USING THE CENSUS TO UNDERSTAND DIFFERENCE: HISPANIC HOMEOWNERSHIP

Guest Lecture, CP101 Rocio Sanchez-Moyano June 1, 2020

GOALS FOR TODAY: RESEARCH DESIGN USING THE CENSUS

- 1. Questions we CAN and CAN'T answer
- 2. Census geographies
- 3. Published vs Micro data
- 4. Research example: Geography of Hispanic homeownership

WHAT CAN WE DO WITH DECENNIAL CENSUS & ACS DATA?

Answerable questions:

- How many:
 - People
 - Households
 - White/Black/Hispanic/Asian
 - College grads
- Averages and medians:
 - Income
 - Household size
 - Unit age
- Changes in characteristics of a specific geography (tract, city, state) over time

Unanswerable questions:

- Tracking:
 - Where did someone move to/from?
 - Who did they live with before?
 - Do they earn more now that they graduated from college?
- Many "why?" questions:
 - Why did someone move?
 - Why do they commute via car rather than bus?

NOTE: other surveys produced by the Census Bureau can answer some of these questions

CENSUS GEOGRAPHIES



PROBLEMS WITH CENSUS GEOGRAPHIES

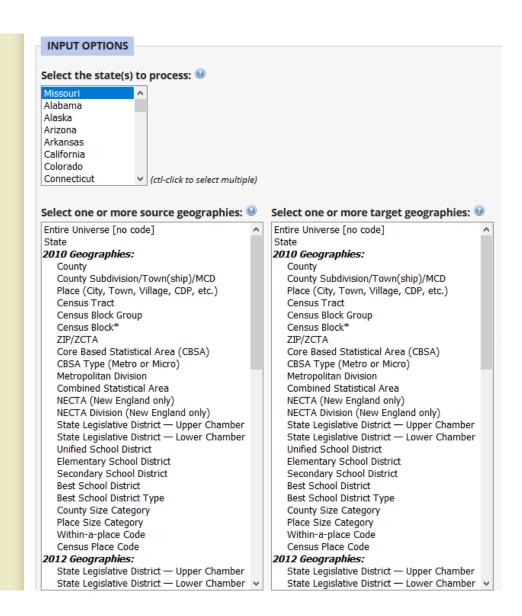
- 1. Relationships between non-nested geographies
- 2. Changes over time

Both have same solution: Crosswalks

CROSSWALKS

"Manual" for converting geographies

Useful source for them:
Geocorr from MCDC
http://mcdc.missouri.edu/applications/geocorr201
4.html



CROSSWALKS - OUTPUT

Sample Place to County crosswalk

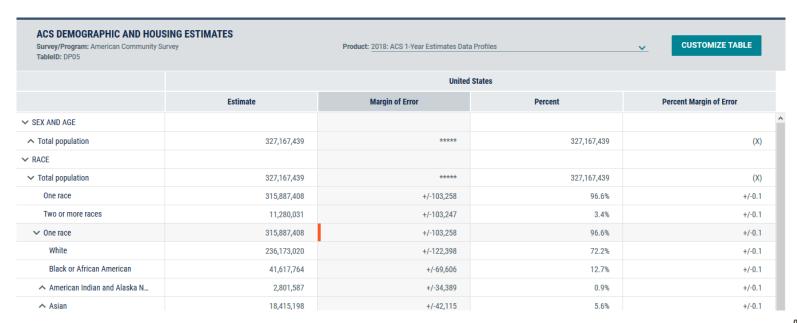
						Allocation
stfips	plfips10	stcofips	County Name	Place Name	Population	factor
01	00100	01017	Chambers AL	Abanda CDP, AL	79	1
01	00124	01067	Henry AL	Abbeville city, AL	1255	1
01	01228	01107	Pickens AL	Aliceville city, AL	1164	1
01	01396	01009	Blount AL	Allgood town, AL	220	1
01	01660	01009	Blount AL	Altoona town, AL	11	0.026
01	01660	01055	Etowah AL	Altoona town, AL	415	0.974
01	01708	01039	Covington AL	Andalusia city, AL	4356	1
01	01852	01015	Calhoun AL	Anniston city, AL	11599	1
01	02116	01043	Cullman AL	Arab city, AL	11	0.003
01	02116	01095	Marshall AL	Arab city, AL	3682	0.997

GEOGRAPHY OVER TIME - STANDARDIZATION

- Census boundaries regularly redrawn
 - Tracts updated every decennial census
 - MSAs OMB updates every year or two
 - Places change for political reasons (annexation, incorporation, etc) -https://www.census.gov/geographies/reference-files/time-series/geo/bas/new-annex.html
- •Can use crosswalks, but there are some online resources that do it for you:
 - Social Explorer for select variables
 - Longitudinal Tract Database Brown University tracts only
 - NHGIS University of Minnesota lots of geographies available

