#### **Credit Scores and Committed Relationships**

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#### What We Find

- Positive sorting w.r.t. partners' credit scores
  - Measured at the onset of their committed relationships, controlling for other characteristics
- Credit scores converge for couples when they live together
- Initial credit score conditions (levels and match quality) strongly predict subsequent relationship dissolution
  - By predicting credit-related events that directly influence likelihood of dissolution
  - Even separate from credit-related channels

### Another (Lighthearted) Summary of Our Findings

"can u truly love someone with a 500 credit score? that is my question to the world, stop kiddin yourself, the answer is no......the relationship will not last"

-jbubbly from datemycreditscore.com

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#### Interpretations

- Credit scores determine access to credit & predict future defaults
  - Impaired access to credit impinges household consumption smoothing
  - Financial distress strains relationships

- Credit scores reflect willingness to repay debt
  - Point to individual's level of commitment, relationship skills, and trustworthiness
  - Level and match quality of skills and commitment also affect relationships

## Contributions: Assortative Matching, Inequality, and Family Dynamics

- The assortative matching literature—Lam(1988), Watson et al(2004), Charles, Hurst and Killewald (2013), and a ton
- Income and consumption inequality—Aguiar and Bils (2015), and a ton
- Marriage dynamics, relationship skills (e.g. various papers by Stevenson and Wolfers, Voena 2013, and Kambourov et al 2014)

# Contributions: Trustworthiness and Spousal Relationships

- Earlier research has shown how trust affects
  - economic success and growth—Knack and Keefer (1996), Knack and Zak (2001), Putnam (1993) and Fukuyama (1995)
  - financial developments—Guiso et al (2004)
  - stock market participation—Guiso et al (2008)
- Little is known about its role in spousal relationships
  - "Family is the cell of society"
  - Marriage is a contract (Rossini 1810)
  - It is, in many aspects, an *incomplete and implicit* contract with *weak enforceability*, for which trust may play a pivotal role.

Methodological Innovations I: Using Credit Scores to Measure Trustworthiness

- Most existing measures are survey-based, self-reported and subjective.
  - World Value Survey—"do you think most people are trustworthy or you cannot be too careful."
  - But interpretations of answers to such questions remain debatable (Glaeser et al 2000, Fehr et al 2003, and Sapienza et al 2013)
- We use credit scores as an objective indicator of trustworthiness
- We present evidence on the consistency between the subjective and objective measures of trustworthiness.

# Methodological Innovations II: Identifying Spouses in CRA Data

- See the next couple of slides for algorithms
- Enable us to observe credit scores before and after relationship formation, circumventing many endogeneity concerns
  - Rarely available in household survey data

## Overview of the FRBNY Consumer Credit Panel/Equifax

- Quarterly panel of five percent random sample of US consumers with valid credit history
  - FRBNY's Quarterly Report on Household Debt and Credit
  - These are the Primary Sample individuals (about 12 million each quarter)
  - We use data from 1999Q1 to 2014Q2
- Also include other consumers who lived in the same address with a primary sample consumer (about 25 million)
- Have detailed credit record information (including credit scores)
- Cannot observe marital/cohabitating relationship directly
- However, have very detailed unscrambled location information (census block level)

#### Household Formation Algorithm

- General idea: follow people to find those who moved to live together
- Need to exclude
  - roommates
  - residents of the same apartment or dorm building
  - adult children moving back to live with parents
- In the quarterly primary sample panel data, two consumers formed a household in quarter *t* if:
  - Lived at different addresses prior to t
  - Lived at same address during next 5 quarters
  - Aged 20 to 55
  - Age difference was < 12 (PSID, etc.)
  - No other consumers (either primary or non-primary) lived at common address

#### An Alternative Algorithm on the Whole Sample

- Largely similar to the primary-sample algorithm
- Screening for the first quarter in which a non-primary sample individual began to live with a primary sample individual
- Use this sample of couples in household formation likelihood analysis and robustness analysis

