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 Organizations, Welfare Economics, Causal Machine Learning

WORKING PAPERS

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

Adviser: Dan Bernhardt

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

Outstanding rating (top 10 percent) in the "List of Teachers Ranked as Excellent by their Students"

Teacher Assistant: (Undergraduate-Level)

University of Illinois

Introduction to Microeconomics 2016–2018

Intermediate Microeconomics 2014 2015

Intermediate Microeconomics 2014–2015

Teacher Assistant: (Graduate-Level) Sharif University of Technology, Iran

Game Theory 2012

Econometrics I 2010, 2011

Microeconomics II 2010

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

A month of the first of Tarakana Doubland or Farakhana bash bash bash bir Chadranta'' 2016 2016 2016 (C. Carastana)

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

Dan Bernhardt (Chair)

University of Illinois (217) 954-1221 danber@illinois.edu

David Albouy

University of Illinois (217) 300-2654 albouy@illinois.edu

Jorge Lemus

University of Illinois (217) 244-7468 jalemus@illinois.edu

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

Adviser: Dan Bernhardt

Peer-to-peer (P2P) markets allow small suppliers with limited capital to enter the 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. Airbnb market is highly dynamic, decentralized, and contains heterogeneous agents with limited capacities. These features present challenges for classic aggregated methods to estimate supply and demand for welfare analysis. I use a daily panel of Airbnb rentals in Chicago between August 2014 to April 2017, and apply an individual-level multinomial logit model to estimate the distribution of consumer and producer surplus among differentiated agents. I show that properties in less advantaged neighborhoods benefit the least from access to the Airbnb market; even though these properties feature lower competitive pressure and lower opportunity cost of renting. My results show a disproportionate concentration of welfare in neighborhoods with higher income, house price, and in upper-class areas.

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 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.