Social Capital and Mortgage Delinquency

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Summary of the Paper

The paper tests the effect of social capital on mortgage delinquency.

Data:

County-Year level data from 1999 to 2011 for 2220 counties in the U.S.

- Social Capital Index from Rupasingha et al. (2006): 1997, 2005, 2009
- Mortgage delinquency, and various county-level characteristics

Findings:

- The increase in Social Capital lowers the likelihood of mortgage delinquency, controlling for other factors.
- The effect is more pronounced during post-crisis period than pre-crisis period.

Conclusion: Social capital matters for mortgage default risk.

Comment 1. Research Design

A. Social Capital Index is very persistent

The index is the principal component of the county-level variables such as 1) % of voters in presidential elections, 2) response rate to decennial Census, 3) # of tax exempt non-profit organization, and 4) the associational density using # of bowling centers, golf clubs, fitness centers, and # of civic/sport/religious/political/labor /business/professional organizations.

	SCI 1997	SCI 2005	SCI 2009	2005-2009: 4 years Low Social Capital 05 High Social Capital 05	Low Social Capital 09 87.01 12.94	High Social Capital 09 12.99 87.06		
Social Capital Index 1997	1	2005	_009		12.54	87.00		
Social Capital Index 2005	0.94	1		1997-2005: 8 years	Low Social Capital 05	High Social Capital 05		
Social Capital Index 2009	0.89	· ·		Low Social Capital 97	90.8	9.2		
)	70	_	High Social Capital 97	9.27	90.73		
	1997-2009: 12 years Low				Low Social Capital 09	High Social Capital 09		
				Low Social Capital 97	w Social Capital 97 84.75 15.25			
				High Social Capital 97	15.25	84.75		

- ➤ Variations are mostly in C-X.
- > Interpolation makes the persistency worse.
- Suggestion: a C-X of Social Capital=> How does affect in future outcomes?

Comment 1. Research Design

B. Main Research Question

Given the strategic default option, how does social capital affect on delinquency by reducing opportunistic behavior?

=> Key is the interaction term: **Social Capital x Strategic Default Option**

What are the factors affecting the strategic default option? a. Negative equity

- b. Ghent and Kudlyak (2011) : recourse vs non-recourse state
 Amplified for homes with high appraisal value/ Private securitized loans
- c. Guiso, Sapienza, and Zingales (2013)
 - Cost of leaving (length of stay), older/black or Hispanic population
- d. Other types of credits
 - i.e. Auto Loan and Credit Card Loan / subprime credit
- e. Change in Unemployment, Change in Income, Change in Home Price

Social Capital Index is a function of many different factors.

This paper claims:



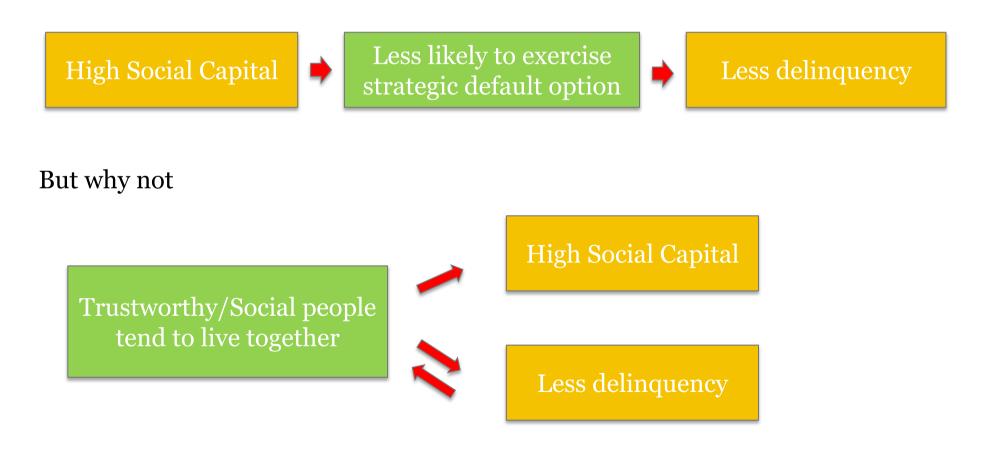
Less likely to exercise strategic default option

