

# School District Secession in East Baton Rouge

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## Abstract

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## Proposal

I am interested in examining the relationships between school performance, race, and socioeconomic indicators (including income and percentage of “economically disadvantaged”<sup>1</sup> students). Furthermore, I am interested in examining this data within the context of school district “secession.”<sup>2</sup> I have chosen to focus on schools within East Baton Rouge Parish, Louisiana for two reasons: (1) there are stark differences among school districts with regard to school and school district performance [CITATION HERE], and (2) residents in the southeast corner of the Parish recently voted to incorporate as the City of St. George with the intention of forming a new school district [CITATION HERE]. If successful in creating a new school district, St. George will be the fourth new district to “secede” from the original East Baton Rouge Parish School District in two decades.

I propose to investigate the following research questions:

- Is there evidence that suggests the clustering of racial groups in East Baton Rouge (EBR) Parish?
- Is there evidence of the clustering of income levels in EBR Parish?
- Is there evidence of racial stratification of income?
- Is there evidence to suggest that school performance is linked to the racial makeup of the student body, the percentage of economically disadvantaged students, and/or the percentage of students fully proficient in English?

## Abstract

## Introduction

## Methods

- Local Moran’s I
- Local Moran’s I with EB rates
- Bivariate Local Moran’s I
- OLS Regression
- Spatial Regression

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<sup>1</sup>I use the Louisiana Department of Education’s data on percentages of economically disadvantaged students. I have yet to find sufficient metadata explaining how they define “economically disadvantaged,” but comparing current school and school district performance reports with past reports suggests that this may be the percentage of students on free or reduced lunch plans.

<sup>2</sup>See CITATION HERE for a thorough explanation of the school district “secession” phenomenon.

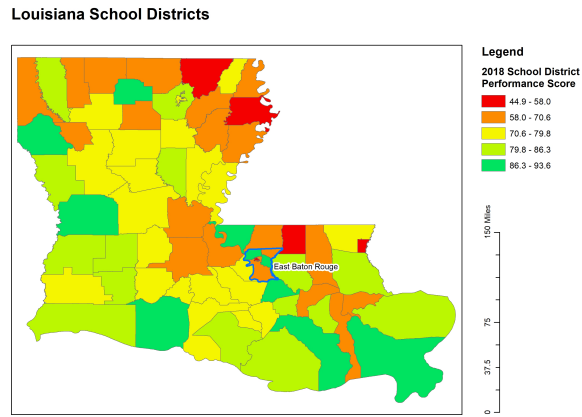


Figure 1: Louisiana school district performance for the 2017-2018 academic year. East Baton Rouge Parish is outlined in blue and labeled.

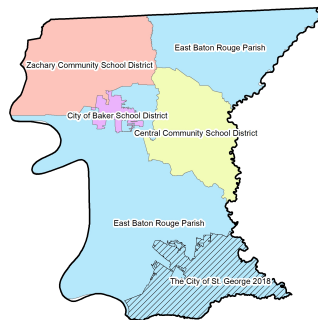
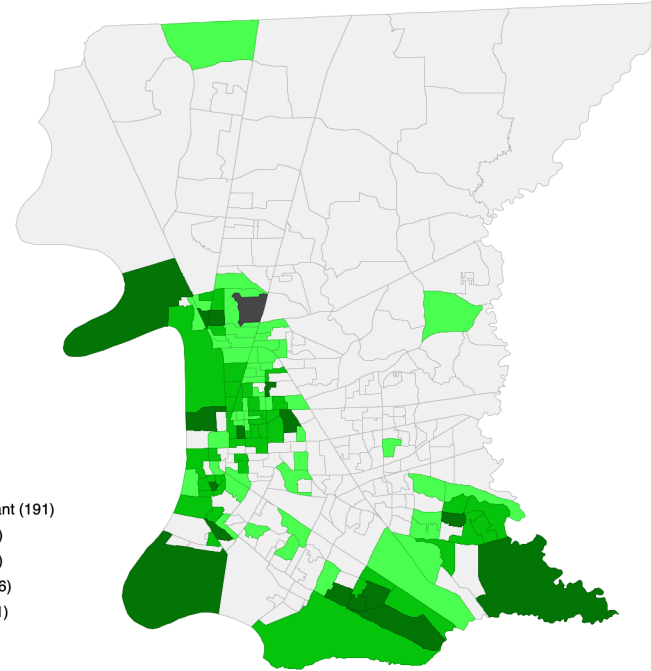
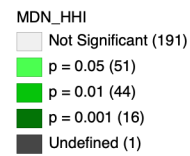
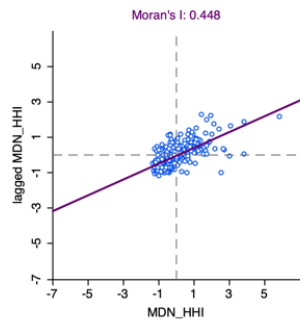


Figure 2: East Baton Rouge Parish school districts and the area of the City of St. George as proposed in 2018.

