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# **OLIVIA ZHAO**

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#### **Education**

Harvard Business School, Harvard Graduate School of Arts and Sciences

Boston, MA
PhD Health Policy (Management)

2026 (expected)

Dissertation title: "Prescription Drugs: Innovation, Payment, and Prescribing"

University of Oxford Oxford, United Kingdom

MPhil Economics, Marshall Scholarship (2018) 2020

Thesis title: "Contracting Pay-for-Performance in the NHS"

Massachusetts Institute of Technology Cambridge, MA

BS Economics 2018

**References** 

Leemore Dafny (Chair)

Amitabh Chandra

ldafny@hbs.edu

achandra@hbs.edu

Leila Agha Mark Shepard

agha@hcp.med.harvard.edu <u>mark\_shepard@hks.harvard.edu</u>

**Research interests** 

*Fields:* Health economics, health policy, innovation economics, *Topics:* Pharmaceutical industry, antitrust and competition policy

<u>Job Market Paper</u> "Policy Incentives and Pharmaceutical Innovation," with Edward Kong <u>Link to latest draft</u>

> Abstract: Pharmaceutical firms' incentives to develop new drugs stem from expected profitability. We explore how policies that shape these expectations influence pharmaceutical innovation. First, we estimate the effects of extending market exclusivity for antibiotics, a drug class where private returns to development historically had not internalized the high social value of new innovation. Using a difference-in-differences approach leveraging implementation of legislation that approximately doubled the market exclusivity period for certain antibiotics, we find that the policy increased innovative activity at multiple stages of drug development, from patenting to preclinical activity to phase 3 clinical trials. Building on these empirical findings, we calibrate a structural model of firms' drug development decisions to generalize our findings beyond antibiotics. We simulate counterfactual policies (exclusivity extensions and price controls), highlighting how differences in average market size and revenue timing shape policy effectiveness across therapeutic areas.

#### **Publications**

- San Soucie, C, ND Beaulieu, JD Buxbaum, D Cutler, JK Leyenaar, SC McBride, O Zhao, and AT Chien. A National Analysis of General Pediatric Inpatient Unit Closures and Openings, 2011–2018. Hospital Pediatrics 14, no. 11 (November 2024): 899–908. doi: 10.1542/hpeds.2024-007754
- **Zhao O** and AD Sinaiko. Effects of a Real-Time Information-Based Intervention on Physician Prescribing Behavior. Academy of Management Proceedings. 2024.
- Sinaiko AD, CE Sloan, MJ Soto, O Zhao, C Lin, FR Goss. Clinician Response to Patient Medication Prices Displayed in the Electronic Health Record. JAMA Internal Medicine. 2023;183(10):1172-75. doi:10.1001/jamainternmed.2023.3307
- Vogel M, O Zhao, WB Feldman, A Chandra, AS Kesselheim, BN Rome. Cost of Exempting Sole Orphan Drugs From Medicare Negotiation. JAMA Internal Medicine. 2024;184(1):63-69. doi:10.1001/jamainternmed.2023.6293

## **Papers Under Review**

Zhao O, C San Soucie, DA Rauch, CL Cifra, L Lee, N Beaulieu, D Cutler, and AT Chien. National Trends in Market Competition for Hospital-Based Pediatric Services: 2011-2018

#### **Working Papers**

• Kong E and **O Zhao**. Market Incentives and the Drug Development Pipeline: Evidence from Antibiotics. SSRN Working Paper. 2023. doi:10.2139/ssrn.4676384

### **Presentations**

Southeastern Health Economics Study Group Conference (upcoming)	2025
American Society of Health Economists (ASHE) Annual Conference	2025, 2024, 2023
Boston University Technology & Policy Research Initiative IP Day	2024
Academy of Management Annual Meeting	2024
Health Care Management Division Best Paper Award: "Effects of a Real-Time	
Information-Based Intervention on Physician Prescribing Behavior"	
Pediatric Academic Societies Annual Meeting	2024
NBER Productivity Seminar	2023
Informs Healthcare Conference	2023
AcademyHealth Annual Research Meeting	2023

### **Professional Service**

• Reviewer: *Journal of Health Economics* 

(average rating 4.7/5.0, Distinction in Student Teaching)

#### **Teaching**

Transforming Health Care Delivery	2024
MBA, Harvard Business School, Ariel Stern	
(no rating available)	
U.S. Healthcare Industry and Regulatory Policy	2023, 2022
Masters, Harvard Kennedy School, Leemore Dafny	

Research in Global Health and Health Policy

Undergraduate, Harvard College, David Cutler
(average rating 4.8/5.0)

Essentials of the Profession (Health Policy module – section co-leader)

MD, Harvard Medical School
(no rating available)

Analytic Frameworks for Public Policy

Masters, Harvard Kennedy School, Richard Zeckhauser
(average rating 4.8/5.0)

## Other research experience

Harvard Business School

Research Assistant to Leemore Dafny

Sep 2020 – Dec 2022

Harvard Kennedy School

Research Assistant to Mark Shepard

Cambridge, MA

May 2021 – Dec 2022

Institute for Fiscal Studies

London, UK

Summer Fellow/Visiting Researcher

May 2019 – Aug 2020

## Other activities

MIT Presidential Committee on Distinguished Fellowships	2021-present
HBS Wyss Awards for Excellence in Mentoring Selection Committee	2022-2025
Health Policy & Management Student Seminar Organizer	2022-2023
HBS Program for Research in Markets & Organizations (PRIMO) Advisor	2023
Health Policy PhD Peer Mentor	2021-2022