Stephan Sagl

Pennsylvania State University Department of Economics 420 Kern Graduate Building University Park, PA 16802

Email: stephan.sagl@psu.edu Homepage: https://ssagl.github.io

EDUCATION

Ph.D. Economics, Pennsylvania State University

2018 –

MSc Economics, University of Vienna

2015 – 2017

BSc Economics, University of Vienna

2012 – 2015

FIELDS OF INTEREST

Industrial Organization, Applied Microeconomics

WORKING PAPERS

1. "Dispersion, Discrimination, and the Price of your Pickup", October 2023. (Job Market Paper)

Abstract: Price discrimination is a controversial and pervasive feature of the automobile market. Using repeat purchase data on pickup trucks, fully controlling for product heterogeneity, I establish that individual consumers pay persistently high or persistently low prices across vehicle purchases. On average, women and Hispanics pay higher prices for the same pickup, but this explains less than 0.5% of price dispersion. These results suggest that persistent consumer preferences beyond coarse demographics are known by dealers and used for pricing. Using a structural model, I study the role of information about consumers available to firms in the welfare effects of price discrimination. To do so, I overcome a missing data problem common to settings with transaction data: consumer-specific prices of non-chosen alternatives are unobservable. I solve this problem by developing and estimating a novel discrete choice model of supply and demand that recovers unobserved consumer-specific prices and consumer-specific price sensitivity. Compared to uniform pricing, price discrimination increases profits and total welfare but, on average, harms consumers. Women and Hispanics lose most from price discrimination. However, price discrimination only on broad demographic groups, including gender, race, and income, is not profitable relative to uniform pricing. This suggests that information beyond demographic groups drives the profitability of price discrimination.

2. "Conformant and Efficient Estimation of Discrete Choice Demand Models", May 2023. with Paul Grieco, Charles Murry, and Joris Pinkse.

R&R at Econometrica

Abstract: We propose a conformant likelihood-based estimator with exogeneity restrictions (CLER) for random coefficients discrete choice demand models that is applicable in a broad range of data settings. It combines the likelihoods of two mixed logit estimators—one for consumer level data, and one for product level data—with product level exogeneity restrictions. Our estimator is both efficient and conformant: its rates of convergence will be the fastest possible given the variation available in the data. The researcher does not need to pre-test or adjust the estimator and the inference procedure is valid across a wide variety of scenarios. Moreover, it can be tractably applied to large datasets. We illustrate the features of our estimator by comparing it to alternatives in the literature.

RESEARCH EXPERIENCE

Research Assistant, Pennsylvania State University

2018 –

Research Assistant, Oesterreichische Nationalbank (Austria's Central Bank)

2016

TEACHING EXPERIENCE

Teaching Assistant, University of Vienna 2015 – 2016 Introductory Microeconomics (Philipp Schmidt-Dengler)

SEMINARS

2023 (including scheduled) – Penn State, Penn State (Ag. Econ)

AWARDS AND HONORS

RGSO Dissertation Fellowship, Pennsylvania State University

2022

Rosenberg Scholarship, Pennsylvania State University

2021

Performance Scholarship, University of Vienna

2012 – 2017

LANGUAGES AND SKILLS

Languages: English (fluent), German (native).

Computer: Julia, MATLAB, Python, R, Stata.

REFERENCES

Prof. Paul Grieco (committee chair)
Department of Economics
Pennsylvania State University
+1 (814) 867-3310
paul.grieco@psu.edu

Prof. Joris Pinkse Department of Economics Pennsylvania State University +1 (814) 933-2194 joris@psu.edu

Last updated: October 24, 2023

Prof. Mark Roberts
Department of Economics
Pennsylvania State University
+1 (814) 863-1535
mroberts@psu.edu