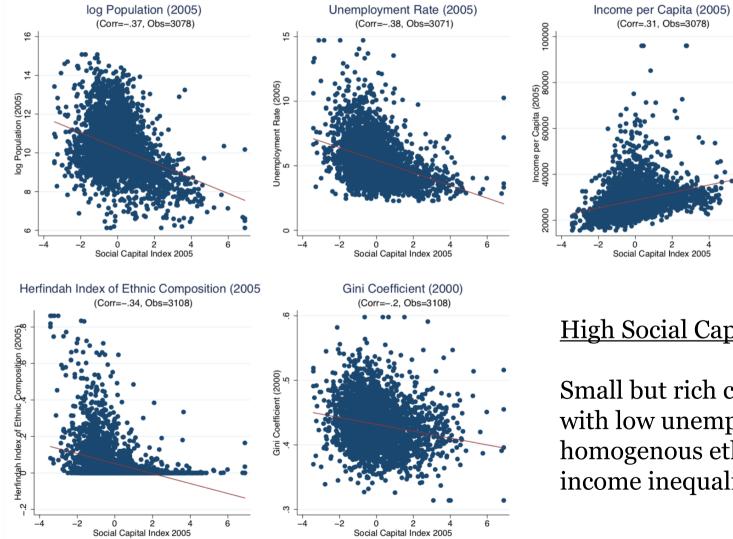


Less delinquency

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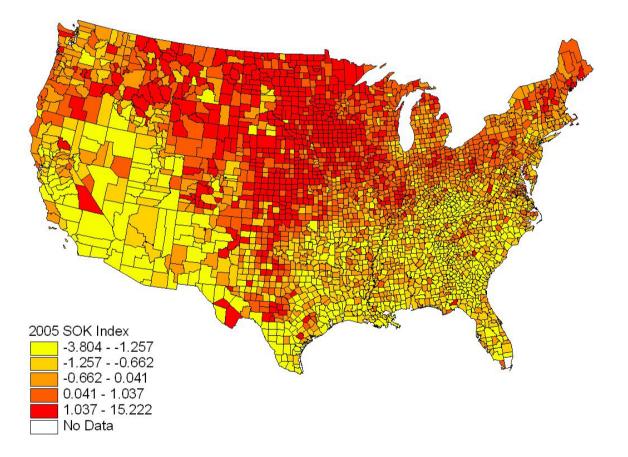




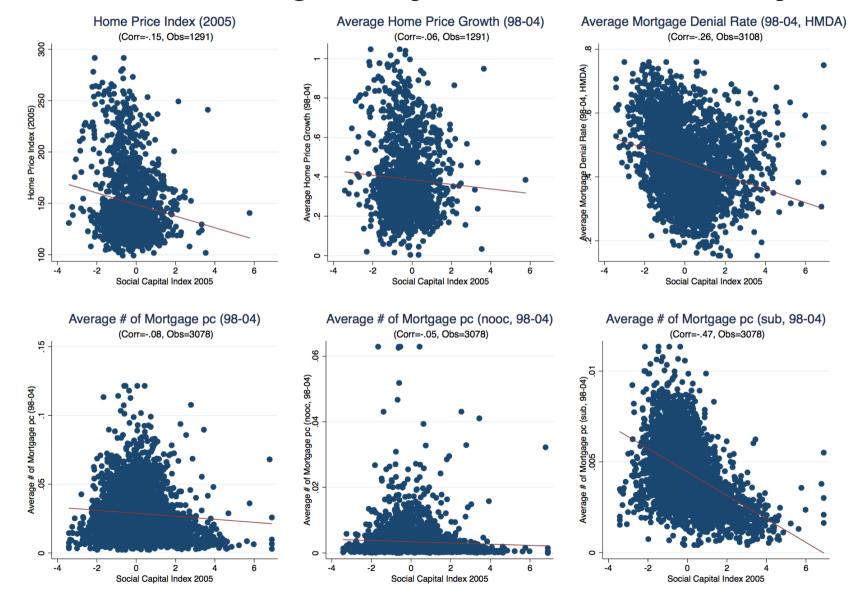
High Social Capital Counties

Small but rich counties with low unemployment, homogenous ethnicity, less income inequality!

