

XINYU GUO

Department of Economics , Iowa State University

☎ (515)-357-3099 ✉ xinyuguo@iastate.edu 🌐 <https://guoxinyu.weebly.com/>

EDUCATION

Iowa State University

· *Ph.D. in Economics*

2016-Present

Shandong University (Shandong, China)

· *M.A. in Economics* (left without graduation)

2014-2016

Nankai University (Tianjin, China)

· *B.A. in Industrial Engineering*

2007-2011

WORKING PAPER

Subsidies in cap-and-trade regulation: can society benefit and who captures them?

- develop a model of heterogeneous entry in a cap-and-trade regulated industry
- demonstrate how the commonly seen collateral requirements which are used to prevent moral hazard have side effects of distorting entry and production patterns; and show how subsidies (either quota subsidy or fixed cost subsidy) can alleviate this and improve social welfare
- analyze the distributional impact of quota subsidy v.s. fixed-cost subsidy in terms of pass-through rate and give estimations based on the calibrated model

Capacity coordination and strategic underproduction under cap-and-trade (with Quinn Weninger and Désiré Kédagni)

- develop a two-stage game of cap-and-trade regulated production with heterogeneous agents and show how underproduction may arise when players trade quota strategically
- investigate the regulatory countermeasures of quota ownership limits and identify conditions when introducing these ownership limits can improve social welfare
- develop an algorithm that solves this multiplayer two-stage game numerically and calibrate the model based on U.S. west coast groundfish fishery data to find the optimal ownership cap

Allocative preference and allocation procedure

- build an index that measures the difference between any two preferences over a given choice set
- provide justifications for the choice of different allocation procedures (such as auction or lottery) and show why they depend on fundamentals such as the designer's allocative preference, demographics, and resource scarcity

WORKING IN PROGRESS

Targeted advertising: will better targeting lead to more advertisement?

Roommate problem: pick your room and split the bill

TEACHING EXPERIENCE

Lab Instructor:

· *Econ 207 Applied Economic Optimization*

F2018

· *Econ 301 Intermediate Microeconomics*

F2020

· *Econ 500 Quantitative Methods in Economic Analysis*

F2020

Teaching Assistant:

· *Econ 101 Principles of Microeconomics*

2016,2017

· <i>Econ 102 Principles of Macroeconomics</i>	2016,2017
· <i>Econ 235 Introduction to Agricultural Markets</i>	F2018
· <i>Econ 380 Environmental and Resource Economics</i>	S2021
· <i>Econ 418 Game Theory</i>	S2019
· <i>Econ 680 Advanced Resource Economics</i>	S2021

HONORS AND AWARDS

James R. Prescott Fellowship , Iowa State University	2019
National Scholarship for Graduate Students , Shandong University	2015

RELATED TECHNICAL STRENGTHS

Programming Languages Python (primary); Matlab, GAUSS, R, Stata(working knowledge)

REFERENCES

Quinn Weninger

Professor (Major Advisor)
 Department of Economics
 Iowa State University
 ✉ weninger@iastate.edu

Joydeep Bhattacharya

Professor
 Department of Economics
 Iowa State University
 ✉ joydeep@iastate.edu

Désiré Kédagni

Assistant Professor
 Department of Economics
 University of North Carolina
 ✉ dkedagni@unc.edu