Goodwin Figure Notes

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1   Data Sources

All data from Ruggles et al. (2022) (IPUMS USA). The source for the migration map was the full 1900 Census, and the source for the other two was the 2015-2019 American Community Survey.

2   Data Manipulation

The data was manipulated significantly. For details and direct code example, use goodwin-code-source.html. It will have all the details in exact detail. The datasets themselves were relatively similar, but I had to load them into a local postgressql database, as R could not fit all the 1900 census in memory at once. For each individual figure, the amount of editing is different.

2.1 Migration Figure

I did the following things:

1. Changed FIPS encoding over to state by state encoding

2. Filtered for people both born in Georgia that lived in other states, and people born in other States that lived in georgia.

3. Used ggplot to create two maps showing this, and stitched them together.

2.2 Marital Status Figure

I did the following things to the 2015-2019 ACS

1. Bucketed by age in the same way the original figure bucketed by age
2. Calculate person-weighted statistics for each bucket and sex, filtered for only African Americans.
3. Made a female and male figure using ggplot, with one being mirrored. Changed the margins and stitched them together so it would look like a population pyramid.

2.3 Employment Figure

1. Calculated person-weighted percentages for every 2010 OCCSCORE code, grouped by race.
2. Created a long case_when statement, creating various broader employment categories based on ranges of OCC2010 codes.
3. Grouped and pivoted them into showing the percentages of African Americans in each, along with overall totals
4. Created figure showing theses, ordered by percentage difference.
5. Created another figure with the top and bottom 8 specific OCC2010 codes (instead of the groupings), and attatched it to the original figure.

Bibliography

Ruggles, Steven, Sarah Flood, Ronald Goeken, Megan Schouweiler, and Matthew Sobek. 2022. "IPUMS USA: Version 12.0." Minneapolis, MN: IPUMS. https://doi.org/10.18128/D010.V12.0.