

Xin Zhang

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EDUCATION

Doctoral Studies

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

Prior Education

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

REFERENCES

Pierre Dubois

Toulouse School of Economics
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Isis Durrmeyer

Toulouse School of Economics
isis.durrmeyer@tse-fr.eu

Thierry Magnac

Toulouse School of Economics
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 prolong effective exclusivity, defer generic competition, and sustain high prices. A key policy response, the Hatch–Waxman Act attempts to counteract this incentive by granting 180 days of marketing exclusivity to the first successful generic challenger, thereby rewarding challenges to these patents. This study evaluates how this policy shapes generic firms’ decisions to initiate Paragraph IV (PIV) challenges. We develop a two-stage structural model that endogenizes patent challenge decisions and use moment inequalities to estimate the fixed costs of generic entries. We evaluate counterfactual policies that vary exclusivity lengths and fixed costs. Our results show that the current 180-day exclusivity increases PIV challenges by about 4%. Extending exclusivity is more effective and practical than reducing fixed costs, and it substantially encourages generic entries in previously unchallenged markets: 2-year exclusivity raises the challenge rate to 15.38%. The effective exclusivity length is heterogeneous across therapeutic classes. For example, achieving a 20% challenge rate would require roughly two years for antimicrobials, whereas blood products or genitourinary drugs would require less than one year.

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 (intermediate, B1), Mandarin (native)

Citizenship: China