

Abstract

- We document that culture and cultural perception both influence financial decisions. We examine the impact of clan culture, an important dimension of Chinese culture, on individual lending behavior.
- Using data from RenRenDai, a leading peer-to-peer lending platform in China, we find that borrowers from regions with higher clan culture are more likely to get loans funded, attract larger bids from lenders, get loans funded faster, are less likely to default, and repay a larger fraction of their loans.
- These effects are more pronounced when borrowers are riskier, there is greater information asymmetry, and the legal environment is weaker.
- Clan culture acts as a substitute for formal institutional mechanisms. Cultural considerations improve the efficiency of financial decisions.

Motivation

Importance of Culture in Finance

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• A cultural revolution is taking place in finance (Zingales, JFE, 2015). e.g., Corporate culture of trust is positively associated with profits (Guiso, et al., JFE, 2015); Corruption culture overseas influences American residents to cheat on taxes (Debacker et al., JFE, 2015).

Why Clan Culture?

- The social structures of imperial China, exemplified by clans, impacted development of Chinese society (Greif and Tabellini, AER, 2010; Benjamin, QJE, 2019).
- Clan culture has broad social functions and economic functions even in the modern China (Zhang, Journal of Comparative Economics, 2017, 2020; Chen et al., Economic Journal, 2022).
- Most previous studies look at aggregate outcomes or institutional actions. However, culture is more likely to impact individual actions. Peer-to-peer lending allows us to examine this.

Research Questions

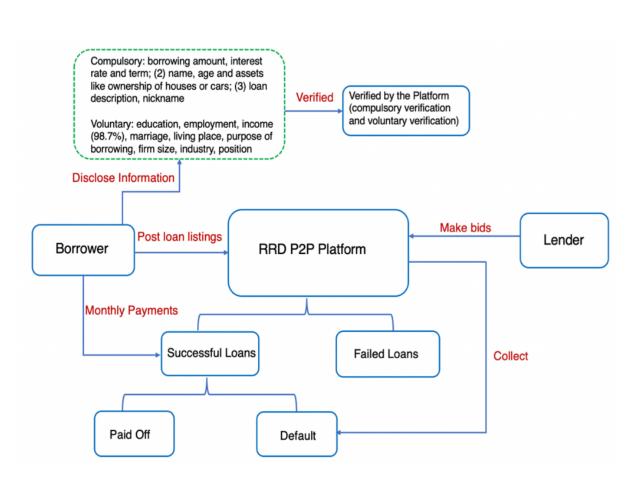
- Does clan culture influence borrower and lender behavior in peer-to-peer lending? What is the impact of clan culture on borrower and lender outcomes in peer-to-peer lending?
- Why does clan culture influence borrower and lender outcomes in peer-to-peer lending?

Background

Clan Culture

- Clans are kin-based groups with common ancestors that gathered to form s organizations.
- Genealogy compilation is a crucial aspect of the Chinese clan system.
- Clan Culture effectively facilitated resource pooling for business ventures a sharing for daily life, and sustained the Chinese economy for numerous ger

RenRenDai



- One of the largest P2P platform in China.
- Borrowers apply for loans by disclosing personal information and choosing interest rate they are willing to pay.
- RRD issues its own credit ratings.
- Investors bid. A loan receives no funding unless funded 100%.

Impact of Culture in Peer to Peer Lending

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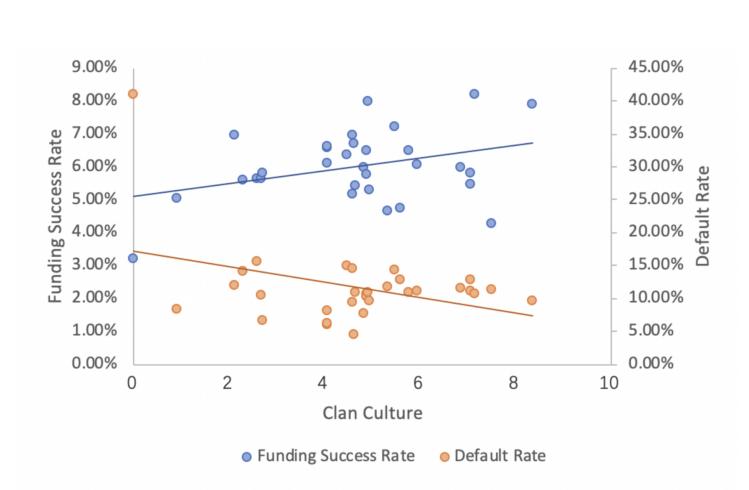
Data