## Results

### Local Moran's I

Median Household Income



Population Percentage White

Local Moran's I with EB rates

- Population Percentage White

Bivariate Local Moran's I

- Median Household Income vs Lagged Population % White

OLS Regression

Spatial Regression

Discussion

Citations

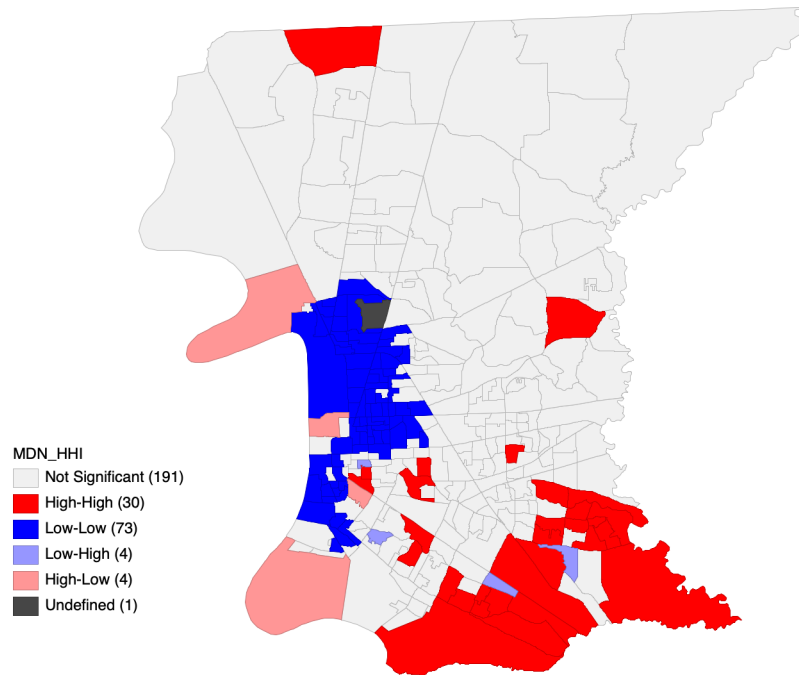


Figure 3: Cluster map.

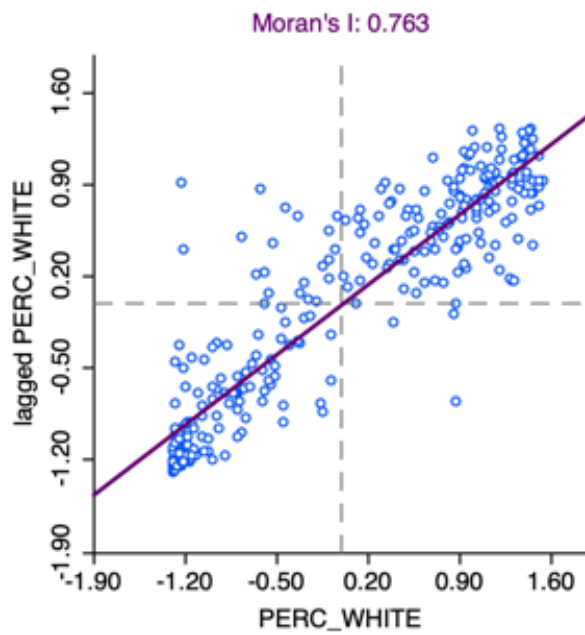


Figure 4: Lagged population percentage white versus population percentage white.