### **Evaluating the Algorithm**

- Identify nearly 50,000 committed relationships in primary sample
  - Identify nearly 2 million committed relationships in primary+secondary samples
- Comparison of relationship formation rates with population statistics
  - Overall, by age, and (to a lesser extent) by state
- Comparison of Equifax couples with couples *observed* in surveys (PSID, NLSY79) and "placebo" couples also validates algorithm

Conclusion

## Evaluating Our Algorithm I—Relationship Formation Rates

	Relationship formation rates			
	Primar	y sample	Expanded sample	
	Unadjusted (1)	Adjusted (2) = $(1) \times 20$	(3)	
Age 20-55	0.108%	2.16%	2.26%	
Age 20-35	0.131%	2.62%	2.93%	
Age 36-45	0.116%	2.32%	2.35%	
Age 46-55	0.068%	1.36%	1.27%	
# of couples identified	ouples identified 49,363		2,070,117	

Population marriage rate is about 1.5% for this age group (Vital Statistics)

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# Variables of Demographic and Economic Conditions

- Merge with census block group level data from the 2000 U.S Census
  - race
  - median income
  - education

## Evaluating Our Algorithm II—Equifax Couples Look Like Other Couples

	CCP data (1)	PSID data (2)	Placebo couples (3)
Individual level characteristics			
Average age	36.7	33.5	36.1
Age difference	3.6	3.8	3.7
Age correlation	0.85	0.86	0.82
Census block group level characteristics			
% White correlation	0.63	0.66	0.01
% College degree Correlation	0.48	0.31	-0.00
Median Income Correlation	0.35	0.38	0.02

It appears that using census block group level demographic information yields reasonable correlations.

#### Household Dissolution Algorithm

In our baseline analysis, the relationship between two primary sample individuals dissolve in period t + q if:

- Live at different addresses during subsequent 5 quarters
- Never move back to shared address during observation period
- About 1 in 4 couples separated within the first four years
- About 35 percent couples separated within the first six years
- Broadly consistent with authors' estimates using the NLSY79 data.

#### Preliminaries: Positive Assortative Matching

Measure credit score levels and match quality at start of relationship (t = 0)

	Score level	Score percentile
	(1)	(2)
Within-couple correlation	0.59	0.63
Credit score standard deviations		
Across Individuals	104	26
Across Couples (mean)	92	24
Across Couples (min)	105	24
Mean within-couple score difference	69	17

The cross-individual dispersion is very similar to the cross-couple dispersion, suggesting that inequality regarding access to credit preserves through spousal relationship formation.

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### Preliminaries: Match Quality Changes Over Time



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Conclusion

### No Convergence Once Couples Separate



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#### No Convergence for Placebo Couples



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### **Descriptive Empirical Approach**

- Apply hazard framework
- Examine relationship between credit scores at t = 0 (levels and match quality) and:
  - Dissolution in between q<sub>1</sub> and q<sub>2</sub>, holding Z constant
    - Generally, Z includes demographic proxies and age, mismatch therein, and state and year FE
  - Credit use and joint account ownership between t = 0 and  $q_1$ , all else equal
  - Measures of financial distress between t = 0 and  $q_1$ , all else equal
  - Dissolution between q<sub>1</sub> and q<sub>2</sub>, holding Z and credit use, joint account ownership, and financial distress through q<sub>1</sub> constant

# Couples with Higher Scores Less Likely to Separate

		Dissolution in:				
	2nd year	3rd or 4th year	5th or 6th year			
	(1)	(2)	(3)			
(Initial Score)/100	-0.339***	-0.491***	-0.438***			
	(0.017)	(0.020)	(0.029)			
	[0.729]	[0.630]	[0.668]			
Controlling for						
Age polynomial	yes	yes	yes			
Initial char. diff.	yes	yes	yes			
Current char.	yes	yes	yes			
Local divorce rate	yes	yes	yes			
Year FE	yes	yes	yes			
State FE	yes	yes	yes			
Memo: Separation likelihood						
Monto: coparation internood	15.1%	14.9%	8.1%			