County-level social capital levels, 2005



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	No Fixed Effects				State Fixed Effects						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
VARIABLES		Social Capital Index (2005)					Social Capital Index (2005)				
log Population (2005)	-0.187***	-0.247***	-0.183***	-0.204***	-0.117***	-0.180***	-0.209***	-0.171***	-0.189***	-0.155***	
	(-7.300)	(-9.555)	(-7.069)	(-7.874)	(-4.555)	(-9.027)	(-10.23)	(-8.457)	(-9.393)	(-7.438)	
Unemployment Rate (2005)	-0.0547***	-0.0197	-0.0533***	-0.0527***	-0.0190	-0.0962***	-0.0692***	-0.0986***	-0.0964***	-0.0843***	
	(-3.213)	(-1.186)	(-3.100)	(-3.088)	(-1.074)	(-5.476)	(-3.858)	(-5.599)	(-5.506)	(-4.745)	
Income per Capita (2005)	4.25e-05***	2.23e-05***	*4.41e-05***	4.37e-05***	3.93e-05**	*3.16e-05***	2.42e-05***	*3.46e-05***	3.23e-05***	*3.10e-05***	
	(10.70)	(6.068)	(9.412)	(10.92)	(9.906)	(9.748)	(7.181)	(8.718)	(9.875)	(9.671)	
Herfindahl Index of Ethnic Composition (2005	-3.154***	-2.126***	-3.205***	-3.250***	-3.089***	-1.815***	-1.404***	-1.910***	-1.861***	-1.860***	
	(-10.23)	(-7.080)	(-10.24)	(-10.48)	(-9.536)	(-6.744)	(-4.911)	(-7.045)	(-6.882)	(-6.642)	
Gini Coefficient (2000)	-0.330	1.315*	-0.556	0.00532	-2.355***	4.478***	4.664***	4.029***	4.624***	3.564***	
	(-0.451)	(1.783)	(-0.697)	(0.00714)	(-3.097)	(7.687)	(8.081)	(6.157)	(7.825)	(5.247)	
Home Price Index (2005)	-0.0140***	-0.0121***	-0.0140***	-0.0131***	-0.0131***	0.00549***	0.00613**	+0.00526***	0.00484**	0.00558***	
	(-8.903)	(-8.167)	(-8.941)	(-8.386)	(-8.633)	(-3.289)	(-3.723)	(-3.109)	(-2.817)	(-3.330)	
Average Home Price Growth (98-04)	1.759***	1.294***	1.779***	1.726***	1.685***	-0.147	-0.125	-0.116	-0.164	-0.0484	
	(5.813)	(4.521)	(5.870)	(5.818)	(5.773)	(-0.526)	(-0.455)	(-0.420)	(-0.591)	(-0.172)	
Average Mortgage Denial Rate (98-04)	. ,	-4.172***					-1.847***			. ,	
		(-13.47)					(-5.451)				
# of Origination per Capita (98-04)		· · · ·					(/				
			-1.456					-3.082*			
Total			(-0.737)					(-1.729)			
			· · · ·	-14.95***				. ,	-7.093*		
Nonowner occupied				(-3.183)					(-1.791)		
				. ,	-152.7***				· · ·	-46.19***	
Subprime					(-11.13)					(-3.395)	
Observations	1,276	1,276	1,276	1,276	1,276	1,275	1,275	1,275	1,275	1,275	
R-squared	0.329	0.408	0.329	0.335	0.394	0.689	0.698	0.690	0.690	0.693	

IV approach?

- 1. (3 or 5 years) Lagged Social Capital Index: Persistent
- 2. Organ donation per capita: Similar problem to the Social Capital Index
- 3. Distance to Canadian border: Exclusion restriction?
- 4. Average Social Capital Index in 100 miles: Is this state-level effect?

Suggestions

- "Change in Social Capital Index" on "Change in Delinquency Rate"

 County Fixed effect and Social Capital interacted with the measures of strategic default option.
- 2. Random shock to the Trust in Society
 - Similar to Boston Terror in Kumar et al. (2015)
 - Major gun accidents using the distance to the accident.

Concluding Remarks

- Enjoyed reading the paper.
- It is interesting to find the role of social capital on delinquency behavior.
- Further effort to pin down the causality will significantly enhance the paper.