

When Banks Fail: Depositor Attention and the Cost of Funding for Survivors

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Community Banking Research Conference Where Research and Policy Meet 2025















This paper:

- Motivation:
 - Bank failures are costly and significant
 - Depositors play a central role in banking yet difficult subject to study
- Research question:
 - How do bank failures affect deposits in neighboring banks?
- Findings:
 - Deposit rates of competitor banks rise significantly
 - Lending growth falls, but lending by nonbanks unaffected
 - Similar effect for banks with higher leverage, and for uninsured deposits
 - Stronger effect for bank failures receiving higher public attention









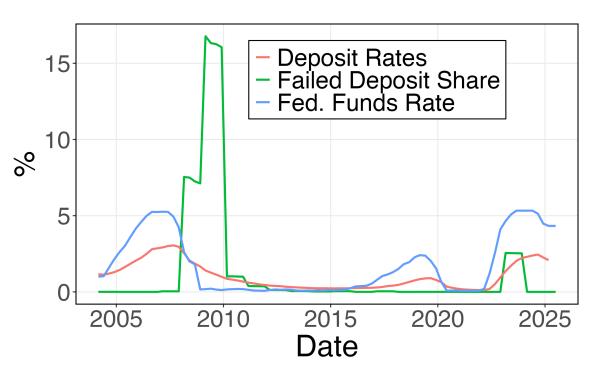
Setting the Scene











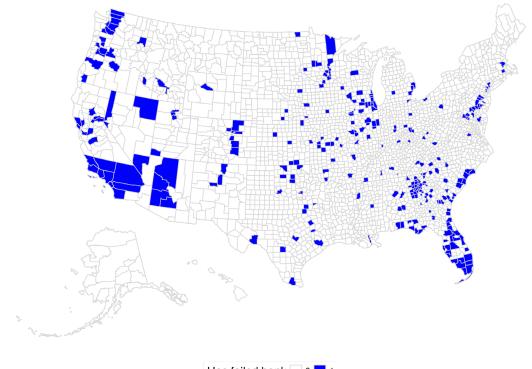
- Deposit rates are slow to fall after interest rates go to zero during GFC
- Contemporaneous prevalence of bank failures











- Bank failures occur broadly across regions
- Visible enough but not pervasive

Has failed bank 🗌 0 📘 1









- Bank failures generate public attention
- Media, FDIC outreach









Findings









Empirical specification

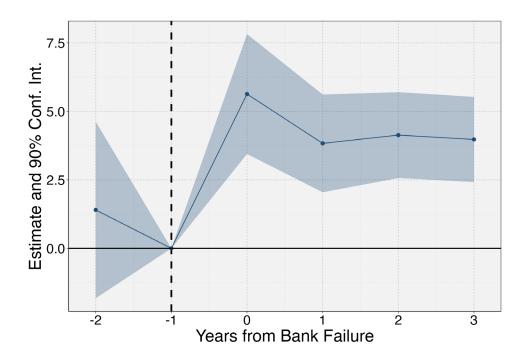
- Estimate the effect of bank failure on same-county neighbor bank's deposit rates
- Control for county-level economic variables (unemployment rate, house price change) as well as control for bank-level deposit rate
- Plain English: If bank X has branches in counties A, B, and C, and a bank fails in county C, does bank X's branch in C change deposit rates, after accounting for bank X's branches in A & B?
- Data: FDIC, CRA, HMDA, Call reports, BLS, branch-level deposit rates by product type











- 100K CD rates in neighboring banks rise by around 4 b.p.
- Effect is immediate and persists up to 3 years









- Is the effect robust?
 - Effect robust to alternative measures and various specifications

- Beyond the deposit rate effect
 - Deposit volume growth declines by 4.5%
 - Small business lending declines by 2%









- Is the lending effect driven by local demand for loans?
 - Mortgage lending in the local economy declines only for bank lenders (borrowers switch to nonbank lenders)
- Is the main effect driven by neighbor banks who are in distress?
 - Main effect is driven by well-capitalized banks
 - No evidence of bank failure contagion in our sample
- Is the main effect due to panic-induced bank runs?
 - Same effect for insured (100k CD) vs. uninsured (500k CD) deposits
- Is the main effect stronger for certain bank failures?
 - Main effect is stronger for highly-publicized bank failures









Summary

- Bank failures generate significantly costly spillovers
- Higher deposit rates for neighboring competitor banks
- Which leads to lower lending (small business lending, mortgages)
- Not driven by risk compensation
- Stronger effect for bank failures generating more public attention









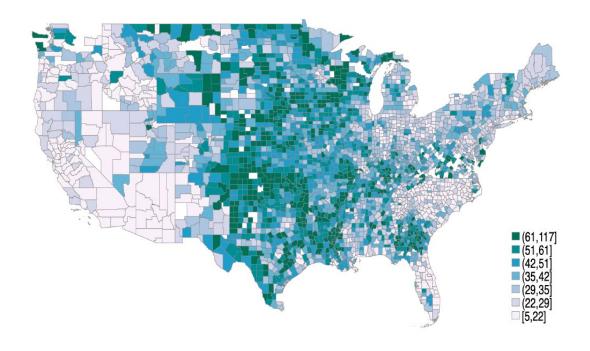
Appendix



















A. Failed banks

	N	Mean	SD	P25	P50	P75
Cost (million \$)	486	133	618	18	42	95
Assets (million \$)	486	1351	14077	102	211	498
Deposits (million \$)	486	980	8672	94	195	446

