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The authors made the following contributions. First Author: Conceptualization, Writing - Original Draft Preparation, Writing - Review & Editing; Ernst-August Doelle: Writing - Review & Editing.

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## Abstract

One or two sentences providing a **basic introduction** to the field, comprehensible to a scientist in any discipline.

Two to three sentences of **more detailed background**, comprehensible to scientists in related disciplines.

One sentence clearly stating the **general problem** being addressed by this particular study.

One sentence summarizing the main result (with the words “**here we show**” or their equivalent).

Two or three sentences explaining what the **main result** reveals in direct comparison to what was thought to be the case previously, or how the main result adds to previous knowledge.

One or two sentences to put the results into a more **general context**.

Two or three sentences to provide a **broader perspective**, readily comprehensible to a scientist in any discipline.

*Keywords:* keywords

Word count: X

The title

## 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.

48 **Results**

49 **Data Description**

50 **Data transformation**

51 **Modeling**

52 **Association.**

53 **Adjusting Confounders.**

54 **Discussion**

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

56 **Why income eliminated**

57 **(Collinear)**

58 **Limitation**

59 **Sample size.**

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## 92 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_income	
- Mean (SD)	55004.545 (8860.066)
- Median (Q1, Q3)	54613.000 (47844.750, 60542.250)
- Min - Max	39552.000 - 76165.000
education	
- 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	
- Mean (SD)	0.275 (0.171)
- Median (Q1, Q3)	0.226 (0.143, 0.339)
- Min - Max	0.069 - 0.833



Table 2  
*Association table*

term	model_1	model_2	model_3
education	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_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 3  
*Model Selection*

term	model_3	model_4	model_5
education	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
education:unemploymentlow	NA	-0.532 ( -1.764 , 0.699 )	NA
urbanizationhigh	NA	NA	-0.126 ( -1.546 , 1.294 )
education:urbanizationhigh	NA	NA	0.536 ( -1.104 , 2.176 )

