



Going for Broke:

Bank Reputation and the Performance of Opaque Securities

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Motivation (1)

- Can **bank reputation** support the issuance of opaque securities, and under what conditions?
 - **Issuance**: banks sell securities to **investors**
 - **Opaque**: hard for investors to **verify quality**, e.g. mortgage-backed securities (MBS)
 - Conflict of interest → **bankers may sell bad assets, market as good**
- **Reputation**
 - **Disciplining mechanism**: reputational damage → loss of future profits
 - Retention (Leland and Pyle 1977) unverifiable, hard to commit
 - Regulation costly, impeding innovation
- **Empirical evidence** → limited effectiveness
 - 2000s: poor quality MBS placed regardless of bank reputation (Griffin et al. 2014; Piskorksi et al. 2015)
 - 1990s: Internet firms without track record (failing later) overpriced by Goldman Sachs, Morgan Stanley, etc. (SEC 2005)
 - 1920s: No disclosure requirements – Banks of “enormous prestige and reputation” placed bad securities (Pecora 1939).

Motivation (2)

- Bank reputation: **ambiguous theoretical predictions**
 - Build reputation to burn (Kreps & Wilson 1982, Milgrom & Roberts 1982, Chari et al. (2014), Hartman-Glaser 2017)
 - High reputation → lower security quality, if misconduct only discovered in bad states (Griffin et al. 2014)
 - High reputation → higher credit rating inflation, if no large “outside” business at stake (Mathis et al. 2009)
- Bank managers’ **exposure to reputational losses**
 - Limited liability, bailout expectations, limited career consequences of misconduct (Hett & Schmidt 2017; Griffin et al. 2019)
 - High powered incentives: bonuses, equity-based compensation (Bolton et al. 2015)

This paper

- We study the first MBS-driven credit boom and bust
 - Securitization of Surinam plantation mortgages by Dutch merchant-banks
 - Issuance peaked in years 1769-1770
- Unique parsimonious setting → focus on the role of reputation
 - Government enforces contracts, no further regulation, involvement or (expected) bailouts
 - Retention limited (warehousing)
- Bank reputation
 - **Variation in reputation** (first high-reputation, lower reputation enter over time)
 - **Personal exposure to reputational losses**: unlimited liability partnerships (ownership $\approx$ control)
 - **Variation in exposure**: bankers' shielded wealth (pre-nubs); share in short-term profits (after partner death)
- Question
 - Did merchant-bank reputation improve MBS quality and performance?

Surinam in the 18th century

- Plantation economy based on exploitation of enslaved people
 - Sugar and coffee plantations (150/120 enslaved)
- Governed by Dutch colonial government
 - Positions filled by planter elite (wealthy, well-established)
 - Dutch legal system → secure property rights
 - Plantations collateral for creditors (including enslaved people)
- Merchant-banks (Amsterdam) are key intermediaries
 - Arrange imports, exports, short-term funding (bills of exchange)
 - Provide long-term funding through MBS (*negotiaties*)
 - Represented by local agent (3-month voyage)

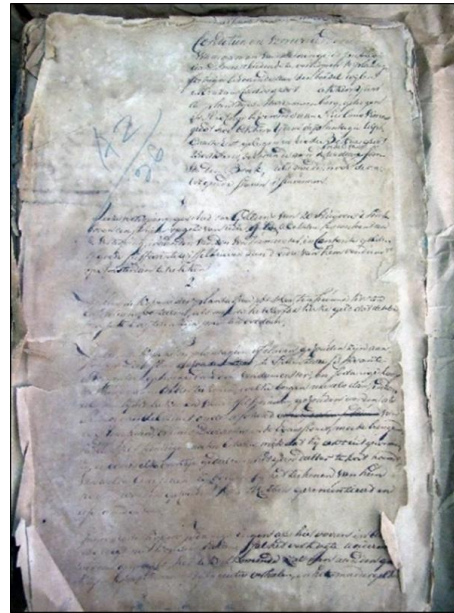
Plantation MBS

- MBS: standardized and risky
 - Mortgage sum up to $5/8^{\text{th}}$ of appraised value (industry standard)
 - Mortgage interest rate 6%
 - MBS spread ≈ 350 bps (full interest passed on)
- MBS credit risk with investors
 - Sophisticated investors (highest wealth classes, rentiers, businesspeople)



Sources: entire securitization chain

- Plantations
 - Mortgage contracts
 - Appraisal reports
 - Sale transactions
- MBS
 - *Negotiatie* contracts
 - Auction prices in Amsterdam
- Bankers
 - Notary deeds, bank records, directories, census, genealogical information
- Investor portfolio holdings
 - Estate tax records
- Sources:
 - Notarial Archives of Amsterdam and of Surinam
 - Mercurius and auction record
 - Amsterdam Bank of Exchange (ABE)
 - Other: Van de Voort, Elias, Kohier Personele Quotisatie 1742, ...



L. / 21927. 17.	
149. Oranje - J. Delors	750.
15. Fontaine	700.
16. Pance	600.
Nyra	
1. Viltten	950.
2. Sclona	725.
3. Sina	1000.
4. Lora	850.
5. Sclona	650.
6. Lora	600.
7. Sclona	625.
8. Sclona	1000.
9. Sclona	500.
10. Sclona	550.
11. Lora	600.
12. Sclona	550.
13. Sclona	575.
14. Sclona	750.
15. Sclona	500.
16. Sclona	600.
17. Sclona	550.
18. Sclona	550.