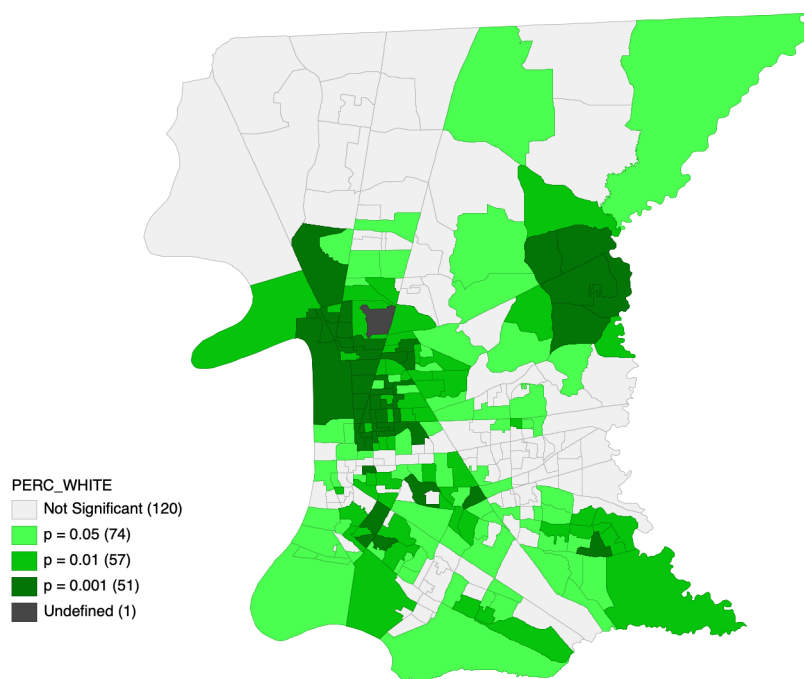


Figure 5: Significance map.

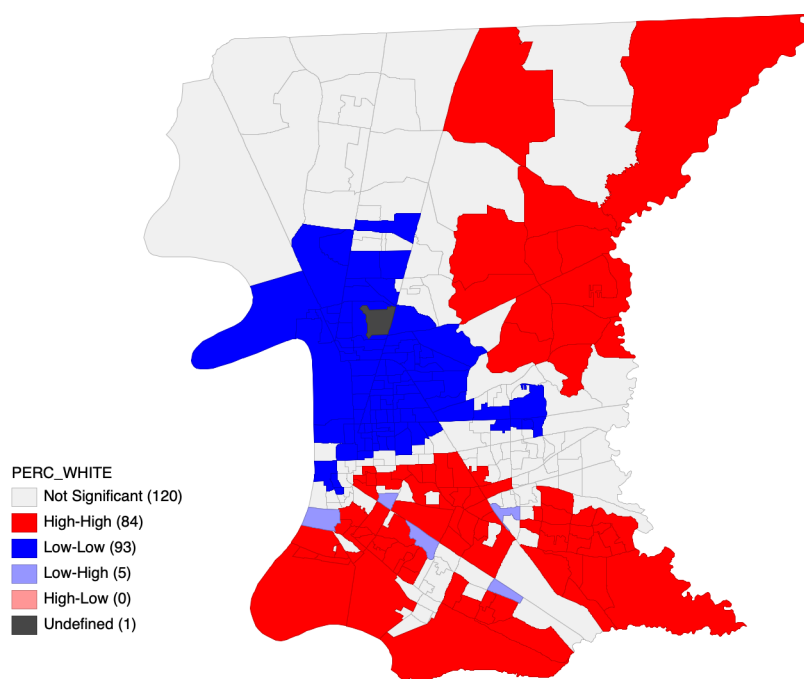


Figure 6: Cluster map.

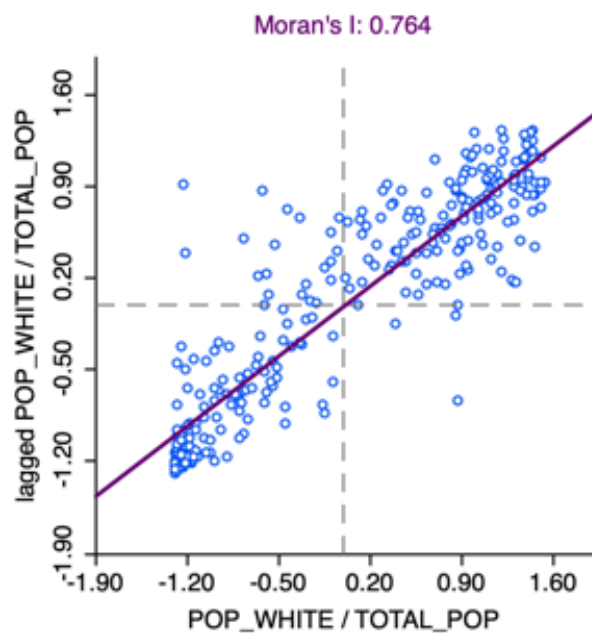


Figure 7: Lagged population percentage white versus population percentage white.