*Note.* some note

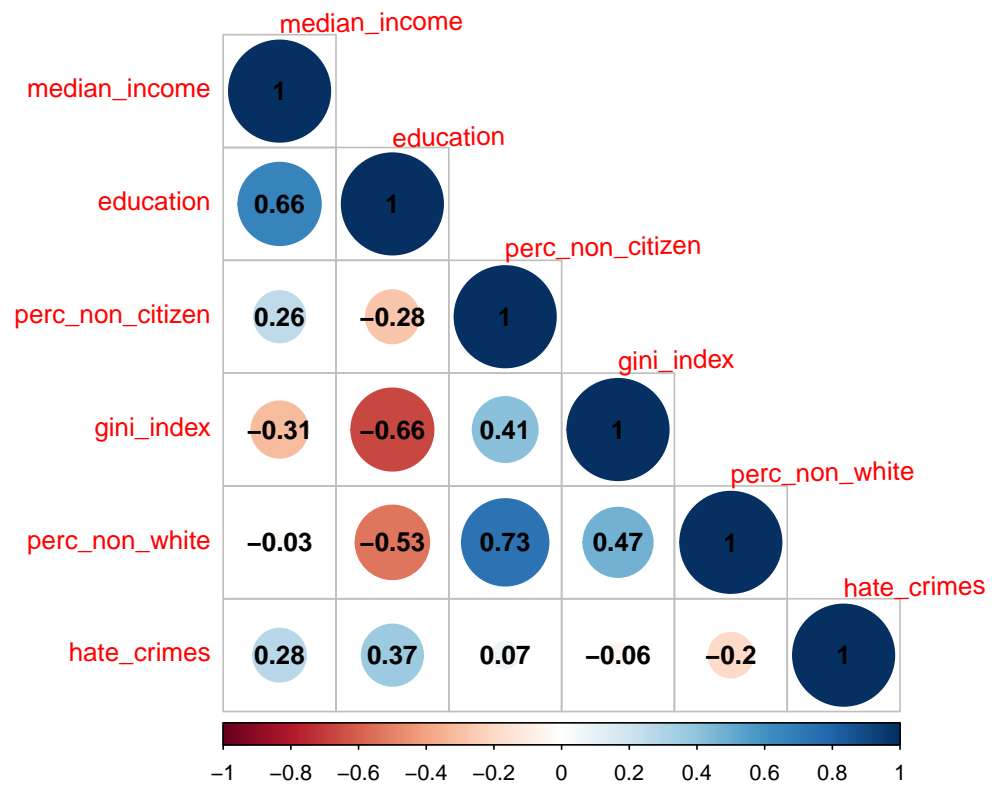


Figure 1. Correlation Plot

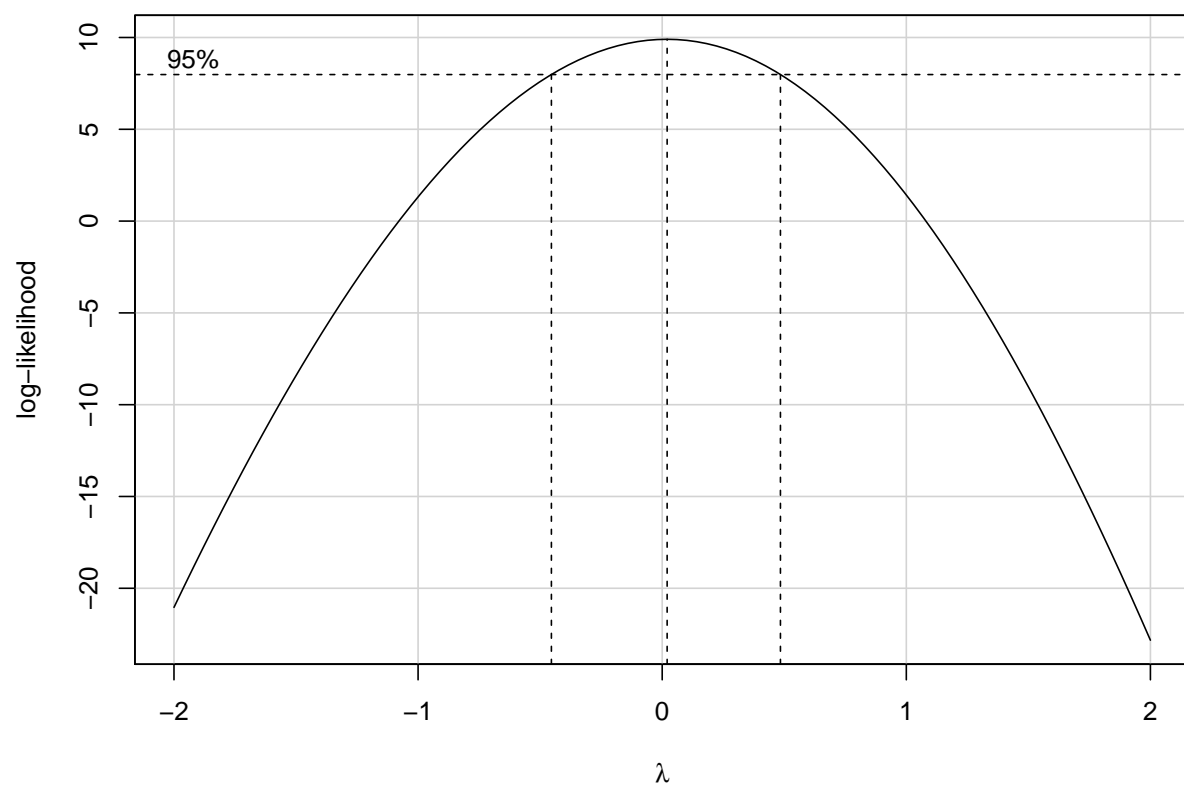


Figure 2. Box-Cox transformation