Merchant-bank reputation (1)

- Reputation:
 - Business value at risk from misconduct
- How to capture?
 - Size of “outside” business (Mathis et al. 2009)
 - Size of security business ambiguous: larger → more long-term profits at risk + more short-term profits gained from misrepresentation
 - Size of security business endogenous: may reflect opportunistic behavior
- Our measure:
 - Value and prestige of bank office
 - Reflects how established bank is, primarily in other business (MBS market = new)
 - Easily observable to investors
 - Correlates with other reputation measures

Merchant-bank reputation (2)

Jan & Theodore van Marselis

- Elite (Amsterdam city government)
- Large outside business (sovereign bonds Denmark, trade with France, Italy, Eastern Mediterranean)

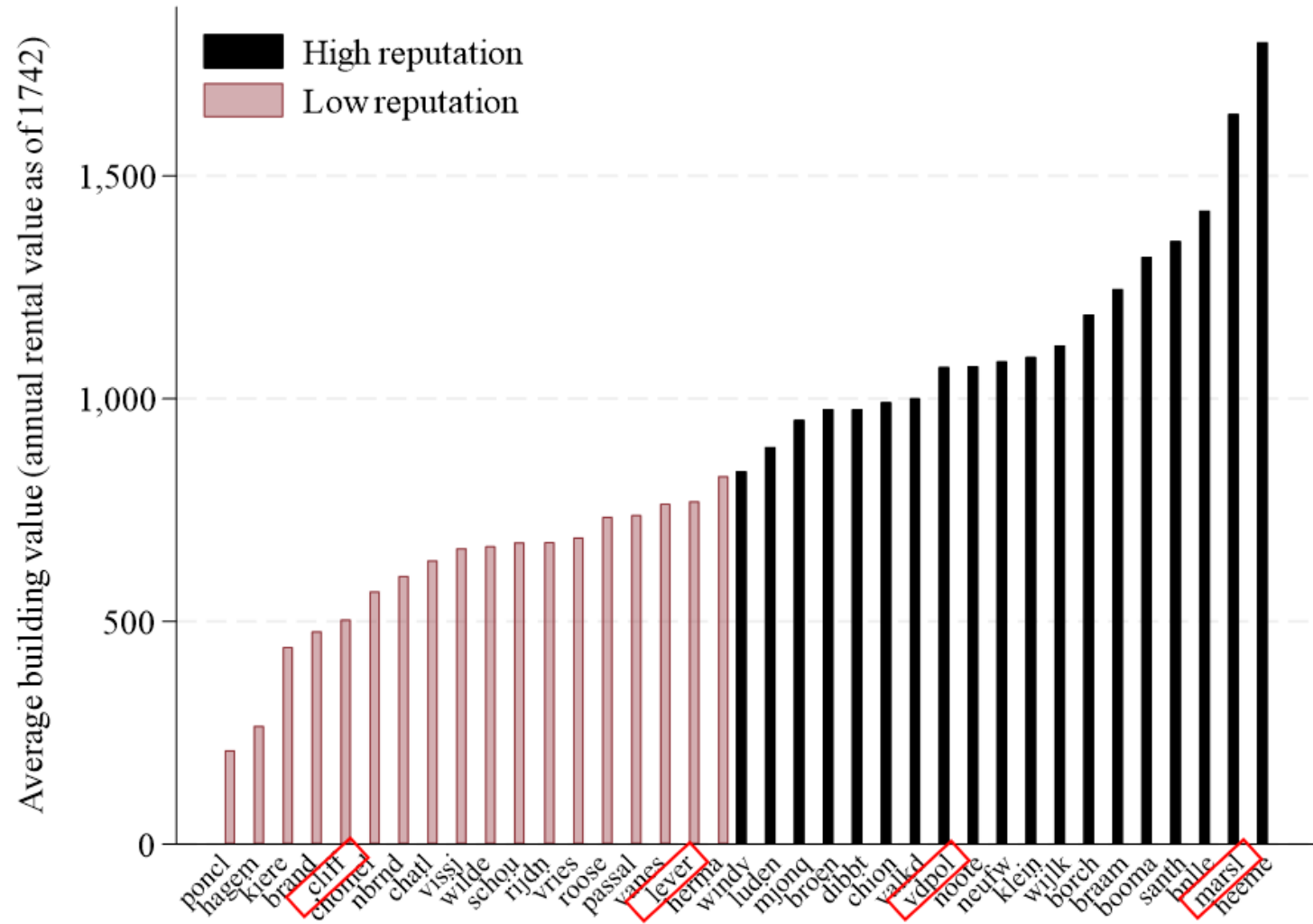


Lever & De Bruyne

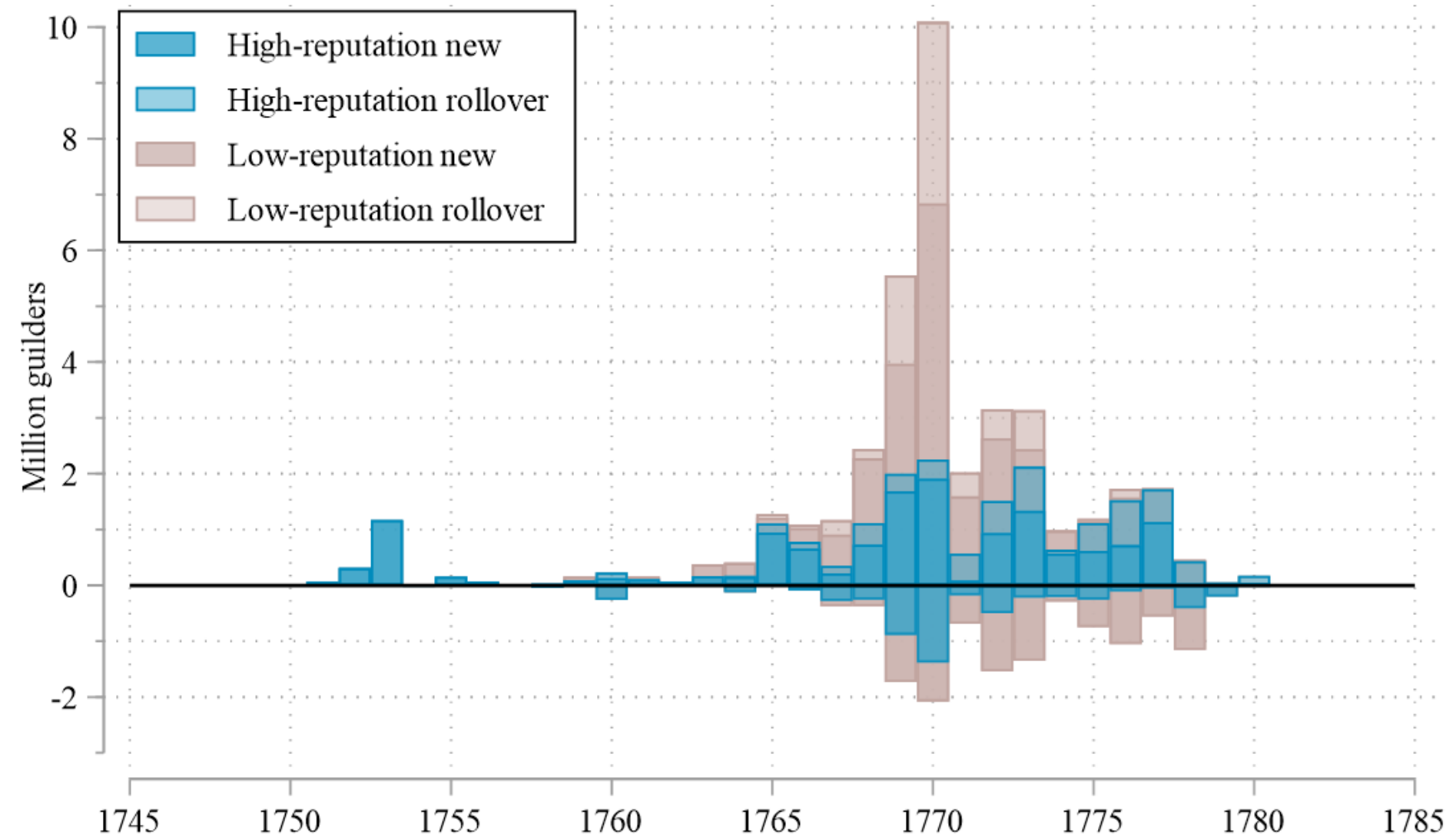
- Non-elite
- plantation MBS focus



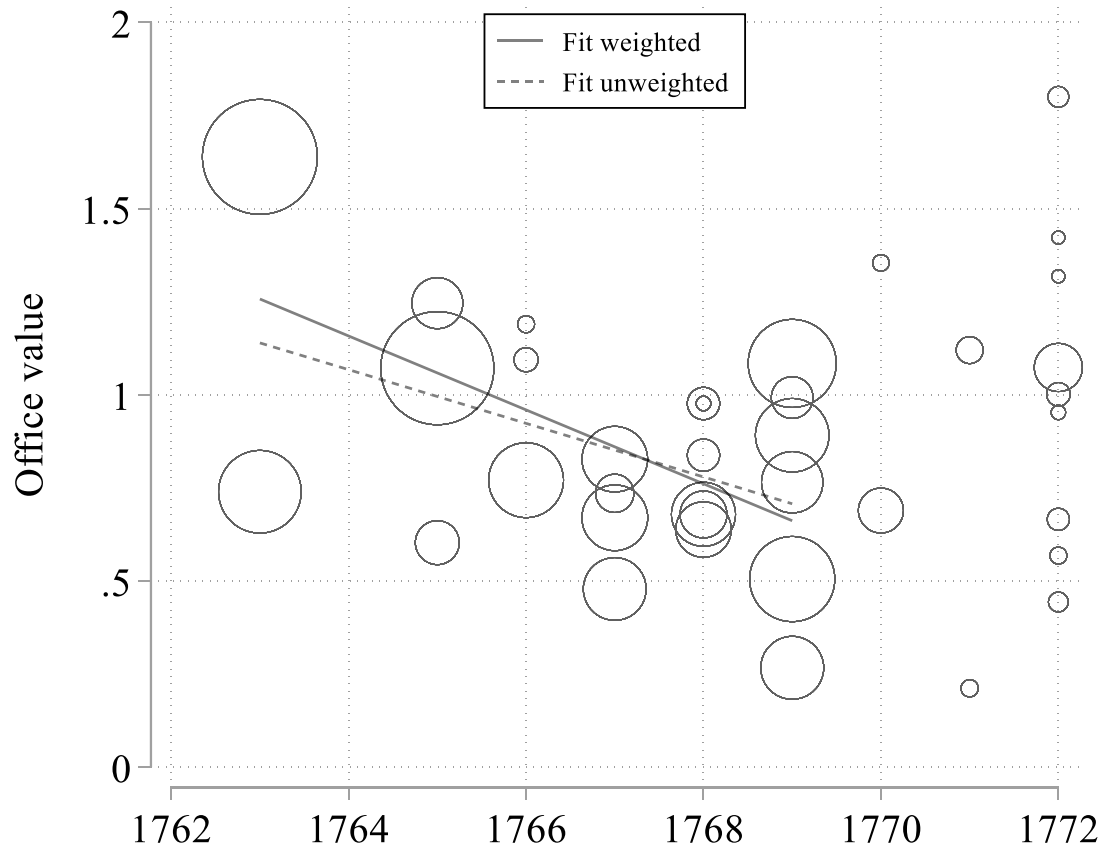
Merchant-bank reputation (3)



