

ERICA MOSZKOWSKI
<https://www.ericamoszkowski.com>
emoszkowski@g.harvard.edu
646-320-5413

HARVARD UNIVERSITY

Placement Director: Claudia Goldin	CGOLDIN@HARVARD.EDU	617-495-3934
Placement Director: Lawrence F. Katz	LKATZ@HARVARD.EDU	617-496-5079
Assistant Director: Brenda Piquet	BPIQUET@FAS.HARVARD.EDU	617-495-8927

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
eglaeser@harvard.edu
(617) 495-0575

Professor Ariel Pakes
Harvard University
ariel_pakes@harvard.edu
(617) 495-5320

Professor Robin Lee
Harvard University
robinlee@fas.harvard.edu
(617) 495-2997

Professor Myrto Kalouptsi
Harvard University
myrto@g.harvard.edu
(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 \$29.68 per square foot per quarter (about half of average rents) to justify a 1% vacancy tax on assessed property values.

Research Papers in Progress:

“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. We microfound this contracting feature as the solution to a moral hazard problem between landlords and banks. We show that while rent floor covenants increase vacancies, their absence reduces credit supply to landlords.

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

How does gentrification transform neighborhood retail amenities? This paper presents a model in which gentrification can harm incumbent residents by increasing rental costs and by eliminating old amenities, specifically distinctive local stores. Rising rents represent redistribution from tenants to landlords and can therefore be offset with targeted transfers, but the destruction of neighborhood character can – in principle – reduce overall social surplus. Using Census and Yelp data from five cities, we document that while gentrification, as measured by rising education levels and rents, is associated with an increase in the number of retail establishments overall, it is also associated with higher rates of business closure. Closure rates are not higher in

gentrifying areas than in richer areas, but closure rates in stable, poor areas are unusually low. We see little evidence that gentrification is associated with a changing retail mix, however, or in increased prices, at least as measured by dollar signs on Yelp reviews. Consequently, while we the overall welfare losses created by lost local character remain a theoretical possibility, the evidence does not suggest that these losses are large in our cities, and that the redistribution between tenant and landlord associated with rising rents is more important.

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

<i>Peer Review</i>	Journal of Urban Studies, The Economic Journal
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<i>Service</i>	Harvard IO Workshop Co-Organizer (2019-2021) Peer Mentor (Harvard Economics Department, 2018-2019) JuliaCon Diversity Chair (2017)
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Personal Information:

Citizenship: USA

Last Updated: December 3, 2022