CENSUS/ACS DATASET TYPES: PUBLISHED TABLES

- •What most people think of when they picture "Census data"
- All geographic levels available
- •https://data.census.gov/cedsci/



CENSUS/ACS DATASET TYPES: PUBLIC USE MICRODATA (PUMS)

- Data at the INDIVIDUAL and HOUSEHOLD levels
- Geography limited to PUMA (public use microdata area)
 - >100,000 people
 - Can aggregate data up to larger geographies, like states, but not down to smaller ones
- •"Microdata are for those users who want to create do-it-yourself tabulations, to be able to further draw on the richness of detail recorded in the ACS"

	serial_str~g	puma	ownershpd	rentgrs	hhincome	lingisol
1	0000001	1500	With cash rent	667	23102	Not linguistically isolated
2	0000002	3005	With cash rent	1328	69621	Not linguistically isolate
3	0000003	100	Owned with mortgage or loan	0	100668	Not linguistically isolate
4	0000004	8508	Owned with mortgage or loan	0	109763	Not linguistically isolate
5	0000005	1600	Owned with mortgage or loan	0	26866	Not linguistically isolate
6	0000006	1800	Owned with mortgage or loan	0	62722	Not linguistically isolate
7	0000007	8105	With cash rent	1631	41396	Not linguistically isolate
8	0000008	308	Owned with mortgage or loan	0	51014	Not linguistically isolate
9	0000009	500	Owned free and clear	0	44010	Not linguistically isolate

RESEARCH DESIGN: HISPANIC HOMEOWNERSHIP

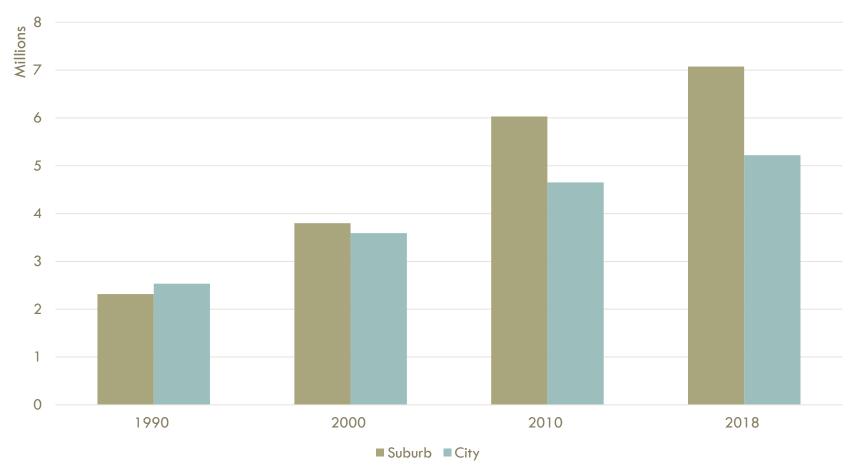
Published tables

- •How has homeownership and suburbanization for Hispanics changed since 1990?
- •Were suburbanizing Hispanics mainly homeowners?
- •Used PLACE, COUNTY, and MSA geographies
- Suburbs defined by PLACE

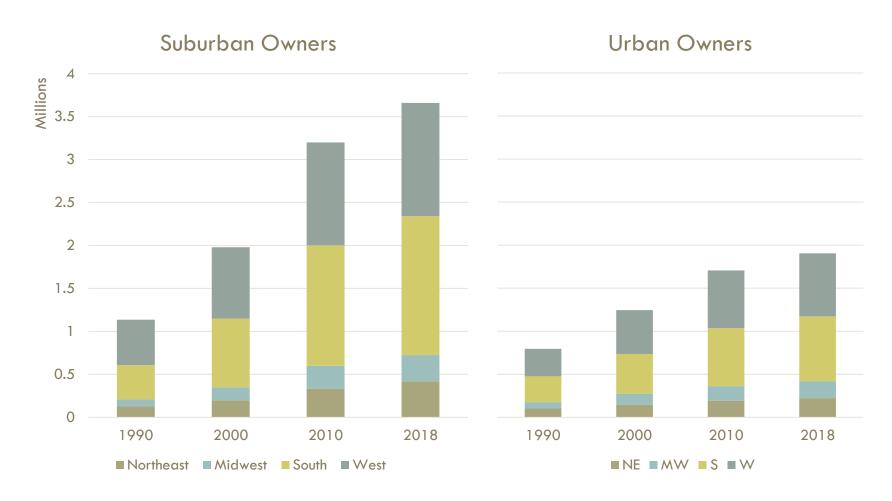
PUMS microdata

- •What are the drivers of a joint tenure-location choice?
- •How do these drivers differ between Hispanics and non-Hispanic whites?
- Used PUMA geography
- Suburbs defined by PLACE-PUMA crosswalk; less precise

