

OFFICE CONTACT INFORMATION

Department of Economics Indiana University 100 S Woodlawn Ave Bloomington, IN 47405

PERSONAL INFORMATION

Citizenship: Chinese Phone: +1 (812) 391-9942

cw102@iu.edu

https://chaowangcw.github.io/

IU PLACEMENT OFFICER

Prof. Volodymyr Lugovskyy vlugovsk@iu.edu +1 (812) 856-4594

IU PLACEMENT ADMINISTATOR

Ms. Elizabeth Bolyard econgrad@iu.edu +1 (812) 855-8453

EDUCATION

Indiana University, Bloomington | Ph.D in Economics (STEM)

DISSERTATION: "Essays in Industrial Organization"

Xi'an Jiaotong University (China) | MA in Economics

Xi'an Jiaotong University (China) | BA in Economics

2018-2024 (expected)

2016-2018 2012-2016

REFERENCES

Ruli Xiao, Associate Professor (Committee Co-Chair)

Department of Economics, Indiana University, Bloomington, Indiana 47405-7104

Phone: +1 (812) 855-3213. Email: rulixiao@indiana.edu

Stefan Weiergraeber, Assistant Professor (Committee Co-Chair)

Department of Economics, Indiana University, Bloomington, Indiana 47405-7104

Phone: +1 (812) 855-2146. Email: sweiergr@iu.edu

Andrew Butters, Associate Professor

Kelley School of Business, Indiana University, Bloomington, Indiana 47405-7104

Phone: +1 (812) 855-5768. Email: rabutter@indiana.edu

Gustavo Torrens, Associate Professor (Teaching Reference)

Department of Economics, Indiana University, Bloomington, Indiana 47405-7104

Phone: +1 (812) 856-8131. Email: gtorrens@indiana.edu

RESEARCH FIELDS

Primary field: Industrial Organization

Secondary fields: Applied Microeconomics; Applied Microeconometrics.

JOB MARKET PAPER

Subsidizing Electric Vehicles among Heterogeneous Consumers: Does Vehicle Holding Matter?

Abstract: In the United States, most households can access one or more vehicles. I study the impact of household vehicle holding on a household's vehicle purchasing decisions and the benefit of taking into account such an impact on EV subsidy policy. I develop a structural model of household automobile decisions while allowing for the willingness to pay for the new vehicle to vary with the current vehicle holdings. Combining market sales data and survey information in California, I identify and estimate the preference heterogeneity induced by vehicle holding and quantify its welfare implications. Households without vehicles exhibit a higher vehicle purchase propensity, while households with EVs are more likely to acquire additional EVs compared to households with gasoline vehicles. Counterfactual simulations indicate that redistributing subsidy amounts across households with different vehicle holdings could increase EV sales by 8% without augmenting subsidy expenditure, at the cost of a 0.1% reduction in consumer surplus. In contrast, achieving the same level of EV sales under the current subsidy scheme would require an additional \$81.6 million in the government's subsidy budget.

Identification of Dynamic Discrete Choice Models with Hyperbolic Discounting Using a Terminating Action with Ruli Xiao and Stefan Weiergraeber (Revise-and-resubmit at Journal of Business & Economic Statistics)

Abstract: We study the identification of dynamic discrete choice models with hyperbolic discounting using a terminating action. We provide novel identification results for both sophisticated and naive agents' discount factors and their utilities in a finite horizon framework under the assumption of a stationary flow utility. In contrast to existing identification strategies we do not require to observe the final period for the sophisticated agent. Moreover, we avoid normalizing the flow utility of a reference action for both the sophisticated and the naive agent. We propose two simple estimators and show that they perform well in simulations.

Identification of hyperbolic discount factor in dynamic discrete choice model with multiple terminating actions

Abstract: This paper studies identification of quasi-hyperbolic discount dynamic discrete choice models in both finite and infinite horizons, exploring the unique features of the presence of multiple terminating actions. Under economically meaningful exclusion restrictions, the identification of discount factors is characterized by polynomial moment conditions. The presence of multiple terminating actions greatly reduces the complication of the identification and also helps relax the restrictions imposed on the flow utility function. This paper also examines the impact of estimating the 'underlying' hyperbolic discounting model as the prevalent exponential discount model. I find that such misspecification could lead to misleading policy implications.

WORKING IN PROGRESS

Vintage Models in Demand for Automobiles

New Technology, Environmental Impact and Time Preference: Evidence from Electric Vehicle Adoption

TEACHING EXPERIENCE

TEACHING EXI EIGENCE	
Associate Instructor (Full Teaching Load):	
\cdot ECON-B 251 Fundamentals of Economics for Business I (Micro)	Fall 2021
\cdot ECON-E 251 Fundamentals of Economics I (Micro)	Fall 2020
Teaching Assistant:	
\cdot ECON-E 521 Theory of Price and Markets I (PhD level)	Fall 2022
· ECON-E 305 Money and Banking	Summer 2022
\cdot ECON-E 251 Fundamentals of Economics I (Micro)	Summer 2022
\cdot ECON-E 370 Statistical Analysis for Business and Economics	Spring 2022
\cdot ECON-E 252 Fundamentals of Economics II (Macro)	Summer 2021
\cdot ECON-E 322 Intermediate Macroeconomics Theory	Summer 2021
\cdot ECON-B 251 Fundamentals of Economics for Business I (Micro)	Spring 2021
· ECON-E 327 Game Theory	Spring 2019
· ECON-E 201 Intro to Microeconomics	Summer 2020 & Spring 2020 & Fall 2019 & Fall 2018

SELECTED CONFERENCE PRESENTATIONS

"Portfolio Considerations in Automobile Purchases: EV versus Gasoline?", Midwest Econometrics Group Annual Conference 2022, Missouri Valley Economic Association 2022.

"Identification of Dynamic Discrete Choice Models with Hyperbolic Discounting Using a Terminating Action", The 16th International Symposium on Econometric Theory and Applications: SETA 2022 (Online), The Institute for Advanced Economic Research (IAER) (Online) 2022.

"Identification of hyperbolic discount factor in dynamic discrete choice model with multiple terminating actions", Hoosier Economics Conference at Indiana University (Virtual) 2021.

OTHER PROFESSIONAL EXPERIENCE

Research Assistant for Ruli Xiao, Department of Economics, Indiana University	Summer 2023 - Present
HONORS AND AWARDS	
Lloyd Orr Dissertation Fellowship, Indiana University	2023
Travel Award, IU College of Arts and Sciences	2022 - 2023
Doctoral Assistantship, Indiana University	2018 - 2023
Top-up Fellowship, Indiana University	2018
SKILLS	

Languages: English (Fluent), Mandarin Chinese (Native)Technical Skills: Matlab, R, Python, Stata, SQL, Git