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EDUCATION

The Pennsylvania State University

Ph.D. in Economics

2018 - expected May 2024

Universidad del Rosario

M.A. in Economics

2014-2017

Universidad Nacional de Colombia

B.A. in Economics

2009-2014

FIELDS OF SPECIALIZATION

Primary: Industrial Organization, Public Economics

Secondary: Applied Microeconomics, Regulation Economics

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 Cost in Telecommunications Markets

Work in Progress

The Water Vital Minimum: Analyzing the Bogotá Free Water Policy

Replication Paper

With: Juan Miguel Gallego, Juan Daniel Oviedo, and Carlos Sepulveda.

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

L^AT_EX, Julia, Matlab, Stata, R

REFERENCES

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