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The Role of Internally Financed Capex in Rising Chinese Corporate Debts

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investment efficiency as a possible important driver behind China's high and rising corporate leverage, in light of its high investment rate and low internally funded capex ratio.



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by taking into consideration debt issued by LGFVs. However, their estimate of augmented debt is only available since 2012 and its methodology can be debated (IMF <u>2017</u>).

- 4. The estimation results under benchmark estimation Eqs. (<u>B</u>), (<u>C</u>) and (<u>D</u>) are quite similar and will not be reported in the paper.
- 5. The potential weakness of the difference-GMM estimator is that lagged levels are often rather poor instruments for first-differenced variables. The system-GMM estimator includes lagged levels as well as lagged differences (Arellano and Bover <u>1995</u>; Bond et al. <u>2001</u>).

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This paper was written in part while Guonan Ma visited the Faculty of Business Administration at University of Macau and ESSCA School of Management.

Appendices

Appendix A: Variables definitions and data sources

Corporate debt	Credit to non-financial corporations from all sectors at market value in percentage of GDP. Data sources: BIS, OECD and IMF
Internally funded corporate capital expenditure	Ratio of corporate earnings to gross capital formation of non-financial corporates. Corporate earnings defined as disposable income of non-financial corporates adjusted for the net acquisition of non-financial assets. Data sources: OECD, and authors' calculation
Government	Credit to general government from all sectors at market value in percentage of GDP

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Industry, value added	Industry, value added in percentage of GDP. Data source: World bank WDI (NV.IND.TOTL.ZS)
Corporate debt to equity ratio	Ratio of corporate debt to total market capitalization of listed domestic companies in percentage of GDP. Market capitalization is the share price times the number of shares outstanding (all classes) for listed domestic companies, end of year values. Data sources: BIS, World Bank WDI (CM.MKT.LCAP.GD.ZS), and authors' calculation
Bond yield	Year-end 10-year government bond yield. Data sources: OECD and Bloomberg
Global growth rate	Annual percentage growth rate of GDP at market prices based on constant local currency and constant 2010 US dollars. Data sources: World Bank and OECD
G3 policy rate	Averaged policy interest rate of USA, Japan and Euro area. Lombard rate of Bundesbank is used for the euro area for the period from 1995 to 1998. Yearly averaged data and year- end data are both used. Data sources: BIS, St. Louis FED and Bundesbank

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Obs	Mean	SD	Min	Мах
831	0.809	6.018	- 42.100	51.100
898	2.979	3.362	- 14.814	25.557
902	29,952.690	16,047.960	2564.071	97,864.200
861	545.247	984.762	- 5801.609	11,919.720
902	23.586	5.126	9.819	47.686
887	26.780	6.011	10.671	47.559
	Obs 831 898 902 861 902 887	ObsMean8310.8098982.97990229,952.690861545.24790223.58688726.780	Obs Mean SD 831 0.809 6.018 898 2.979 3.362 902 29,952.690 16,047.960 861 545.247 984.762 902 23.586 5.126 887 26.780 6.011	ObsMeanSDMin8310.8096.018-42.1008982.9793.362-14.81490229,952.69016,047.9602564.071861545.247984.762-5801.60990223.5865.1269.81988726.7806.01110.671

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Variable	Obs	Mean	SD	Min	Мах
Saving rate	902	25.291	7.854	8.331	54.651
Expected USD appreciation	738	0.903	0.081	0.768	1.046

The descriptive statistics of the variables in first difference (Δ) are also reported for non-stationary variables

Appendix C: Unit root analysis

We perform three main panel unit root tests to ensure that all the variables included are stationary: the W *t*-bar test of Im et al. (2003) with the W_IPS statistic, the Fisher-type test of Maddala and Wu (1999) with the P-MW statistic.

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Variable	୦୦ ୫ିରେnt	Constant and trend	E<u>o</u>MSV ant	Constant and trend	C_0954Q ht	Constant and trend	Decision
	Constant	Constant and trend	Constant	Constant and trend	Constant	Constant and trend	
Panel unit roo	ot tests						
CorpDebt	1.73162	0.79629	72.0376	83.2772	1.81649	1.43835	Non-stat.
IFCE	- 3.83248***	- 3.13355***	133.806***	142.369***	- 3.54595***	- 4.45349***	Stationary
Growth	– 12.0654***	- 9.63171***	297.905***	239.182***	- 11.5073***	- 8.93756***	Stationary

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Time series unit root tests	CMr(StBAS)Constant and trend	02a s(1981)	ewastant and trend	VZA\$N grtF	and trend	
	Constant	Constant and trend	Constant	Constant and trend	Constant	Constant and trend	
Globalgrowth	0.163079		– 11.0561**		- 2.35112**		Stationary
G3Rate		0.056020		- 8.40132		- 2.00595	Non-stat.
USTIPS		0.112803		- 9.60162		- 2.10256	Non-stat.
USDNEER	0.105109		-		- 0.65211		Non-stat.

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