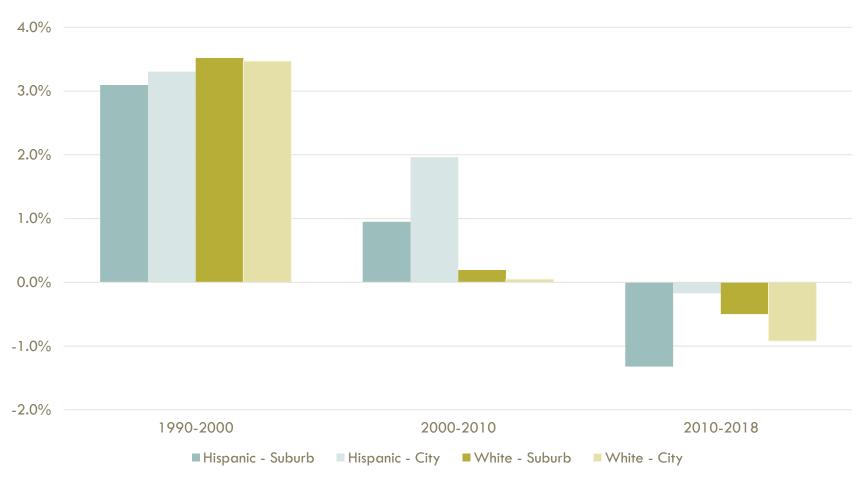
PUBLISHED TABLES: HISPANIC HOUSEHOLD GROWTH, CITIES & SUBURBS



PUBLISHED TABLES: GROWTH IN HISPANIC OWNERS



PUBLISHED TABLES: CHANGE IN HOMEOWNERSHIP RATE

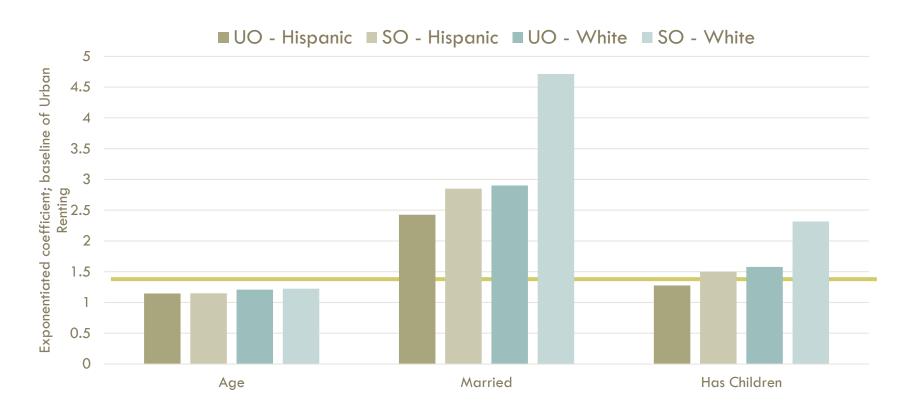


PUMS: REGRESSIONS AT HOUSEHOLD LEVEL

Table 5: Multinomial logit results of tenure and location choice

	White (baseline: Urban Renter)			Hispanic (baseline: Urban Renter)			
	Urban Owner	Suburban Renter	Suburban Owner	Urban Owner	Suburban Renter	Suburban Owner	
Female	1.033*** (0.00728)	1.065*** (0.00693)	1.072*** (0.00659)	1.002 (0.0113)	0.986 (0.00935)	1.001 (0.0100)	
Age	1.217*** (0.00306)	1.037*** (0.00214)	1.246*** (0.00263)	1.145 *** (0.00467)	1.018*** (0.00307)	1.148 *** (0.00408)	
Age squared	0.999*** (0.0000288)	1.000*** (0.0000247)	0.998*** (0.0000245)	0.999 *** (0.0000466)	1.000*** (0.0000364)	0.999 *** (0.0000410)	
Married	2.849*** (0.0239)	1.288*** (0.0103)	4.676*** (0.0345)	2.411 *** (0.0310)	1.264*** (0.0133)	2.827 *** (0.0321)	
Has Children	1.614*** (0.0148)	1.982*** (0.0170)	2.334*** (0.0188)	1.240 *** (0.0158)	1.293 *** (0.0137)	1.475 *** (0.0166)	
Log household income	1.262*** (0.00362)	1.018*** (0.00163)	1.291*** (0.00280)	1.402*** (0.00854)	1.042*** (0.00267)	1.544*** (0.00852)	
Log investment income	1.102*** (0.00137)	0.965*** (0.00136)	1.073*** (0.00125)	1.180*** (0.00390)	1.002 (0.00383)	1.155*** (0.00366)	
Less than high school	0.629*** (0.0126)	0.791*** (0.0125)	0.487*** (0.00786)	0.849 *** (0.0135)	0.845 *** (0.0105)	0.770 *** (0.0107)	

PUMS: AGE, MARRIAGE, AND KIDS PREDICT OWNING & SUBURBS



PUMS: IMMIGRATION HISTORIES MATTER, ESPECIALLY FOR HISPANICS