- All 341,348 loan listings posted on RRD between 2012 and 2015, 21,371 successfully funded, rest were not; 2,413 loans defaulted, rest were repaid.
- Genealogy data from The General Catalog of Chinese Genealogy. GDP from China Statistical Yearbooks.
- Lawyers data from the Ministry of Justice, provincial departments of justice, the official website of the Lawyers Association, the Lawyers' Yearbook and the provincial and municipal statistical yearbooks.
- Bank data from China Banking and Insurance Regulatory Commission

Dependent & Independent Variables

- Clan: the number of genealogies compiled in a province and normalized by the population in that province (in log).
- Success: 1 if the loan listing has fully funded, and 0 otherwise.
- Default: 1 if the funded loan has defaulted, and 0 otherwise.
- Funding Time: the time it takes for a given loan to be fully subscribed, then divided by the loan amount
- Average Bid Amount (Ln): the average amount bided by investors for a loan listing (quantified by Ln).
- **Repayment Ratio:** ratio of repayment amount to the loan amount.

Clan Culture, Funding Success, and Default Rate



Borrowers with Higher Clan Culture Are More Successful

		(1)	(2)	(3)	(4)	(5)	(6) Log	(7) Log
n social		Success	Success	Success Hazard Rate	Funding Time	Funding Time	Average Bid Amount	Average Bid Amount
								, anount
	Clan Culture	0.043***	0.031***	0.019***	-0.010***	-0.008**	0.031***	0.024***
		(7.55)	(5.40)	(3.85)	(-3.21)	(-2.37)	(10.60)	(7.20)
and risk		[0.002***]	[0.001***]					
nerations.	Loan APR	-0.178***	-0.178***	-0.131***	-0.038***	-0.038***	0.048***	0.048***
		(-38.70)	(-38.64)	(-33.70)	(-12.61)	(-12.60)	(18.85)	(18.83)
	Female	0.050**	0.049**	0.040**	0.005	0.005	0.072***	0.073***
		(2.12)	(2.04)	(2.04)	(0.40)	(0.38)	(5.63)	(5.69)
	Age	0.018***	0.017***	0.016***	0.001	0.001	0.011***	0.011***
		(13.35)	(13.04)	(14.34)	(0.82)	(0.81)	(14.16)	(14.19)
	Credit Rating	1.133***	1.134***	0.583***	-0.019***	-0.019***	0.114***	0.114***
		(87.50)	(87.41)	(102.80)	(-5.22)	(-5.19)	(33.66)	(33.71)
	Loan Term	-0.030***	-0.030***	-0.024***	0.004***	0.004***	0.013***	0.013***
		(-27.28)	(-27.47)	(-25.97)	(6.74)	(6.73)	(21.68)	(21.56)
	Education	0.259***	0.259***	0.186***	-0.015**	-0.015**	0.005	0.005
		(25.12)	(24.89)	(21.21)	(-2.46)	(-2.51)	(0.91)	(0.96)
	Income Level	0.131***	0.129***	0.127***	0.001	0.001	0.129***	0.128***
		(18.08)	(17.54)	(22.03)	(0.28)	(0.25)	(34.67)	(34.13)
	Work Experience	0.245***	0.245***	0.215***	-0.004	-0.004	-0.051***	-0.049***
		(27.51)	(27.35)	(29.21)	(-0.75)	(-0.81)	(-10.56)	(-10.18)
	GDP Per Capita		0.004	0.006		-0.006*		0.025***
			(0.59)	(1.20)		(-1.65)		(7.06)
	Lawyers Per Capita		-0.020***	-0.017***		0.004		-0.013***
			(-3.38)	(-3.58)		(1.16)		(-4.03)
	Banks Per Capita		0.431***	0.328***		0.028		-0.077***
			(12.42)	(11.36)		(1.42)		(-4.13)
	Year,Month and Purpose Fixed Effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes
g the	Observations	334,992	334,992	334,976	21,068	21,068	22,895	22,895
	Adjusted R ²				5.7e-02	5.7e-02	.36	.36
	Pseudo R ²	0.26	0.26					
	F Statistic				20.22	16.69	484.4	397.9

