

The Geography of Gentrification and Residential Mobility

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This research was conducted while the authors were Special Sworn Status researchers of the U.S. Census Bureau at the Boston Research Data Center and the Georgetown University Research Data Center. Results and conclusions are those of the authors and do not necessarily reflect the views of the U.S. Census Bureau. The results shown in this draft have been reviewed by the US Census Bureau's Disclosure Review Board, authorization numbers CBDRB-FY20-128 and CBDRB-FY21-POP001-0012.

Motivation and Background

Does Gentrification Cause Displacement?

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Why do we have inconsistent results?

- Different measures of gentrification? No. Many report their results are robust to alternative measures of gentrification
- Different neighborhood processes across cities? Probably.
 - Growing regional divergence and inequality across cities (Ganong and Shoag 2017; Manduca 2019)
 - Greater heterogeneity across disadvantageous neighborhoods across cities (Small, Manduca, and Johnson 2018)
 - Spatial heterogeneity in the pattern of neighborhood ascent (Owens 2012)

Association between Gentrification and Residential Mobility

- Comparing residential mobility out of gentrifying neighborhoods with mobility out of similar gentrifiable but non-gentrifying areas

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➔ Interpretation: Gentrification is associated with residential mobility

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Gentrifiable, Gentrifying, and Non-Gentrifiable Neighborhoods

Gentrifiable Neighborhoods

Central/Urban: within principal cities of the top 100 Metropolitan Statistical Areas (MSAs)

Low-Income: with a median household income less than 80% of the MSA's median income

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Gentrifying Neighborhoods

- A "gentrifiable" neighborhood



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Gentrifying Neighborhoods

- A "gentrifiable" neighborhood that experiences (a) an above metro increase in college graduate share



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Gentrifying Neighborhoods



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Gentrifying Neighborhoods

- A "gentrifiable" neighborhood that experiences (a) an above metro increase in college graduate share AND (b) an above metro increase in median housing prices (house value or gross rent)



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Classification of MSAs: PCA and Cluster Analysis

(1) Principal Components Analysis (PCA)

- Conducting PCA on 25 metro-level variables that reflect population, socio-economic, and housing characteristics of the top 100 MSAs

Categories	Variables			
Population	Total Population (in 000s) % Under 18 % 65 and over % Recent Immigrants % Long-term Immigrants	Total Households (in 000s) % NH-White % Black % Asian and PI % Hispanic		
Socio-economic	Median Household Income % < High School % BA+ % Unemployment % High-Status Occupation	% Poverty % Married-Couple HHs % Single-Mom HHs % Recent movers		
Housing	% Owners % Occupancy % Multifamily Units	Median Value Median Gross Rent % Units Built After 2000		

 \rightarrow Six principal components that have an eigenvalue over one

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(1) Principal Components Analysis (PCA)

- Conducting PCA on 25 metro-level variables that reflect population, socio-economic, and housing characteristics of the top 100 MSAs

(2) Cluster Analysis

- Grouping those MSAs that have similar characteristics (minimizing Euclidean distances between them in terms of the principal components)



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MSA Clusters		Key Features		
Coastal and Tech (9)	•	Large % BA+ and high-status occupation High median income and housing costs	•	Relatively greater % Asian and PI Low %unemployment
Immigrant Gateways (4)	•	High % recent and old immigrants Low % married couples and recent movers	•	High % old and MF buildings Low % recent movers and % owners
Southern and Mountain (23)	•	% Newcomers and newly built buildings Relatively affordable housing prices	•	Relatively high %kids and low %65+ Low % single-mon households
Formerly Industrial (53)	•	Large % NH-White and % African American Affordable housing prices	•	Low % immigrants, % Asian and PI, and % Hispanic
Florida Retirement (4)	•	Large % 65+ and NH-White High homeownership and recently built units	•	High % vacancy Mostly single-family homes
Inland Empire /TX Border (7)	•	Large % Hispanic and single-mom HHs High poverty and unemployment rates	•	High % married couples and % kids Mostly single-family homes



Coastal and Tech

- Boston, MA
- San Francisco, CA
- San Diego, CA
- Seattle, WA
- Washington, DC

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Large Immigrant Gateways

- New York, NY
- Los Angeles, CA
- Chicago, IL
- Miami, FL

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Southern and Mountain

- Atlanta, GA
- Dallas, TX
- Houston, TX
- Denver, CO
- Phoenix, AZ

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Formerly Industrial

- Philadelphia, PA
- Detroit, MI
- St. Louis, MO-IL
- Baltimore, MD
- Pittsburg, PA

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Florida Retirement

- Cape Coral, FL
- Lakeland, FL
- North Port, FL
- Palm Bay, FL

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Inland Empire/TX Border

- Riverside, CA
- Fresno, CA
- Bakersfield, CA
- El Paso, TX
- McAllen, TX

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Method, Data, and Regression Results

