Xin Zhang

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EDUCATION

Doctoral Studies

Ph.D. in Economics, Toulouse School of Economics	2021–2026 (expected)
Visiting Scholar, Northwestern University, Department of Economics	Jan–Apr 2025

Prior Education

M.Sc. in Economic Theory and Econometrics, Toulouse School of Economics	2019–2021
B.Sc. in Economics and Management, Zhongnan University of Economics and Law	2015–2019

REFERENCES

Pierre Dubois	**Isis Durrmeyer**	**Thierry Magnac**
Toulouse School of Economics	Toulouse School of Economics	Toulouse School of Economics
pierre.dubois@tse-fr.eu	isis.durrmeyer@tse-fr.eu	thierry.magnac@tse-fr.eu

RESEARCH INTERESTS

Primary field: Industrial Organization
Secondary fields: Health Economics, Food Economics

TEACHING EXPERIENCE

Teaching Assistant
Toulouse School of Economics

Game Theory, Master	2022, 2023, 2024
Intermediate Econometrics, Master	2024
Introductory Econometrics, Undergraduate	2024
Empirical Industrial Organization, Master	2023
Industrial Organization, Undergraduate	2023

OTHER POSITIONS

Research Assistant to Isis Durrmeyer, Toulouse School of Economics   2022
Research Assistant to Mathias Reynaert, Toulouse School of Economics   2021, 2020
Research Assistant to Jie Shuai, Zhongnan University of Economics and Law   2016–2018
Intern at Guotai Junan Securities, Wuhan   2017

AWARDS AND FELLOWSHIPS

Mobility grant, Toulouse School of Economics   2025
Doctoral fellowship, Toulouse School of Economics   2019-2026
Student research award, Zhongnan University of Economics and Law   2019

WORKING PAPER

Patent Challenge and Generic Entry - Job market paper
with Hanlin Zhao
Secondary patents, covering incremental innovations such as formulations or methods of use rather than core active ingredients, are increasingly employed by brand-name firms to extend market exclusivity, defer generic competition, and sustain high prices. A key policy response, the Hatch–Waxman Act's 180-day exclusivity for the first successful generic challenger, is designed to incentivize challenges to these patents. This study evaluates how this incentive shapes generic firms' decisions to initiate Paragraph IV (PIV) challenges. We develop a two-stage dynamic model that endogenizes patent challenge decisions and apply partial identification methods to estimate the fixed costs of generic drugs. We assess alternative policies that vary in exclusivity lengths and fixed costs. Our results show that the 180-day exclusivity increases PIV challenges by about 4%. Longer exclusivity periods are more effective and practical than reducing fixed costs, and they substantially accelerate entry in previously unchallenged markets: 2-year exclusivity raises the challenge rate to 15.38%. Moreover, it is recommended to tailor exclusivity lengths to specific therapeutic classes.

Tax Exemption for Feminine Sanitary Products: Evidence from the U.S Market

WORK IN PROGRESS

Consumer Demand with Unobserved Stockpiling and Intertemporal Price Discrimination
with Pierre Dubois and Thierry Magnac
Prescribing Behavior in Medical Deserts
with Philippe Choné, Pierre Dubois and Lionel Wilner

PRESENTATIONS

2025 TSE Empirical Micro Workshop, IO Lunch Seminar at Northwestern University, Brown Bag Seminar at Kellogg School of Management
2024 TSE IO Workshop, EEE Luchon workshop
2023 TSE IO Workshop
2017 CES Annual Conference, China

OTHER ACTIVITIES

Service: Mentor, Women in Economics Mentorship Program, TSE (2022–2023);
Co-organizer, TSE IO Workshop (2023–2024) and IO Reading Group (2024–2025)

OTHER INFORMATION

Software: Matlab, Stata, R, Python, SAS
Languages: English (fluent), French (basic, B1), Mandarin (native)
Citizenship: China