B. All bank branches

	N	Mean	SD	P25	P50	P75
CD 100K (%)	51136	0.37	0.26	0.17	0.33	0.51
CD 500K (%)	51136	0.37	0.27	0.19	0.33	0.51
Deposits (million \$)	51136	98.59	1821.01	21.28	40.42	73.34









$$R_{ibcdt} = \beta \text{ Bank Failed}_{ct} + \gamma X_{ct} + \alpha_{bt} + \alpha_{c} + \varepsilon_{ibcdt}$$

- Deposit rate R of product type d, at bank b's branch i in county c year t
- Bank Failed = 1 if failed bank's HQ in county c in year t
- \rightarrow X_{ct} : time-varying county-level controls
- $ightharpoonup \alpha_{bt}$: bank-year fixed effects









	r_{100K}	
	(1)	(2)
Bank Failed	4.46***	4.11***
	(1.03)	(0.95)
Unemployment rate		0.72***
		(0.23)
House Price Change		-0.63
		(1.36)
County FE	Yes	Yes
Bank-Year FE	Yes	Yes
Num. obs.	338055	317345
\mathbb{R}^2	0.98	0.98









	$\frac{r_{100K}}{(2)}$	$\frac{r_{500K}}{(4)}$
Bank Failed	4.11***	1.41*
	(0.95)	(0.72)
Unemployment rate	0.72***	0.76***
	(0.23)	(0.23)
House Price Change	-0.63	-3.69*
	(1.36)	(2.01)
County FE	Yes	Yes
Bank-Year FE	Yes	Yes
Num. obs.	317345	319000
\mathbb{R}^2	0.98	0.99









	Δ Deposits
Bank Failed	-4.52**
	(2.29)
Unemployment rate	-0.77***
	(0.18)
House Price Change	7.90***
	(2.92)
County FE	Yes
Bank-Time FE	Yes
Num. obs.	271498
\mathbb{R}^2	0.19

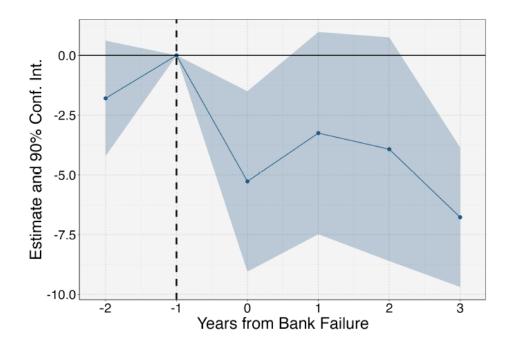






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	Log Count	Log Count	Log Volume	Log Volume
Bank Failed	0.01	0.23***	0.01	0.22**
	(0.04)	(0.09)	(0.05)	(0.10)
Bank Failed × Bank Lender		-0.53***		-0.53***
		(0.12)		(0.12)
Unemployment Rate	-0.01**	-0.01**	-0.03***	-0.03***
	(0.01)	(0.01)	(0.01)	(0.01)
House Price Growth	0.15	0.16	0.23	0.24
	(0.13)	(0.14)	(0.15)	(0.15)
County FE	Yes	Yes	Yes	Yes
Lender-Year FE	Yes	Yes	Yes	Yes
Num. obs.	829075	829075	829037	829037
\mathbb{R}^2	0.40	0.40	0.45	0.45









	r_{100K}	r_{500K}
Bank Failed	1.55	-1.17
	(1.13)	(0.91)
Bank Failed × High Capital	5.96**	6.37**
0 2	(2.82)	(2.80)
Unemployment rate	0.73***	0.74***
	(0.24)	(0.24)
House Price Change	-0.90	-4.35**
	(1.38)	(2.10)
County FE	Yes	Yes
Bank-Time FE	Yes	Yes
Num. obs.	308613	310248
\mathbb{R}^2	0.98	0.99









	/1\	(2)
	(1)	(2)
	Failure within 1 year	Failure within 2 years
Bank Failed	0.004	-0.005
	(0.003)	(0.004)
Observations	339,644	339,644
R^2	0.007	0.012
County FE	Yes	Yes
Year FE	Yes	Yes
Controls	Yes	Yes









	r_{100K}	r_{500K}
	(1)	(2)
Bank Failed	2.381***	-0.065
	(0.904)	(0.295)
Bank Failed × High Search	3.352**	3.173***
Ç	(1.496)	(1.046)
Observations	306,889	308,537
R^2	0.984	0.987
County FE	Yes	Yes
Bank-Year FE	Yes	Yes
Controls	Yes	Yes









	r_{100K}	r_{500K}
	(1)	(2)
Bank Failed	4.164***	1.388*
	(0.957)	(0.722)
Observations	137,325	138,853
R^2	0.985	0.988
County FE	Yes	Yes
Bank-Year FE	Yes	Yes
Controls	Yes	Yes