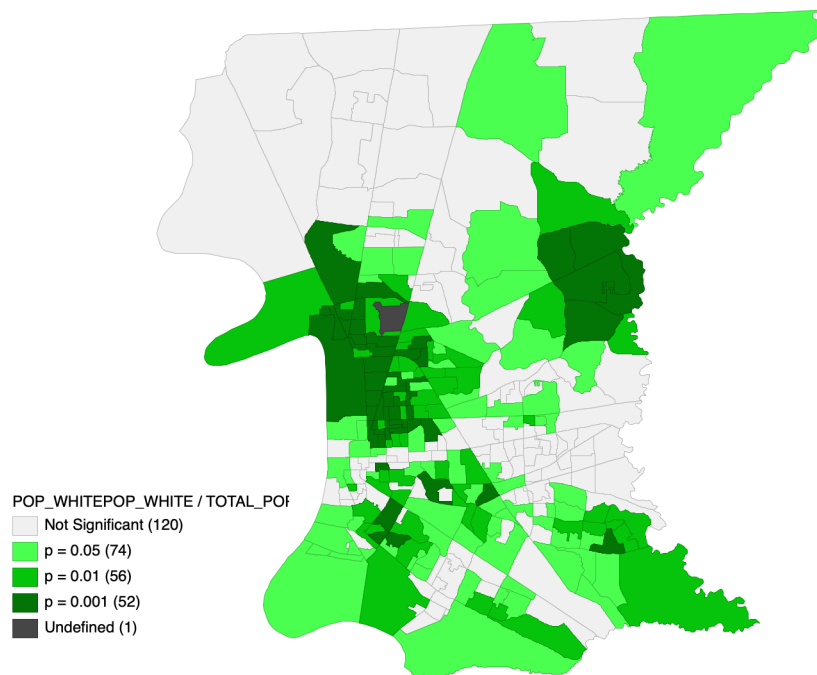


Figure 8: Significance map.

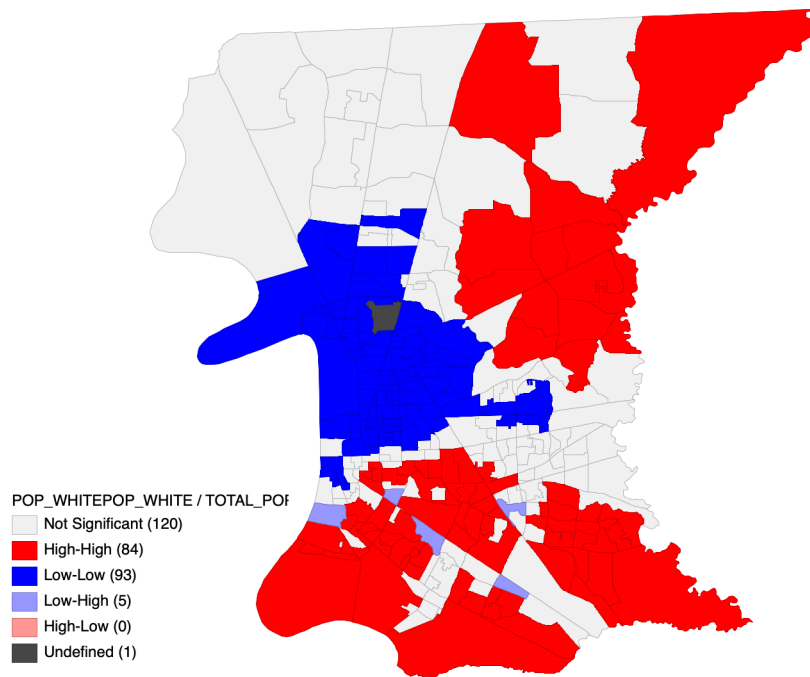


Figure 9: Cluster map.

