Is it Still the Economy Stupid?

A Spatial Regression Analysis of the 2016 Presidential Election Using the American Community Survey Data and Other Materials

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Unexpected Victor Led to Many Hypotheses

- Decline of the White Working Class
 - Decline of Rural Economy (e.g., coal)
 - Rising Mortality Rates of Whites or White Males
 - Opioid and other Drug Use
- Racism and Sexism
- Weak Campaign of Clinton in Some Swing and "Blue Wall" States
 - Too Much Emphasis on Identity Politics (Gender, LGBT, Minorities)
 - Not Enough Emphasis on Issues Affecting Economy
 - Revolt of the Bernie Bros
- Targeted Social Media











Modelling the Election Using ACS and Voting Data

- Since the ACS is released yearly it is a better proxy for the demographic of a given area
- The file prepared by the Census Redistricting Office for Citizen of Voting Age Population very helpful
- The many social and demographic variables make it possible to test a variety of hypotheses
- The only drawback is vintage. We use the 2011 to 2015 (which centers on 2013) for demographics.

Preliminary Analysis of Election at the County Level—Using Spatial Regression

- Much Analysis of the 2016 and earlier elections uses simple comparisons of some factors with turnout and vote in various areas (often states or counties)
- Here we report a spatial regression analysis (at the county level) of the Trump victory, as a first step towards a more nuanced analysis
- Here we will compare the difference in results based upon a ordinary least squares regression and a spatial regression

Major Hypotheses and Assertions about the Election

- Trump's victory revolved around shifting six states from Obama's win in 2012 (Iowa, Wisconsin, Michigan, Ohio, Pennsylvania, and Florida)
- Common assertion is that it is non-college educated white men, who turned the tide
- This is seen as related to economic distress of such whites
- Here we test this for the all US counties
- We use both an Ordinary Least Squares and Spatial Error Regression Model

Voting for Trump (Model 1)		
	OLS	Spatial Error
Proportion white	0.882***	0.880***
	-0.019	-0.018
Proportion black	0.392***	0.059*
	-0.023	-0.024
Proportion male	1.442***	0.966***
	-0.156	-0.107
Proportion no college education	0.634***	0.429***
	-0.022	-0.019
Proportion unemployed	-0.644***	-0.231**
	-0.088	-0.087
Proportion voting age population	-0.748***	-0.485***
	-0.066	-0.056
Constant	-0.582***	-0.500***
	-0.095	-0.063
Observations	3,107	3,107
Note:	p<0.05; p<0.01; p<0.001	

Comparison of OLS and Spatial Regression Model 1



■ OLS ■ Spatial

Voting for Trump (Model 2)		
	OLS	Spatial Error
Proportion white	0.937***	0.897***
	-0.019	-0.018
Proportion black	0.403***	0.068**
	-0.025	-0.024
Proportion male	1.582***	1.162***
	-0.166	-0.112
Proportion no college education (male)	0.242***	0.01
	-0.069	-0.052
Proportion no college education (female)	0.316***	0.391***
	-0.08	-0.061
Proportion unemployed (white)	0.026	0.285**
	-0.096	-0.09
Proportion voting age population	-0.804***	-0.484***
	-0.095	-0.063
Constant	-0.679***	-0.641***
	-0.102	-0.068
Observations	3,107	3,107
Note:	p<0.05; p<0.01; p<0.001	

Comparison of OLS and Spatial Regression Model 2















Results of this Preliminary Analysis

- There is a strong spatial association of voting in the election, beyond the simple OLS results
- There is a strong relationship of proportion white on voting for Trump
- There is no association with the proportion of non-college white males, rather the association is with non-college white females
- The association of unemployment among whites is strong

Plans for Further Analysis

- Adding other years to see if the patterns are similar over time
- Using other data, include campaign activity and evidence of social media use (at the state level) to see if "swing state" patterns are different
- In all of this, the ACS and the Census Long Form (we plan to go back to 1980) are crucial
- We plan to deploy both a fixed effects and a mixed model strategy