Plantation mortgage volume

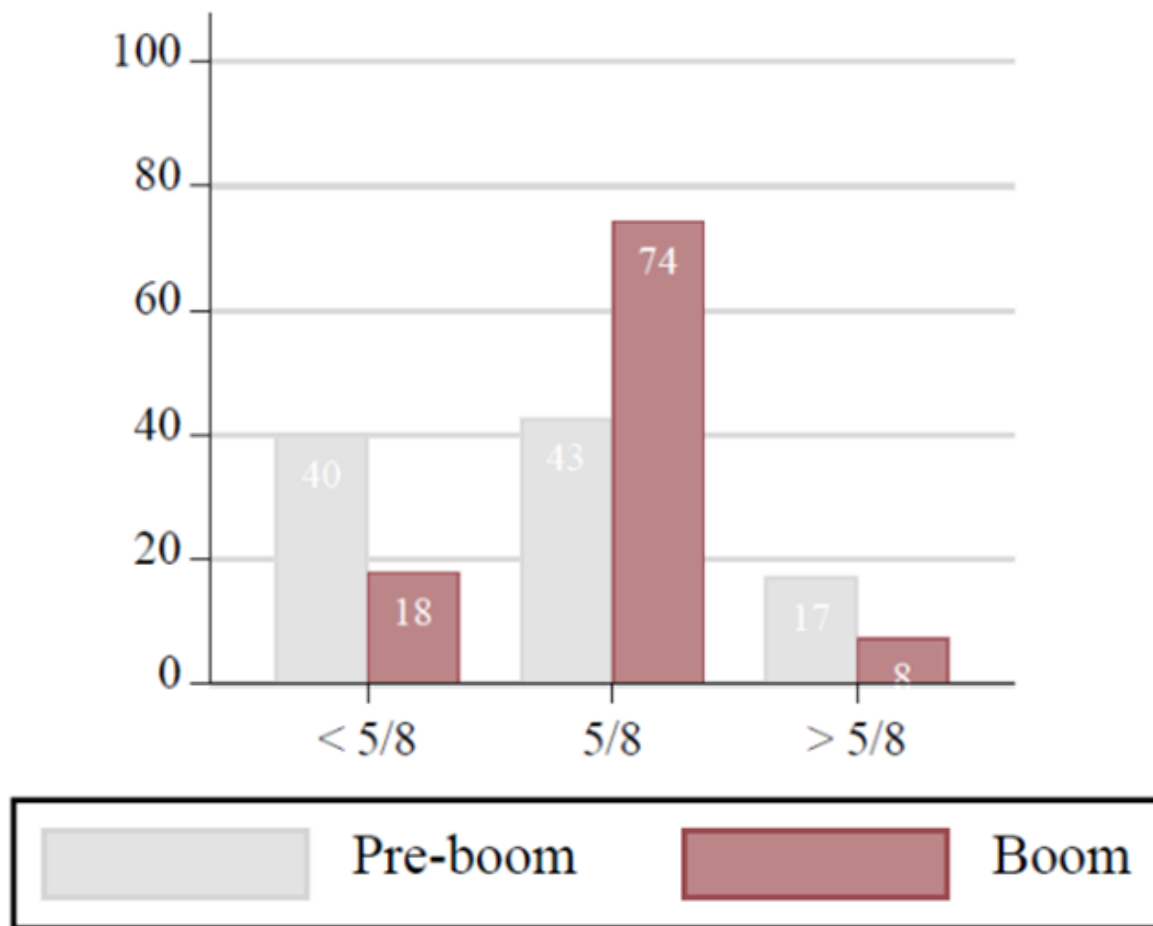


Extensive margin: MBS market entry

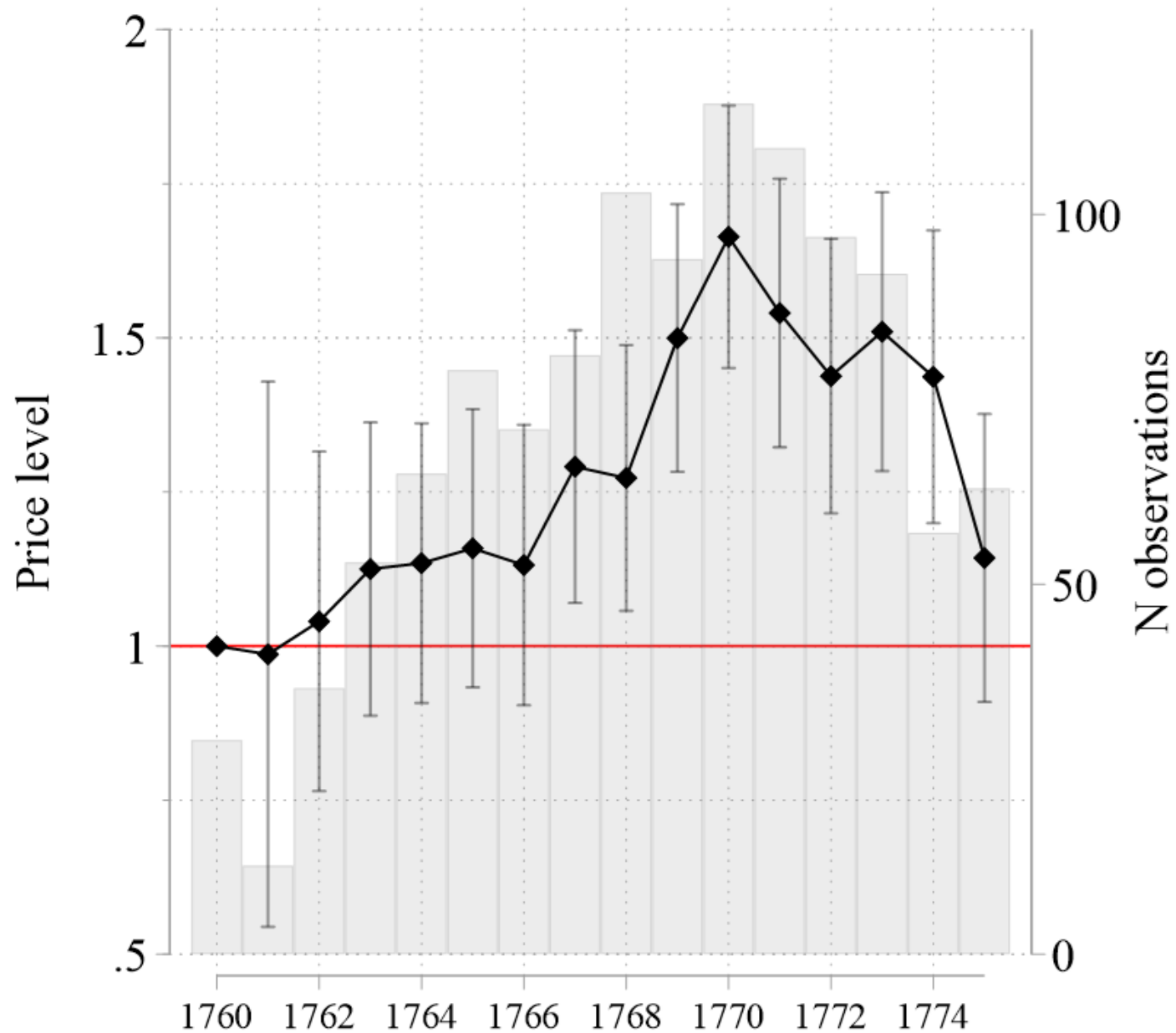


- Explanation: initially only high-reputation banks (substantial outside activities)
- Market more established over time → expected future profits increase
- Low-reputation banks can join (disciplined by future MBS profits)