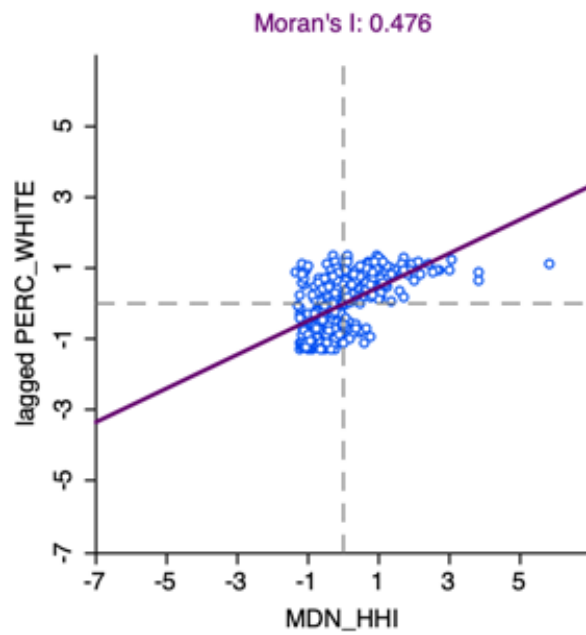


Figure 10: Lagged population percentage white versus population percentage white.

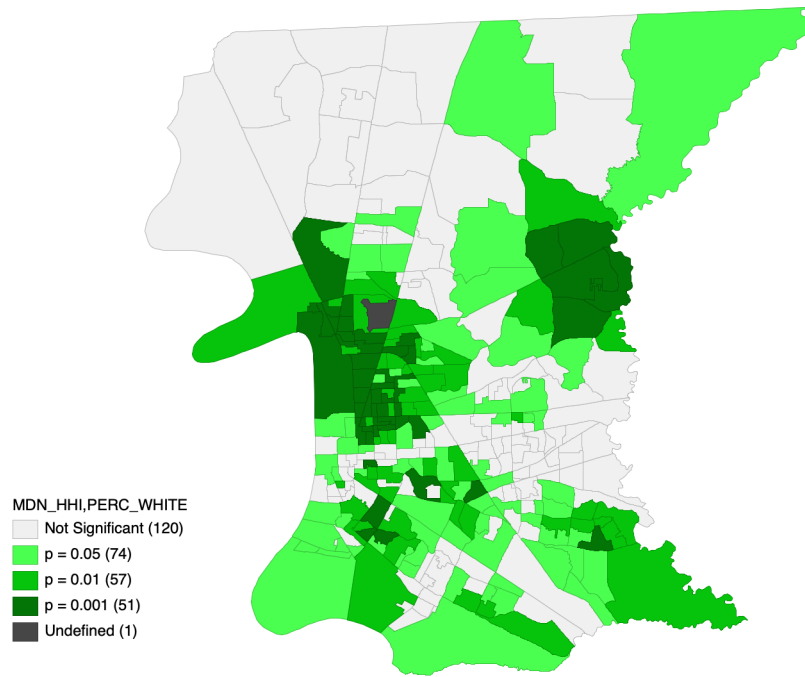


Figure 11: Significance map.

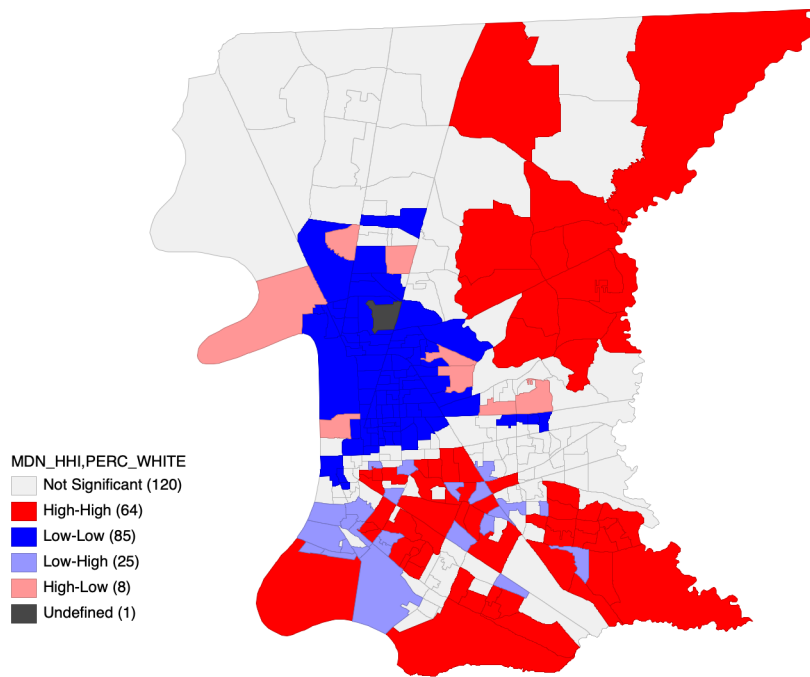


Figure 12: Cluster map.