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## **HARVARD UNIVERSITY**

Placement Director: Claudia Goldin	CGOLDIN@HARVARD.EDU	617-495-3934
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### **Office Contact Information**

Littauer Center  
1805 Cambridge Street  
Cambridge, MA 02138

### **Undergraduate Studies:**

B.A. in Economics and Computer Science, Williams College, 2015  
*Magna Cum Laude*, Phi Beta Kappa, High honors in Economics

### **Graduate Studies:**

Harvard University, 2017 to present  
Ph.D. Candidate in Business Economics  
Thesis Title: "Essays in Industrial Organization and Urban Economics"  
Expected Completion Date: May 2023

### **References:**

Professor Edward Glaeser Harvard University <a href="mailto:eglaeser@harvard.edu">eglaeser@harvard.edu</a> (617) 495-0575	Professor Ariel Pakes Harvard University <a href="mailto:ariel_pakes@harvard.edu">ariel_pakes@harvard.edu</a> (617) 495-5320
Professor Robin Lee Harvard University <a href="mailto:robinlee@fas.harvard.edu">robinlee@fas.harvard.edu</a> (617) 495-2997	Professor Myrto Kalouptsidi Harvard University <a href="mailto:myrto@g.harvard.edu">myrto@g.harvard.edu</a> (617) 496-0832

### **Teaching and Research Fields:**

Industrial Organization, Urban Economics, Real Estate

### **Teaching Experience:**

Spring 2020	Deconstructing and Reconstructing Markets (undergraduate sophomore tutorial), Harvard University, co-course designer and co-instructor
Fall 2019	Industrial Organization I, Harvard University (graduate), teaching fellow for Professor Ariel Pakes and Professor Robin Lee
Fall 2018	Market Design, Harvard University (graduate), teaching fellow for Professor Scott Kominers

### **Research Experience and Other Employment:**

Spring 2019	Harvard University, Research Assistant to Professor Edward Glaeser and Professor Oliver Hart
2015-2017	Federal Reserve Bank of New York, Research Analyst

**Honors, Scholarships, and Fellowships:**

2017-2022	National Science Foundation Graduate Research Fellowship
2021	Meyer Dissertation Fellowship, Harvard University Joint Center for Housing Studies
2019, 2020	Distinction in Student Teaching, Harvard University

**JOB MARKET PAPER:**

“Option Value and Storefront Vacancy in New York City” (with Daniel Stackman)

Why do storefronts remain empty for more than a year in some of the world’s highest-rent retail districts? We construct and estimate a dynamic, two-sided model of storefront leasing to investigate possible explanations using data from New York City. The model incorporates salient features of the retail leasing market: heterogeneous tenant quality, high move-in costs, search frictions, asymmetric contract dissolution costs for landlords and tenants, and aggregate uncertainty in downstream retail demand. We estimate the model parameters by matching quarterly vacancy rates, lease-up rates, and tenant exit rates from a comprehensive, high-frequency storefront tracking service, combined with micro data on commercial leases. We find that tenant heterogeneity and move-in costs jointly explain long-run vacancy by generating dispersion in match surplus and therefore option value for landlords. In a counterfactual exercise, eliminating either feature results in vacancy rates of close to zero. Search frictions and aggregate uncertainty play much smaller roles. Finally, we use the estimated model to quantify the impact of a retail vacancy tax on long-run vacancy rates, average rents, and social welfare. Vacancies would have to generate negative externalities of \$18.72 per square foot per quarter (about 30% of average rents) to justify a 1% vacancy tax on assessed property values.

**Working Papers:**

“Bleaker on Broadway: The Contractual Origins of High-Rent Urban Blight” (with Daniel Stackman – his job market paper)

We document the rise of storefront vacancies in prime retail locations, a phenomenon we refer to as high-rent blight, in America’s largest and most expensive urban retail market: Manhattan. We identify a little-known contracting feature between retail landlord and their bankers that generates vacancies in the downstream market for retail space. Specifically, widespread covenants in commercial mortgage agreements impose rent floors for any new leases landlords may sign with tenants, short-circuiting the price mechanism in times of low demand for retail space. Quasi-experimental estimates suggest that binding rent floors imposed by mortgage covenants substantially reduce the probability of occupancy, and we show in counterfactual exercises that covenants may have increased vacancy rates by as much as 14% over the 2016 to 2020 period.

“Gentrification and Retail Churn: Theory and Evidence” (with Edward L. Glaeser and Michael Luca)  
Accepted, *Regional Science and Urban Economics*

How does gentrification transform neighborhood retail amenities? This paper presents a model in which gentrification harms incumbent residents by increasing rental costs and by eliminating distinctive local stores. While rising rents can be offset with targeted transfers, the destruction of neighborhood character can – in principle – reduce overall social surplus. Empirically we find that gentrifying neighborhoods experience faster growth in both the number of retail establishments and business closure rates than their non-gentrifying counterparts. However, we see little evidence that gentrification is associated with changes in retail mix or prices – suggesting limited welfare losses.

**Publications:**

Cai, Michael, Marco Del Negro, Marc P. Giannoni, Abhi Gupta, Pearl Li, and Erica Moszkowski. “DSGE Forecasts of the Lost Recovery.” *International Journal of Forecasting* 35, no. 4 (October 2019): 1770–89. <https://doi.org/10.1016/J.IJFORECAST.2018.12.001>

**Professional Activities:**

*Presentations*

2022 Harvard Joint Center for Housing Studies, National Association for Business Economics Tech Economics Conference, Williams College  
2020 Boston University Women in Economics Mentoring Workshop

*Peer Review* Journal of Urban Studies, The Economic Journal

*Service* Harvard IO Workshop Co-Organizer (2019-2021)  
Peer Mentor (Harvard Economics Department, 2018-2019)  
JuliaCon Diversity Chair (2017)

**Personal Information:**

Citizenship: USA

*Last Updated: January 25, 2023*