Standard errors in parentheses, odds ratios in brackets

### **Better Matched Couples Less Likely to Separate**

	2nd	Year	3rd or 4	Ith year	5th or 6	th year
<u>Initial mismatch</u> 100	(1) 0.383*** (0.020) [1.242]	(2) 0.267*** (0.024) [1.285]	(3) 0.344*** (0.025) [1.239]	(4) 0.136*** (0.029) [1.076]	(5) 0.203*** (0.039) [1.124]	(6) 0.005 (0.045) [1.003]
Initial score 100	-0.233*** (0.018) [0.776]		-0.417*** (0.020) [0.675]		-0.396*** (0.030) [0.695]	
Lower score 100		-0.233*** (0.018) [0.838]		-0.417*** (0.020) [0.637]		-0.396*** (0.030) [0.659]
Controlling for						
Age polynomial	yes	yes	yes	yes	yes	yes
Initial char. diff.	yes	yes	yes	yes	yes	yes
Current char.	yes	yes	yes	yes	yes	yes
Local divorce rate	yes	yes	yes	yes	yes	yes
Year FE	yes	yes	yes	yes	yes	yes
State FE	yes	yes	yes	yes	yes	yes
Ν	41,685	41,685	29,188	29,188	20,518	20,518

#### **Robustness Analysis**

- Algorithm potentially leads to mismeasurement of credit scores at the true start of relationship
  - Measure match quality using credit scores in *t* 8
- Algorithm potentially mis-identifies the formation date for couples with separate addresses for extended periods
  - Add restriction that individuals must live apart 16 quarters prior to t
- Algorithm assigns couple-status to non-couples
  - Look only at couples with joint accounts

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### **Robustness Analysis Results**

	scores 8 Qs before		Living sep.	16 Qs before	Having joint a	Having joint accounts ever		
	3rd & 4th yr	5th & 6th yr	3rd & 4th yr	5th & 6th yr	3rd & 4th yr	5th & 6th yr		
Initial diff	(1) 0.231***	(2) 0.176***	(3) 0.293***	(4) 0.160***	(5) 0.203***	(6) 0.085***		
100	(0.025) [1.163]	(0.032) [1.114]	(0.031) [1.215]	(0.051) [1.105]	(0.039) [1.124]	(0.032) [1.040]		
Initial score 100	-0.400*** (0.022) [0.699]	-0.403*** (0.038) [0.700]	-0.457*** (0.028) [0.661]	-0.477*** (0.043) [0.653]	-0.396*** (0.030) [0.695]	-0.506*** (0.019) [0.651]		
Controlling for Age polynomial Initial char. diff. Current char. Local divorce rate Yearly FE State FE	yes yes yes yes yes yes	yes yes yes yes yes yes	yes yes yes yes yes yes	yes yes yes yes yes yes	yes No yes yes yes yes	yes No yes yes yes yes		
Ν	28,345	19,974	14,516	8,618	652,161	547,453		

### Mechanisms for Credit Scores

- Are poorly matched couples more likely to encounter financial distress?
- Do poorly matched couples borrow less?
  - Could reflect more limited access to credit or less joint consumption
- Do poorly matched couples use debt separately and differently?
  - E.g. joint accounts increase transparency of financial management, reduce monitoring costs, expand borrowing capacity, and often lower borrowing costs.

## Initial Credit Score Differentials and Subsequent Financial Distress

	New bar	nkruptcy	New for	eclosure	More derogatory records		
	1st 2 years	1st 4 years	1st 2 years	1st 4 years	1st 2 years	1st 4 years	
	(1)	(2)	(3)	(4)	(5)	(6)	
Initial diff 100	0.276***	0.092*	0.152**	0.123*	0.224***	0.047	
	(0.049)	(0.052)	(0.071)	(0.073)	(0.026)	(0.035)	
	[1.189]	[1.055]	[1.099]	[1.074]	[1.152]	[1.028]	
Controlling for							
Initial score level bins	yes	yes	yes	yes	yes	yes	
Age polynomial	yes	yes	yes	yes	yes	yes	
Current char.	yes	yes	yes	yes	yes	yes	
Initial char.	yes	yes	yes	yes	yes	yes	
Yearly FE	yes	yes	yes	yes	yes	yes	
State FE	yes	yes	yes	yes	yes	yes	
Ν	30,438	21,498	34,074	23,942	35,220	24,539	

