Economic Analyst	2017-2018
Universidad del Rosario	
Research Assistant: Prof. Juan Daniel Oviedo	2014-2017

GRANTS AND AWARDS

Science Ministry of Colombia Scholarship	2020-2022
Banco de la República de Colombia Scholarship	2018-2022
COLFUTURO Scholarship	2018-2020

CONFERENCE AND SEMINAR PRESENTATIONS

IAES 96th Conference (Philadelphia, PA)	2023

LANGUAGES

Spanish (Native), English (Fluent).

COMPUTATIONAL SKILLS

IATEX, Julia, Matlab, Stata, R

REFERENCES

Joris Pinkse Professor in Economics Department of Economics Pennsylvania State University +1 (814) 863 0508 joris@psu.edu Karl Schurter Assistant Professor of Economics Department of Economics Pennsylvania State University +1 (814) 865 2201 kschurter@psu.edu Michael Gechter Assistant Professor of Economics Department of Economics Pennsylvania State University. +1 (814) 867 3308 mdg5396@psu.edu