

Is Coffee Shop an Indicator of Gentrification and Crime?

JIE HENG

Gentrification and Crime

- What is gentrification:

“The process by which higher income households displace lower income [households] of a neighborhood, changing the **essential character and flavor of that neighborhood**”

Kennedy, Maureen and Paul Leonard. 2001. “Dealing with Neighborhood Change: A Primer on Gentrification and Policy Changes.” Discussion Paper Prepared for the Brookings Institution Center on Urban and Metropolitan Policy.

- Criminological theory and the association between gentrification and crime:

- Broken windows thesis
- Civic communities perspective, Routine activities theory, Defended communities thesis, Social disorganization
- Gentrification starts, crime rates goes down

Gentrification and Crime

- How to identify gentrification:
 - “Coffee shop capture a more subtle cultural process of neighborhood change that might not be captured by such census indicators.”--- Richard Lloyd
- Papachristos, Smith & Fugiero. 2011. “More Coffee, Less Crime? The Relationship between Gentrification and Neighborhood Crime Rates in Chicago, 1991 to 2005”
 - Chicago is a racially segregated city
 - Asian neighborhood

Gentrification and Crime

- How to identify gentrification:
 - “Coffee shop capture a more subtle cultural process of neighborhood change that might not be captured by such census indicators.”--- Richard Lloyd
- Papachristos, Smith & Fugiero. 2011. “More Coffee, Less Crime? The Relationship between Gentrification and Neighborhood Crime Rates in Chicago, 1991 to 2005”
 - Chicago is a racially segregated city
 - Asian neighborhood

Research Questions:

1. Is there a relation between the number of coffee shops and crime associated with gentrification in a city with high ethno-racial diversity (New York)?
2. Do the number of coffee shops of neighborhoods and other features of neighborhoods(race, income) are associated with crimes(murder, robbery)?

Data

- The number of Coffee shops in NY:
 - Sidewalk Café Licenses and Applications
 - Legally Operating Businesses
 - Grand Street BID Business Directory
- Income, population, education, race, housing built
 - census
- Crime data:
 - NYPD Complaint Data to Current

NYC OpenData

United States
Census
Bureau



NYDATABASES.COM

Methods

NYC Coffee Shops
by Zip Code



Maps-- observation

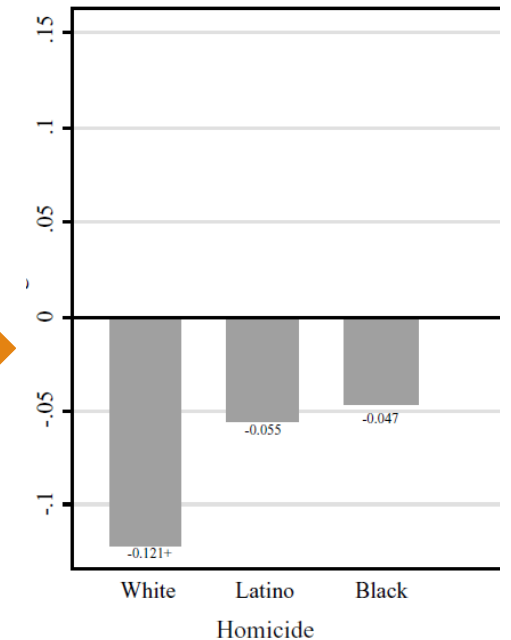
- Education(bachelor degree)
- Gentrifiers(move to the neighborhood),
- New housing built in 5 years
- Log of mean family income,
- Percent of population that is Black, White, Hispanic, Asian, foreign born,
- the average number of coffee shop.

PCA/factor analysis

Independent variables

Dependent
variable:
count of
crime

Compare models to
predict crime



Crime type & coffee
shops

Methods

NYC Coffee Shops
by Zip Code



Maps-- observation

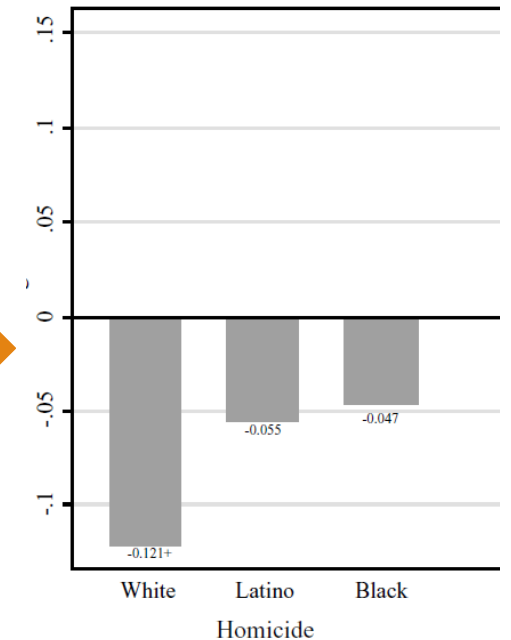
- Education(bachelor degree)
- Gentrifiers(move to the neighborhood),
- New housing built in 5 years
- Log of mean family income,
- Percent of population that is Black, White, Hispanic, Asian, foreign born,
- the average number of coffee shop.

PCA/factor analysis

Independent variables

Dependent
variable:
count of
crime

Compare models to
predict crime



Crime type & coffee
shops

Challenges

1. Data cleaning
2. Divide the crime data to neighborhoods according to the GPS coordinates

Thank you
