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Methods

We report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the study.

Participants

Material

Procedure

Data analysis

We used R (Version 4.0.3; R Core Team, 2020) and the R-packages *arsenal* (Version 3.5.0; Heinzen, Sinnwell, Atkinson, Gunderson, & Dougherty, 2020), *dplyr* (Version 1.0.2; Wickham et al., 2020), *forcats* (Version 0.5.0; Wickham, 2020a), *ggplot2* (Version 3.3.2; Wickham, 2016), *papaja* (Version 0.1.0.9997; Aust & Barth, 2020), *patchwork* (Version 1.0.1; Pedersen, 2020), *purrr* (Version 0.3.4; Henry & Wickham, 2020), *readr* (Version 1.3.1; Wickham, Hester, & Francois, 2018), *readxl* (Version 1.3.1; Wickham & Bryan, 2019), *stringr* (Version 1.4.0; Wickham, 2019), *tibble* (Version 3.0.3; Müller & Wickham, 2020), *tidyr* (Version 1.1.2; Wickham, 2020b), and *tidyverse* (Version 1.3.0; Wickham, Averick, et al., 2019) for all our analyses.

21 **Results**

22 **Data Description**

23 **Data transformation**

24 **Modeling**

25 **Association.**

26 **Adjusting Confounders.**

27 **Discussion**

28 **Gini is not a main predictor of Hate crime**

29 **Why income eliminated**

30 **(Collinear)**

31 **Limitation**

32 **Sample size.**

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Appendix

Table 1

Summary Statistics, 2016

| | Overall (N=44) |
|---|----------------------------------|
| unemployment | |
| - high | 22 (50.0%) |
| - low | 22 (50.0%) |
| urbanization | |
| - low | 21 (47.7%) |
| - high | 23 (52.3%) |
| median_household_income | |
| - Mean (SD) | 55004.545 (8860.066) |
| - Median (Q1, Q3) | 54613.000 (47844.750, 60542.250) |
| - Min - Max | 39552.000 - 76165.000 |
| perc_population_with_high_school_degree | |
| - Mean (SD) | 0.867 (0.033) |
| - Median (Q1, Q3) | 0.871 (0.839, 0.894) |
| - Min - Max | 0.799 - 0.915 |
| perc_non_citizen | |
| - Mean (SD) | 0.054 (0.030) |
| - Median (Q1, Q3) | 0.045 (0.030, 0.080) |
| - Min - Max | 0.010 - 0.130 |
| gini_index | |
| - Mean (SD) | 0.454 (0.018) |
| - Median (Q1, Q3) | 0.455 (0.441, 0.466) |
| - Min - Max | 0.419 - 0.499 |
| perc_non_white | |

| | |
|---------------------------|----------------------|
| - Mean (SD) | 0.310 (0.142) |
| - Median (Q1, Q3) | 0.290 (0.208, 0.420) |
| - Min - Max | 0.060 - 0.620 |
| hate_crimes_per_100k_splc | |
| - Mean (SD) | 0.275 (0.171) |
| - Median (Q1, Q3) | 0.226 (0.143, 0.339) |
| - Min - Max | 0.069 - 0.833 |

Table 2

| model | estimate_coefficient_(CI) | p_value |
|---|---------------------------|---------|
| unemployment | 0.456 (-0.62 , 1.533) | 0.406 |
| urbanization | 0.218 (-0.841 , 1.277) | 0.684 |
| median_household_income | 0.316 (-0.166 , 0.797) | 0.205 |
| perc_population_with_high_school_degree | 0.628 (0.138 , 1.118) | 0.02 |
| perc_non_citizen | 0.375 (-0.187 , 0.937) | 0.197 |
| gini_index | -0.302 (-0.791 , 0.186) | 0.23 |
| perc_non_white | -0.217 (-0.717 , 0.283) | 0.394 |

Table 3
Association table

| term | model_1 | model_2 | model_3 |
|---|-------------------------|----------------------------|---------------------------|
| perc_population_with_high_school_degree | 0.628 (0.138 , 1.118) | 0.23 (-0.454 , 0.915) | 0.609 (0.023 , 1.195) |
| unemploymentlow | NA | 0.039 (-0.611 , 0.69) | NA |
| urbanizationhigh | NA | -0.419 (-1.268 , 0.429) | NA |
| median_household_income | NA | -0.167 (-0.706 , 0.371) | NA |
| perc_non_citizen | NA | 1.621 (0.974 , 2.268) | NA |
| gini_index | NA | -0.528 (-0.965 , -0.092) | -0.033 (-0.547 , 0.481) |
| perc_non_white | NA | -0.831 (-1.334 , -0.327) | NA |