#### Initial Mismatch and Subsequent Use of Credit

	Mortgage			Auto	loans		Credi	t card
	1st 2 years	1st 4 years	-	1st 2 years	1st 4 years		1st 2 years	1st 4 years
	(1)	(2)		(3)	(4)		(5)	(6)
				Borrowing	new debt			
Initial_diff	-0.055	-0.071*		-0.117***	-0.075*			
100	(0.036)	(0.042)		(0.033)	(0.039)			
	[0.966]	[0.960]		[0.930]	[0.958]			
Ν	18,145	11,412		15,875	11,412			
				Opening joint fi	nancial account			
Initial diff	-0.702***	-0.538***		-0.530***	-0.325***		-0.543***	-0.280***
100	(0.047)	(0.045)		(0.042)	(0.041)		(0.073)	(0.068)
	[0.628]	[0.711]		[0.708]	[0.819]		[0.701]	[0.841]
Ν	27,301	17,435		29,798	19,954		29,190	19,026
Controlling for	1/05	1/05	VOC	VOS	VOS	VOC		
Age polynomial	ves	ves	ves	ves	ves	ves		
Current char.	ves	ves	yes	yes	ves	yes		
Initial char.	yes	yes	yes	yes	yes	yes		
Yearly FE	yes	yes	yes	yes	yes	yes		
State FE	yes	yes	yes	yes	yes	yes		

## Are Credit Scores Predictive beyond Credit-Related Channels?

Initial diff 100				0.303*** (0.025) [1.208]
Initial score 100				-0.350*** (0.021) [0.720]
Use of credit indicators				
Opens joint account	-1.492*** (0.067) [0.225]			-1.307*** (0.069) [0.271]
New mortgage		-0.375*** (0.058) [0.687]		-0.038* (0.062) [0.963]
New auto loan		-0.152*** (0.052) [0.859]		0.054 (0.055) [1.056]
Financial distress indicators				
New bankruptcy			0.412*** (0.098) [1.510]	0.020 (0.103) [1.020]
New foreclosure			0.106 (0.137) [1.112]	0.115 (0.139) [1.121]
New Derog. records			0.538*** (0.047) [1.712]	0.161*** (0.052) [1.175]

## Are Credit Scores Predictive beyond Credit-Related Channels?

<u>Initial diff</u> 100				0.303*** (0.025) [1.208]
<u>Initial score</u> 100				-0.350*** (0.021) [0.720]
Use of credit indicators				
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New mortgage		-0.375*** (0.058) [0.687]		-0.038* (0.062) [0.963]
New auto loan		-0.152*** (0.052) [0.859]		0.054 (0.055) [1.056]
Financial distress indicators				
New bankruptcy			0.412*** (0.098) [1.510]	0.020 (0.103) [1.020]
New foreclosure			0.106 (0.137) [1.112]	0.115 (0.139) [1.121]
New Derog. records			0.538*** (0.047) [1.712]	0.161*** (0.052) [1.175]

#### Interpretation and Extensions

- Recall ... credit scores designed to predict future default using past credit use and repayment behavior
- Results show that credit scores levels and match quality can predict other life/economic outcomes besides default
- We conjecture credit scores reflect level of commitment and relationship skills that affect relationship outcomes

default prob = 
$$f(trustworthiness) + \eta$$
, (1)

and

credit score = 
$$g(default prob) + \mu$$
, (2)

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# Ancillary Evidence - Historical Credit Reports (before FCRA)

General reliability and personal character intrinsic to credit reports; suggests link between scores and relationship skills/commitment

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#### Historical Credit Reports (before FCRA)

General reliability is an intrinsic part of credit reports

• Does his record show he has been a steady and a reliable man?

