ABDOLLAH FARHOODI

214 David Kinley Hall, 1407 W Gregory Dr., Urbana, IL, 61801 217-819-7584 \$\diamonds\$ farhood2@illinois.edu \$\diamonds\$ farhoodi.github.io

EDUCATION

University of Illinois at Urbana-Champaign

2014— May 2020 (Expected)

Ph.D. Economics

Committee: Dan Bernhardt (Chair), David Albouy, Jorge Lemus,

George Deltas, Guillermo Marshall

Sharif University of Technology, Iran

2012

M.Sc. Economics

University of Tehran, Iran

2009

B.Sc. Electrical Engineering (Control)

RESEARCH INTERESTS

Urban Economics, Industrial Organization, Welfare Economics, Causal Machine Learning

WORKING PAPERS

Welfare Estimation in Peer-to-Peer Markets with Heterogeneous Agents: The Case of Airbnb (Job Market Paper)

Advisor: Dan Bernhardt

Abstract: Peer-to-peer (P2P) markets allow small suppliers with limited capital to enter markets that were traditionally occupied by large firms. This feature provides a potential decentralized distribution of opportunities. To investigate the distribution of welfare and opportunities among agents, I study the Airbnb short-term rental market, as a successful P2P marketplace. I use daily panel data of Airbnb rentals in Chicago from August 2014 through April 2017 and apply an individual-level multinomial logit model to estimate the distribution of consumer and producer surpluses across differentiated agents and over time. I show that properties in less advantaged neighborhoods benefit the least from having access to the Airbnb market, even though these properties feature weaker competitive pressure and lower opportunity costs of renting. My results show a disproportionate concentration of welfare in neighborhoods with higher incomes and house prices. I also show evidence of a higher surplus for low-income property owners, especially for those who live in high-demand areas.

Introducing a Micro-Founded Index of Consumption Welfare: A Big Data Approach

Evaluating Regulations in Peer-to-Peer Markets: A Synthetic Control Approach to Study Santa Monica Ban on Aribnb (with Peter Christensen)

RELEVANT EXPERIENCE

International Monetary Fund

• Fund Internship Program

Summer-2018

University of Illinois

• Research Assistant to Dan Bernhardt, Yufeng Wu, and Jorge Lemus

2015-2018

• Big-Data in Environmental Economics and Policy Research Group

2018-current

TEACHING EXPERIENCE

Instructor: University of Illinois

Applied Machine Learning in Economics

Spring 2019 - current

Topics: Statistical Learning with R, Shrinkage Methods, Random Forest, Bagging, Boosting, SVM, Neural Networks, Causal Inference with ML

Outstanding rating (top 5 percent) in the "List of Teachers Ranked as Excellent by Their Students"

Teaching Assistant: (Undergraduate-Level)	University of Illinois
Introduction to Microeconomics	2016-2018
Intermediate Microeconomics	2014-2015

Teaching Assistant:(Graduate-Level)Sharif University of Technology, IranGame Theory2012Econometrics I2010, 2011Microeconomics II2010

SOFTWARE AND COMPUTER SKILLS

R, Python, MATLAB, STATA, SQL, Mathematica, HTML, GitHub, Microsoft Office, Excel, LATEX

FELLOWSHIP AND AWARDS

Robert Willis Harbeson Memorial Dissertation Award	May 2019
University of Illinois Summer Research Fellowship	Summer 2018
University of Illinois Summer Research Fellowship	Summer 2015
University of Illinois Economics Department Fellowship	Fall, Spring 2014
Awarded in the "List of Teachers Ranked as Excellent by their Students"	2016–2019 (6 Semesters)
University of Illinois Graduate Teaching Certificate	May 2019

REFERENCES

Please contact Patricia Rosario at ECON-PhDJobs@illinois.edu to request the letters of recommendations

Dan Bernhardt	David Albouy	Jorge Lemus
University of Illinois	University of Illinois	University of Illinois
(217) 954-1221	$(217) \ 300-2654$	(217) 244-7468
danber@illinois.edu	albouy@illinois.edu	jalemus@illinois.edu

Introducing a Micro-Founded Index of Consumption Welfare: A Big Data Approach

In this paper, I explore the heterogeneity in welfare from consumption based on a novel micro-founded index of welfare. I use Albania's 2012 Living Standard Measurement Survey to estimate the index in two steps. In the first step, I apply machine learning to find a non-parametric relation between households' consumption, and a large set of living conditions and characteristics indicators. In the second step, using the first step estimations, I find the distribution of households' marginal willingness to pay for each living condition's indicator, and estimate an index of welfare based on the model by Bajari and Benkard (2005). I show that the index is highly correlated with households' consumption expenditures, but unlike consumption as a naive measure of welfare, it accounts for the existing heterogeneity among their living conditions and preferences. Finally, this paper studies the geographical, cross gender and age distributions of the welfare index and compares the estimations with the consumption expenditure as a naive measure of welfare.

Evaluating Regulations in Peer-to-Peer Markets: A Synthetic Control Approach to Study Santa Monica Ban on Aribnb (with Peter Christensen)

Together with Peter Christensen, I focus on the effect of a ban on Airbnb in Santa Monica as a natural experiment. I apply "elastic net synthetic control" as a recently developed causal machine learning method. Synthetic control method provides a framework to generate a treatment group for each potential outcome using a pool of control groups, and study multiple outcomes in the market. I study the effect of the ban that targets entire-home, Airbnb rentals on incumbent listings' revenue, pricing behavior, and local competition in the market. I show that the ban significantly dropped the number of entry and increases the market power of those who remained in the market. Studying welfare effect of the ban is the next step in this paper.