Note. some note

Table 4

Model Selection

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| term | model_3 | model_4 | model_5 |
|--|---------------------------|---------------------------|---------------------------|
| perc_population_with_high_school_degree | 0.609 (0.023 , 1.195) | 0.885 (-0.042 , 1.811) | 0.544 (-0.127 , 1.215) |
| gini_index | -0.033 (-0.547 , 0.481) | -0.123 (-0.698 , 0.453) | -0.007 (-0.664 , 0.65) |
| unemploymentlow | NA | 0.279 (-0.775 , 1.334) | NA |
| perc_population_with_high_school_degree:unemploymentlow | NA | -0.532 (-1.764 , 0.699) | NA |
| urbanizationhigh | NA | NA | -0.126 (-1.546 , 1.294) |
| perc_population_with_high_school_degree:urbanizationhigh | NA | NA | 0.536 (-1.104 , 2.176) |

Note. some note

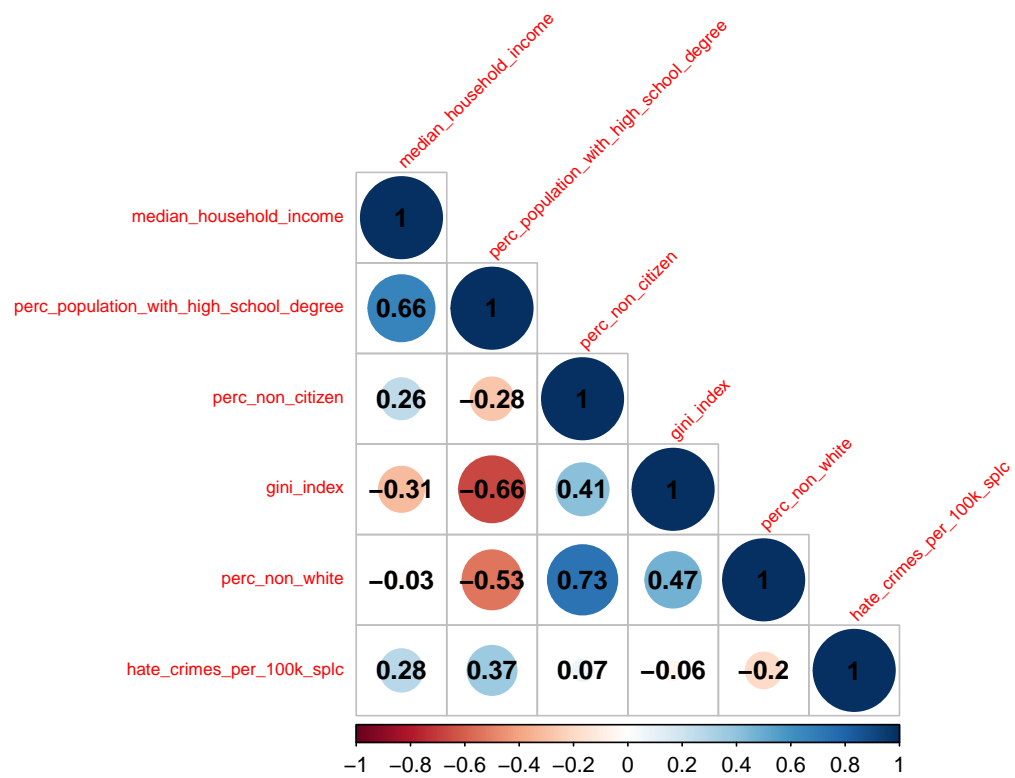


Figure 1. Correlation Plot

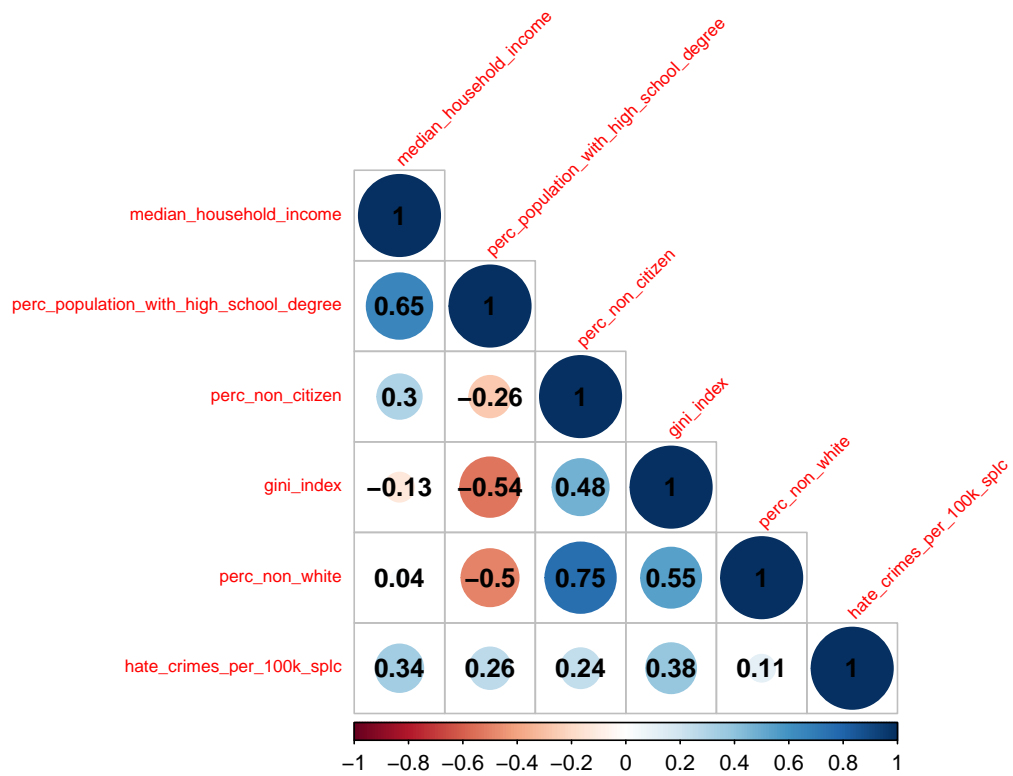


Figure 2. (#fig:correlation_organ)Original Correlation Plot

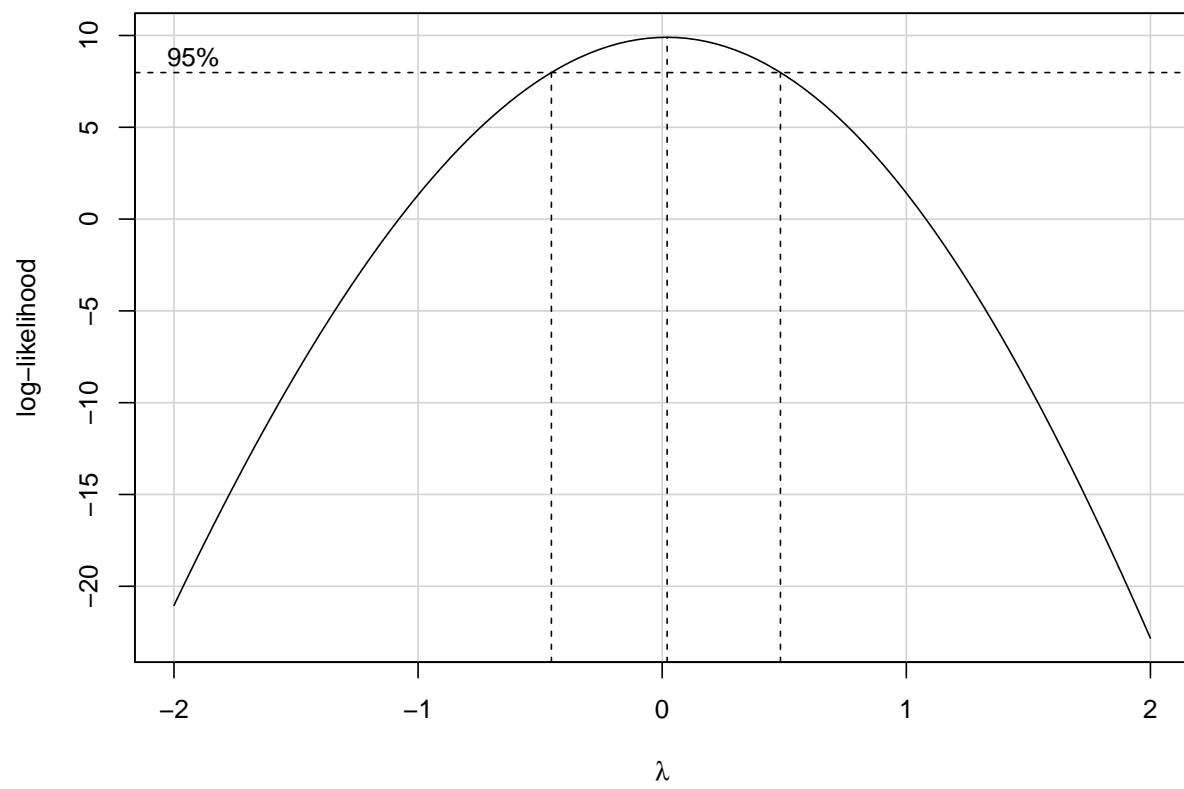


Figure 3. Box-Cox transformation