 Is his personal reputation as to character, honesty and fair dealing good? (if not good, state nature of unfavorable reports)

 Is his personal reputation as to habits and morals good? (if not good, state nature of unfavorable reports)

Do you learn of any illegal liquor traffic activities or domestic difficulties?

Survey-Based Evidence Connecting Credit Scores and Relationship Skills/Commitment

- Idea: Relationship skills and level of commitment manifest as trustworthiness
  - To show the statistic link between credit scores and survey based measures of trustworthiness
- The Social Capital Community Survey asked "whether most people can be trusted"
- The Survey samples 375 to 1,500 adults in 41 communities
  - Glaeser et al. (2000) show that answers to such questions reveal one's trustworthiness
  - People who interact with more trustworthy counterparties tend have a higher trusting attitude

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#### **Trustworthiness and Credit Scores**



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### **Additional Evidence**

#### Table: Survey Based Trustworthiness Index and Credit Scores

	Contemp	orary correlations	Long-term influences
	Community	average credit score	Individual credit score
	(1)	(2)	(3)
Trustworthiness Index	1.57***	1.42***	
	(0.25)	(0.21)	
Trustworthiness Index			0.61***
(community lived 3 years ago)			(0.03)
Log(median income)		0.36***	0.42***
		(0.09)	(0.01)
R-squared	0.51	0.65	Ò.008
N	38	38	340,303

### **Additional Evidence**

#### Table: Self-Reported Trustworthiness And Relationship Outcomes

SCCS respondents a	nalysis						
Shares of individuals that have high trust levels	Married	Separated or divorced					
	52.0%	42.3%					
Correlations between							
Shares of the separated and divorced and shares of high trust levels	-0.37***						
CCP couples analysis							
<b>—</b>	(1)	(2)					
Effects on separations within six years							
Trustworthiness index	-0.777*	-0.447					
	(0.381)	(0.423)					
	[0.941]	[0.966]					
Initialscore 100		-0.560*** (0.020) [0.599]					

#### Bonus: Bricker and Li 2015

- Follow Guiso et al (2008) to test whether more trusting people are more likely to invest in stocks
- Premise—investors living in communities with more trustworthy residents are more trusting
- Merge the Survey of Consumer Finances with the census tract credit score averages
- Control for typical individual characteristics
- Also control for neighborhood average stock ownership

## Trust (Inferred from Local Credit Score Averages) Matters

	Market participation Logit			Stock shares Tobit	
	0.587***	0.582***	0.273*	1.551***	0.109***
100	(0.140) [1.275]	(0.140) [1.272]	(0.153) [1.119]	(0.547) [1.900]	(0.030)
SCF trust indicator		0.143** (0.060) [1.153]			
Local stock ownership			1.903*** (0.396) [1.257]		
$\frac{\overline{CS}}{100}$ × Years of education				-0.067* (0.036) [0.972]	
Individual characteristics	Yes	Yes	Yes	Yes	Yes
Tract characteristics	Yes	Yes	Yes	Yes	Yes
Local economy conditions	Yes	Yes	Yes	Yes	Yes
Yearly fixed effects N	Yes 14,122	Yes 14,122	Yes 14,013	Yes 14,122	Yes 14,122

#### Summary of Results

- High degree but imperfect positive assortative mating with respect to credit scores
- Higher credit scores are associated with more stable relationships
- Mismatch in credit scores appear to destabilize relationship through various credit channels
- Initial credit score gaps predict subsequent separations even controlling for these realized events
- Broad consistency between credit scores and survey-based measures of trustworthiness

#### **Future Research**

- Intra-household credit allocation (are they leaving money on the table?)
- Gender and the use of credit (explore the couples with greater age differences)
- More thorough treatment on trustworthiness—what does trustworthiness reflect after all?
  - Stigma
  - Discounting factor
  - Altruism