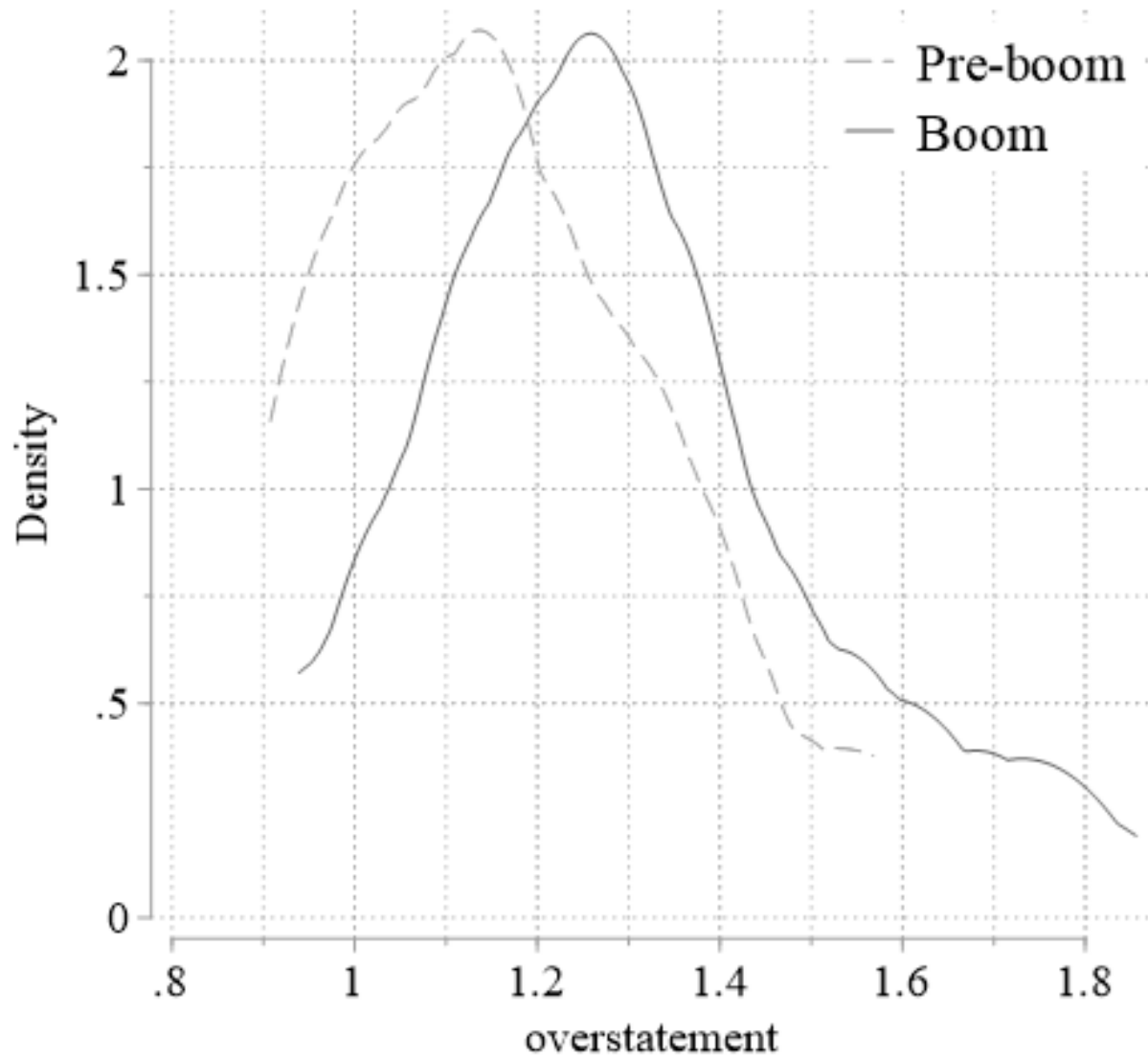
Clustering LTVs at 5/8 during boom (1769-1770)