Confidential American Community Survey

ACS Public-Use Microdata

- Demographic and socio-economic characteristics of households
 - Age, sex, race/ethnicity, education, marital status, income, household composition, etc.
 - Current residence (PUMA)
- Migration-related variables
 - Mobility status (lived here 1 year ago)
 - Previous residence (PUMAlevel)

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ACS Restricted-Use Microdata

- Demographic and socio-economic characteristics of households
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- Migration-related variables
 - Mobility status (lived here 1 year ago)
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Sample Selection

- 2011-2019 ACS 1-year microdata sample
- People 25 years old and over in the census tracts within gentrifiable tracts (urban and low-income neighborhoods)



ACS Restricted-Use Microdata

- Demographic and socio-economic characteristics of households
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 - Current residence (blocklevel)
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Regression Model

 $y_{ijk,t+1} = \beta gentrifying_{jk} + \gamma X_{ijk,t} + \delta N_{jk,2006-10} + \sigma_k + \tau_t + \varepsilon_{ijk,t}$

Dependent Variable

- Residential mobility outcome in year t+1 of individual person i who was in neighborhood j in MSA k in year t
 - 1 = move to different neighborhood
 - 0 = stayers and within neighborhood movers

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Gentrification Identifier Variable

- Gentrification dummy for a neighborhood j in MSA k
 - 1 = gentrifiable and gentrifying between 2010 and 2019
 - 0 = gentrifiable but not gentrifying between 2010 and 2019
- Non-gentrifiable neighborhoods were excluded from the sample

Residential Mobility Decisions

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Origin Neighborhood Characteristics in 2006–10

- Demographic and socio-economic characteristics of neighborhood j in MSA k before gentrification (i.e., 2006–2010)
- % racial/ethnic minority, % college grad+, median household income, median housing value, and median gross rent

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Metro (σ_k) and Year Fixed-Effects (τ_t)



Notes: +: p < 0.05, *: p < 0.05, *: p < 0.001. Robust standard errors are in parentheses. The sample is restricted to those people 25 years and older within principal cities of the most populous 100 Metropolitan Statistical Areas in the United States. The personal sample weights are used to provide nationally representative estimates. All dollar figures are adjusted to 2018 dollars. These results were disclosed by the US Census Bureau's Disclosure Review Board, authorization numbers CBDRB-FY20-128 and CBDRB-FY21-POP001-0012.

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Notes: +: p < 0.1, *: p < 0.05, **: p < 0.01, ***: p < 0.001. Robust standard errors are in parentheses. The sample is restricted to those people 25 years and older within principal cities of the most populous 100 Metropolitan Statistical Areas in the United States. The personal sample weights are used to provide nationally representative estimates. All dollar figures are adjusted to 2018 dollars. These results were disclosed by the US Census Bureau's Disclosure Review Board, authorization numbers CBDRB-FY20-128 and CBDRB-FY21-POP001-0012.



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- Examining the association between gentrification and residential mobility in the top 100 MSAs in the 2010s, in aggregate, and then by MSA clusters
- Gentrification is associated with a modest increase in the probability of moving in the aggregate top 100 MSA sample
- There is significant spatial heterogeneity in the relationship by the broader metropolitan context in which it is occurring
- Gentrification as a mechanism connecting MSA characteristics to mobility outcomes
 - The process of neighborhood change, including gentrification, unfolds differently across different types of neighborhoods (Hwang and Sampson 2014; Owens 2012)
 - The between-city heterogeneity in neighborhood poverty has increased over time (Small, Manduca, and Johnston 2018)
 - Residential mobility is at least partially determined by metro-level characteristics (Crowder, Pais, and South 2012; South, Pais and Crowder 2011)

... And what we have done since then

Residential Mobility Outcomes Mobility rate (out of the neighborhood)



Residential Mobility Outcomes Mobility rate (out of the neighborhood, out of the city, out of the MSA) Destination neighborhood quality (%poverty, median household income)

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Residential Mobility Outcomes Mobility rate (out of the neighborhood)

Gentrification Gentrifying vs. Non-gentrifying

Residential Mobility Outcomes

Mobility rate (out of the neighborhood, out of the city, out of the MSA) Destination neighborhood quality (%poverty, median household income)

Gentrification

Intensely gentrifying vs. Moderately gentrifying vs. Non-gentrifying

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Residential Mobility Outcomes Mobility rate (out of the neighborhood)

Gentrification Gentrifying vs. Non-gentrifying

Sample

Adults 25 years and over

Top 100 MSAs

Residential Mobility Outcomes

Mobility rate (out of the neighborhood, out of the city, out of the MSA) Destination neighborhood quality (%poverty, median household income)

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Intensely gentrifying vs. Moderately gentrifying vs. Non-gentrifying

Sample

Adults 25 years and over with less than a bachelor's degree All 366 MSAs



... And what we have done since then



Sample

Adults 25 years and over

Top 100 MSAs

... so please stay tuned

Thank You | hyojunglee@vt.edu

Gentrification

Intensely gentrifying vs. Moderately gentrifying vs. Non-gentrifying

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