

Honghao Zheng

KU Leuven
Department of Economics
Naamsestraat 69
3000 Leuven, Belgium

Phone: (+32) 487513335
Email: honghao.zheng@kuleuven.be
Homepage: <https://honghao-zheng.github.io/>
Placement Officer: Laurens Cherchye

Education

Ph.D. Candidate in Economics, KU Leuven, Belgium, 2019-2025 (expected)

Advisors: Johannes Van Biesebroeck (**chair**), Jan De Loecker, Frank Verboven

Visiting Scholar, Duke University, U.S., 2024 Spring

Advisor: Allan Collard-Wexler

M.A. Economics, Zhejiang University of Finance & Economics, China, 2016-2019.

B.S. Economics, Zhejiang University of Finance & Economics, China, 2012-2016.

Research Fields

Industrial Organization, Environmental Economics, Development Economics

References

Johannes Van Biesebroeck
Department of Economics
KU Leuven
+32 (0)16 32 6793
jo.vanbiesebroeck@kuleuven.be

Jan De Loecker
Department of Economics
KU Leuven
+32 (0)16 37 4583
jan.deloecker@kuleuven.be

Frank Verboven
Department of Economics
KU Leuven
+32 (0)16 32 6944
frank.verboven@kuleuven.be

Allan Collard-Wexler
Department of Economics
Duke University
+1 (347) 948 4707
allan.collard.wexler@duke.edu

Working Papers

Death by Market Power: The Production-Safety Tradeoff in the Coal Mining Industry

(Job Market Paper)

I examine the effects of downstream buyer power from coal-fired power plants on the organization of production in the upstream coal mining industry in China. I estimate a structural model of coal mines featuring (i) joint production of coal and worker safety and (ii) endogenous safety choices and factor-augmenting productivity. To identify the causal effects of buyer power on coal mining outcomes, I employ a shift-share instrumental variable, leveraging exogenous variations stemming from a restructuring of the electricity sector. I find an unintended but life-and-death consequence associated

with market power: buyer power exposure leads to higher provincial death rates, also corroborated by lower safety-coal output ratios at the mine level. The underlying mechanism is that exposure to buyer power prompts coal mines to shift toward less capital-intensive, more traditional, and less safe mining technologies, leading to higher death rates. Finally, back-of-the-envelope calculations suggest that the decline in buyer power due to the electricity sector restructuring explains 53% of the improvement in coal mining death rates. The findings provide a new perspective on understanding the shared experience of high mining death rates in developed and developing countries over different historical periods.

Imperfect (Re)allocation in Imperfect Markets: Evidence from China's Pilot Carbon ETS

with Johannes Van Biesebroeck

We study how economies with distinct development phases can preferably curtail emissions. We exploit unique variations of heterogeneous regulations—absolute- and intensity-type emission regulations in the context of carbon emission trading schemes (ETS) in China. Using an extensive array of rich data, we employ a difference-in-differences empirical strategy to examine the behaviors of all primary margins of adjustment to ETS from the demand to the supply side of energy. We find that, under imperfect markets and incomplete regulation, both types of ETS can induce carbon mitigation but with distinct tradeoffs. Aggregate impacts suggest overall annual reductions in energy consumption by 23% and 9% of yearly energy consumption in ETS with absolute- and intensity-type emission regulations, respectively.

Work in Progress

Concrete Collusion

with Julian Hidalgo and Ruozi Song

Demand (Un)certainity and Productivity: Evidence from German Coal Mining Industry

with Kai Fischer

Local Knowledge or Misallocation: Efficiency Costs of Discretion in Regulatory Enforcement

with Yunyu Shu, Ruozi Song, and Bing Zhang

Financial Frictions, Skill Complementarity, and Labor Market Power

with Jin Cao and Tong Zhao

Trade Dynamics in the Ownership Network

with Jiewei Fang and Philipp Ludwig

Pre-Doctoral Publications

Estimation of Lorenz Curves Based on Dummy Variable Regression, 2019, *Economics Letters*.

with Zhengxin Wang and Hailun Zhang

Measurement and Comparison of Export Sophistication of the New Energy Industry in 30 Countries During 2000-2015, 2019, *Renewable and Sustainable Energy Reviews*.

with Zhengxin Wang

Decomposition of the Factors Influencing Export Fluctuation in China's New Energy Industry Based on a Constant Market Share Model, 2017, *Energy Policy*.

with Tong Jin, Lingling Pei, and Zhengxin Wang

Seminars and Conferences (*scheduled)

2024: NUS Applied Economics Student Workshop* (Singapore), CEPR-IO Gathering (Online), Public/IO Lunch Seminar (Duke), IO Group Seminar (Leuven)

2023: APIOC (Hong Kong), EARIE (Rome), IIOC (Washington D.C., Rising Star Session), IO Group Seminar (Leuven)

2017: 40th International Association for Energy Economics (IAEE) Conference (Singapore)

Teaching Experience

T.A. for *Global Value Chain*, KU Leuven, 2021-2024
for Johannes Van Biesebroeck and Liza Archanskaia

T.A. for *Economic Development of China*, KU Leuven, 2023
for Johannes Van Biesebroeck

Master Thesis Supervision, KU Leuven, 2020-2024
for Johannes Van Biesebroeck and Jan De Loecker

Personal Skills

Programming: R, Stata, Mata, Matlab, \LaTeX

Languages: Chinese (native), English (fluent)

Last updated: November 18, 2024