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	(1) Default	(2) Default	(3) Repayment Ratio	(4) Repayment Ratio
an Culture	-0.064***	-0.038***	0.003**	0.033***
	(-4.01)	(-4.16)	(2.21)	(3.34)
	5 3	[-0.003***]		
an APR	0.149***	0.083***	-0.007***	-0.086***
	(10.93)	(10.72)	(-6.47)	(-10.23)
male	-0.180**	-0.106***	0.015***	0.135***
	(-2.43)	(-2.63)	(3.16)	(3.11
e	0.036***	0.020***	-0.002***	-0.021***
	(8.69)	(8.76)	(-7.67)	(-8.57)
edit Rating	-1.654***	-0.746***	0.050***	0.875***
	(-18.27)	(-19.15)	(38.14)	(26.67)
an Term	0.033***	0.018***	-0.003***	-0.019***
	(11.45)	(11.21)	(-14.83)	(-10.56
ucation	-0.410***	-0.220***	0.026***	0.240***
	(-12.67)	(-12.31)	(12.21)	(12.74)
come Level	0.255***	0.144***	-0.014***	-0.138***
	(12.14)	(12.36)	(-9.60)	(-11.14)
ork Experience	-0.063**	-0.032**	0.006***	0.037**
	(-2.34)	(-2.17)	(3.45)	(2.34)
DP Per Capita	-0.026	-0.015	0.003**	0.021
	(-1.34)	(-1.43)	(2.41)	(1.82)
wyers Per Capita	-0.039**	-0.025***	0.002	0.023**
	(-2.46)	(-2.74)	(1.54)	(2.14
nks Per Capita	1.388***	0.795***	-0.109***	-0.799***
	(15.42)	(15.39)	(-15.31)	(-13.80
ar,Month and Purpose Fixed Effects	Yes	Yes	Yes	Yes
timation	Logit	Probit	Ols	Tobi
oservations	21,084	21,084	21,054	21,054
justed R ² and Pseudo R ²	0.25	0.25	0.13	0.21
Statistic			163.7	

Robustness

- Impact of Immigration: we test if our results are sensitive to migration by distinguishing between the birth province and the current province of each borrower.
- Alternative Measure of Clan: we construct it by applying principal-component analysis for genealogies and ancestral halls.
- City-Level Evidence: we reexamine the relation between clan culture and borrowing/lending behavior using clan culture measured at the city level.
- Selection Bias: Heckman two stage model and we use peer effect as instrument variable.

Other Findings: Lenders Rationally Use Clan Culture as Creditworthiness

- Lenders learn from default experiences, as the impact of clan culture is more significant among borrowers who have never defaulted than among repeat borrowers with previous defaults.
- Lender reaction to borrower's clan culture is rational, not an overreaction, or an underreaction to the borrower's clan culture.

Conclusion

- Borrowers from regions with higher clan culture are more likely to get their loans funded, get loans funded faster and, receive larger bids from lenders, less likely to default, and have higher repayment ratios
- This effect is more pronounced where the borrowers are of low quality, there exists greater information asymmetry, and the legal environment is weaker.
- Clan culture influences borrowers' and lenders' performance through market trust, social networks, and moral norms
- Lenders react rationally to culture as a signal of creditworthiness, neither underreacting, nor overreacting.

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Borrowers with Higher Clan Culture Default Less