Plantation valuation



Appraisal overstatements



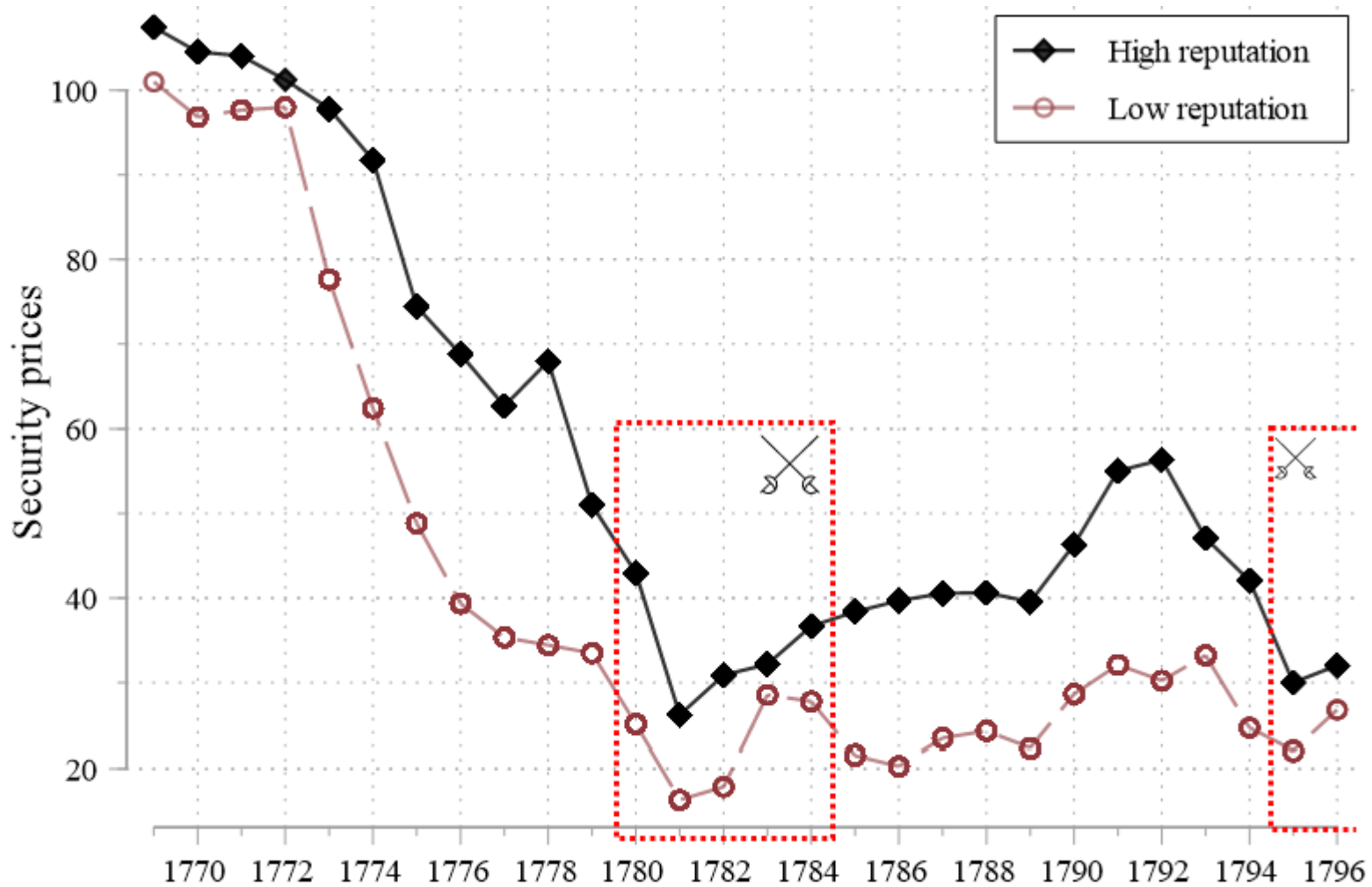
Underlying mortgage quality

- Measure of planter's leverage: **LTF**: loan-to-fundamentals
 - Fundamentals: plantation components valued at 1756-1760 prices
 - → LTV adjusted for price changes in plantation components over time
- Measure of planter quality: **Non-elite borrower**
 - Borrower not part of colonial administration

	High-reputation		Low-reputation		
	N	Mean	N	Mean	Mean difference
<i><u>Pre-boom</u></i>					
LTF	40	0.90	49	0.95	-0.05 (-0.69)
Non-elite borrower	77	0.51	64	0.63	-0.12 (-1.48)
Non-elite agent	66	0.30	49	0.40	-0.11 (-1.19)
<i><u>Boom</u></i>					
LTF	15	1.19	100	1.45	-0.26* (-1.88)
Non-elite borrower	29	0.26	113	0.61	-0.35** (-3.58)
Non-elite agent	26	0.33	112	0.54	-0.22** (-2.08)

- Explanation: banks observe impending market collapse before investors
- Low-reputation bankers (limited outside business) now little to lose

Bust: MBS prices



MBS prices & mediation analysis

	(1) Price	(2) Price	(3) Price	(4) Price	(5) Price
High-reputation (Off. val. $\geq$ median)	17.46*** (3.42)	11.87*** (5.02)	10.27*** (3.66)	7.26** (2.40)	4.73 (1.22)
Nonelite Agent			-6.38 (-1.54)	-7.12* (-1.86)	-7.06* (-1.78)
Nonelite Borrower				-8.25 (-1.57)	-9.97* (-1.93)
LTF					-6.93 (-1.13)
Joint ACME		5.59	7.19	10.20	12.74
[p-value]		[0.19]	[0.13]	[0.10]	[0.06]
ACME		5.59 [0.19]	1.60 [0.24]	3.01 [0.20]	2.53 [0.17]
Auction Year	Yes	Yes	Yes	Yes	Yes
Origination Year	No	Yes	Yes	Yes	Yes
Weights	MBS	MBS	MBS	MBS	MBS
N clusters	46	46	46	46	46
N	4605	4605	4605	4605	4605
R ²	0.72	0.78	0.78	0.79	0.79

Heterogeneous exposure to reputational losses (1)

