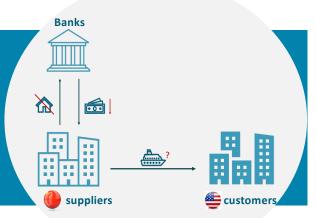
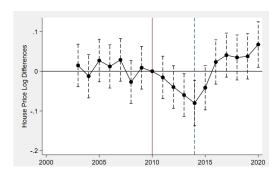
Collateral Values and Global Production Networks

Xiao Zhao (HKUST)

Fluctuations in **local real estate** markets can affect global production networks.



Price Effects from HPR



 46 cities adopted Housing Purchase Restrictions (HPR) in 2010 and 2011 in China which generate collateral shocks to firms

Collateral shocks and Financial Constraints

	Short Term Debt (1)	Log(Cash) (2)	Cash/Assets (3)	Log(Dividend) (4)
Treated × Post	-0.155* (0.08)	-0.184*** (0.06)	-0.015** (0.01)	-0.212*** (0.08)
Firm-Cohort FE	Yes	Yes	Yes	Yes
Cohort-Year FE	Yes	Yes	Yes	Yes
R-Squared	0.789	0.830	0.739	0.751
Observations	5,396	6,589	6,589	5,682

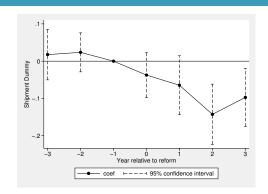
Firms are more **financially constrained** after collateral shocks

Collateral Shocks and Product Prices

	$\frac{\text{Log(Price)}}{(1)}$	Log(Quantity) (2)
Treated × Post	0.083* (0.05)	-0.272** (0.12)
Firm-Product-Cohort FE	Yes	Yes
Product-Cohort-Year FE R-Squared Observations	Yes 0.719 22,806	Yes 0.738 23,002

• Firms **raise product prices** after collateral shocks

Trade Reduction and Reallocation



- Treated Chinese suppliers **trade less** with US customers
- US customers **reallocate** imports to other suppliers

	Shipment Dummy	Log(1+Shipment)	Log(1+Container)
	(1)	(2)	(3)
Treated Supplier×Post	-0.057***	-0.101***	-0.110***
	(0.02)	(0.03)	(0.03)
$\% Treat \times Treat Supp \times Post$	-0.382***	-0.411***	-0.420***
	(0.05)	(0.12)	(0.13)
%Treat × Treat Cust, Control Supp × Post	1.698***	2.280**	2.510**
	(0.55)	(1.07)	(1.26)
Pair-Cohort FE	Yes	Yes	Yes
Cohort-Year FE	Yes	Yes	Yes
R-Squared	0.357	0.519	0.509
Observations	64,696	64,696	64,696

Conclusion

- Real estate shocks affect firms' external financing
- Financially constrained firms raise exporting product prices
- A 6% drop in collateral value leads to an 11% reduction in trade between Chinese suppliers and US customers





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