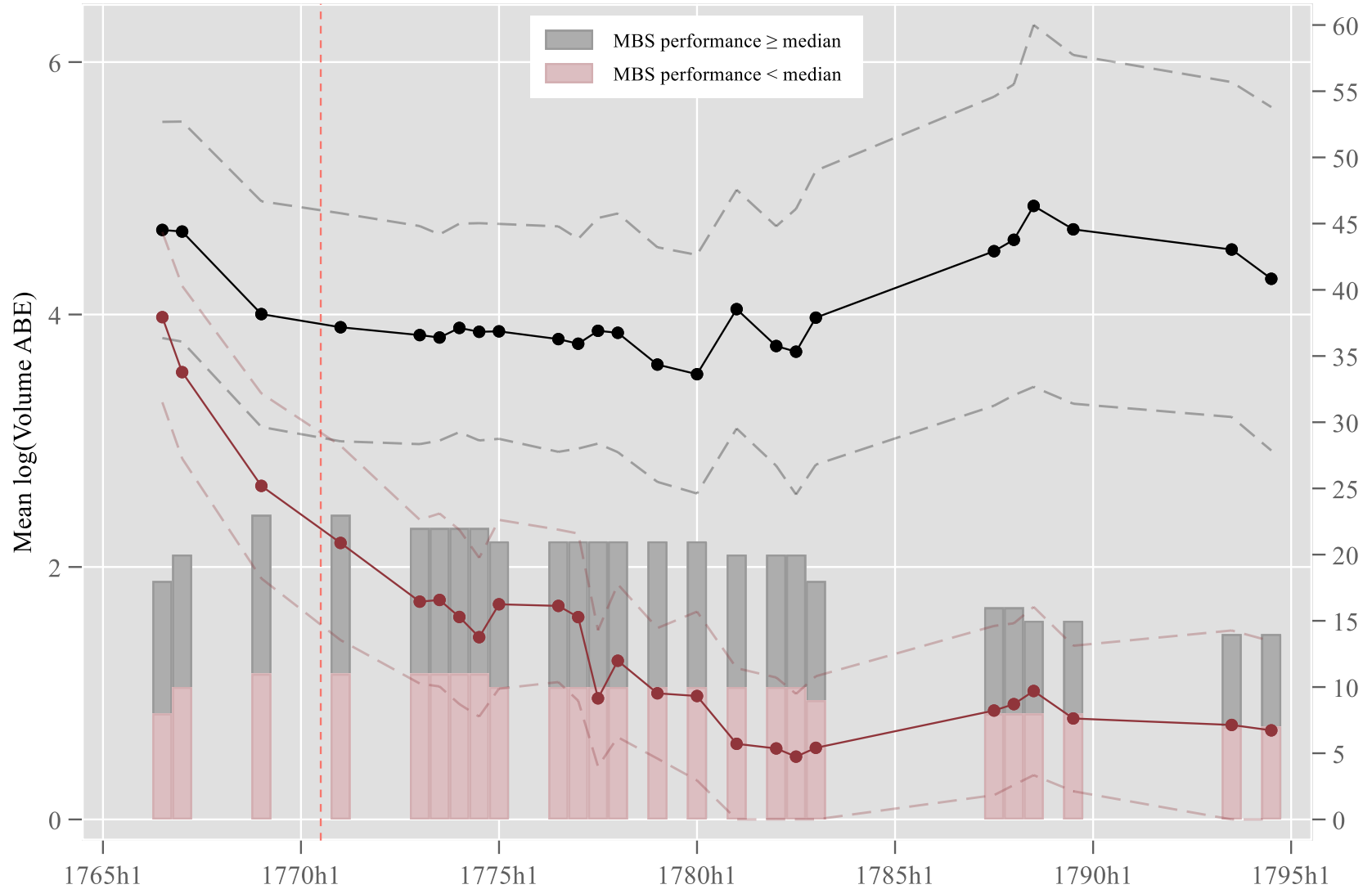
- Large share in short-term profits after death business partner
 - Death of a partner → heirs have claims on future profits
 - Example Van de Poll & Co.
 - Managed by only one partner after the death of brother
 - Agreement nephew becomes partner when coming of age and share in partnership's profits
 - Managing partner gets profits in the short-run; has to share them in the future.
- Shielded personal assets: married into wealth
 - Pre-nups shield wealth from unlimited liability
 - Negative effects from reputational losses mitigated by wife's (independent) wealth → lower (effective) risk aversion

Heterogeneous exposure to reputational losses (2)

	High-reputation		Low-reputation			
	N	Mean	N	Mean	Diff.	t-stat
Short-term profits	16	0.25	30	0.23	0.02	0.12
Married wealth	16	0.55	30	0.48	0.07	0.57

	(1)	(2)	(3)	(4)	(5)
	Price	Price	Price	Price	Price
Office value	28.99*** (6.49)	28.42*** (6.17)	30.92*** (6.33)	27.20*** (6.75)	40.00*** (4.75)
Heterogeneity variable		-8.12** (-2.17)	-9.38*** (-3.04)	-7.98* (-2.06)	-8.99** (-2.38)
Heterogeneity variable*Office value			-28.19* (-1.90)		-24.91* (-2.01)
Variable		Short-term profits	Short-term profits	Married wealth	Married wealth
Year	Yes	Yes	Yes	Yes	Yes
Weights	Bank	Bank	Bank	Bank	Bank
N clusters	23	23	23	23	23
N	4605	4605	4605	4605	4605
R ²	0.74	0.76	0.76	0.76	0.76

Reputational damage



Alternative explanations – Skill

	High-reputation		Low-reputation		
	N	Mean	N	Mean	Mean dif.
Firm age	19	14.0	18	7.8	6.17 (0.67)
Partner age	19	45.9	18	37.9	8.01 (0.95)
N Surinam deeds	19	8.5	18	8.1	0.47 (0.00)
Surinam background (1/0)	19	0.37	18	0.17	0.20 (1.38)

	(1) Price	(2) Price	(3) Price	(4) Price	(5) Price	(6) Price	(7) Price	(8) Price	(9) Price
High-reputation	15.07*** (3.59)		14.36*** (3.35)		12.32*** (3.37)		14.75*** (3.61)		14.44*** (3.57)
Skill		3.04* (1.84)	0.79 (0.55)	7.59*** (3.21)	5.59*** (3.45)	3.51* (1.99)	3.19* (2.06)	8.84 (1.55)	7.19 (1.67)
Skill variable		Log(Firm age)		Log(Partner Age)		Log(N Surinam deeds)		Surinam background (1/0)	
N	4605	4605	4605	4605	4605	4605	4605	4605	4605
R ²	0.73	0.68	0.73	0.71	0.75	0.68	0.74	0.68	0.73

Conclusions

- Bank reputation improves quality and performance of opaque securities, but only if bankers have:
 - Low discount rate (no outsized share in short-term profits after death partner)
 - Significant personal exposure (not married into wealth)
- As market establishes over time, low-reputation bankers enter (exposing investors to losses)
 - Behavioral explanation? → market dominated by sophisticated investors
 - Rational explanation? → banks observe impending market collapse before investors do; low-reputation banks have little to lose and start misbehaving (earlier, they cared about continuing in MBS market)
- Implications for the theory:
 - No evidence for ambiguous effects of reputation *per se*
 - High reputation bankers keep behaving, even at the height of the boom