# Exchange Rate Flexibility and Employment

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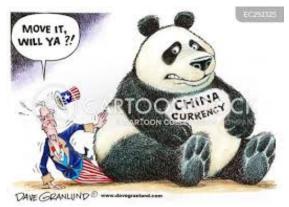
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### Motivation

Introduction

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 The Chinese exchange rate regime in early 2000s faced substantial criticism



### Motivation

Introduction

- Exchange rates vs labor market
- Effects of exchange rates on employment at the country or industry level
  - ► Campa and Goldberg (2001), Klein, Schuh and Triest (2003)
- On the micro side
  - Dai and Xu (2017): The effect of RER shocks on resource re-allocation
  - Not many studies on the effect of exchange rate regime choices

# This paper

Introduction

- Can exchange rate flexibility affect firms' re-allocation?
- Theory and empirical evidence
- The take-away message
  - ▶ In theory: exchange rate flexibility affects firms' decisions in a nonlinear way
    - $\diamond$  With high labor intensity in production, fixed  $\rightarrow$  higher employment
    - $\diamond$  With high capital intensity in production, flexible  $\rightarrow$  higher employment
  - ▶ Empirical evidence: Chinese firm-level data

### Literature

Introduction

- Exchange rate vs trade:
  - ► Rose (2000), Frankel and Rose (2002), Klein and Shambaugh (2006), Bergin and Lin (2012)
- Exchange rate vs employment:
  - ► Campa and Goldberg (2001), Klein, Schuh and Triest (2003), Dai and Xu (2017)
- Exchange rate regime vs growth, the finance channel:
  - ▶ Aghion et al. (2009)

## Roadmap

Introduction

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- Introduction
- Theory
- Empirical evidence
- Summary and future research

### Households

- A simple one-period model
- Utility

$$\mathbb{E}\left[\log C + v\left(D\right)\right]$$

where D denotes the real value of investment portfolio at the end of the period.

Budget constraint

$$C + qD + \frac{M}{P} \le \frac{WL + R\bar{K} + \Pi + T}{P}.$$

CIA constraint

$$PC < M$$
.

## International Risk Sharing

Investment portfolio

$$1 = \mathbb{E}\left[\frac{v'(D)}{C^{-1}}q^{-1}\right]$$

 For a representative household in Foreign to invest in the same investment portfolio

$$1 = \mathbb{E}\left[\frac{v'\left(D^*\right)}{C^{*-1}}\left(\frac{\mathcal{E}P^*}{P}q^{-1}\right)\right]$$

International risk sharing

$$\frac{v'(D^*)}{C^{*-1}}\left(\frac{\mathcal{E}P^*}{P}\right) = \frac{v'(D)}{C^{-1}}$$

• With linear  $v(\cdot)$ , the standard Backus-Smith condition

$$\mathcal{E} = \frac{PC}{P^*C^*}$$

### Firms

Production

$$Y(j) = \frac{AK(j)^{1-\alpha_j} L(j)^{\alpha_j}}{\alpha_j^{\alpha_j} (1-\alpha_j)^{1-\alpha_j}}$$

Marginal cost:

$$MC(j) = \frac{R^{1-\alpha_j}W^{\alpha_j}}{A}$$

Dixit-Stiglitz demand structure

Theory

$$Y_{H} = \left(\int_{0}^{1} Y_{H}(j)^{\frac{\eta-1}{\eta}} dj\right)^{\frac{\eta}{\eta-1}}, \ Y_{H}^{*} = \left(\int_{0}^{1} Y_{H}^{*}(j)^{\frac{\eta-1}{\eta}} dj\right)^{\frac{\eta}{\eta-1}}$$

Price rigidity: firms set prices before sales and shocks.

# Sticky Price

- Local currency pricing (LCP)
- Optimal prices:

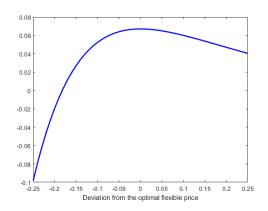
$$P_{H}(j) = \frac{\eta}{\eta - 1} \mathbb{E} [MC(j)]$$

$$P_{H}^{*}(j) = \frac{\eta}{\eta - 1} \mathbb{E} \left[ \frac{MC(j)}{\mathcal{E}} \right]$$

 Nominal exchange rate flexibility will play a significant role in influencing firms' pricing decisions.

Prices vs Profits:

a negative deviation in price  $P_H$  (or  $P_H^*$ ) from the optimal flexible price yields a greater profit decline than a positive deviation



Click here to Lemma.

- Why?
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- ➤ The first term (profit per unit): a one percent decrease from the optimal flexible price will cause a greater decline in unit profit than a one percent increase.
- ▶ Hence, firms set higher prices to avoid loss when facing uncertainties!

## Equilibrium

- Capital market clears:
  - R is determined by

$$\bar{K} = \int_0^1 \frac{(1 - \alpha_j) MC(j)}{R} \left( Y_H(j) + Y_H^*(j) \right) dj$$

- Labor market:
  - ▶ Wage rigidity: W at some reservation value at the beginning of the period
  - ▶ Labor input: determined by labor demand

## Exchange Rate Policy

- Shocks: a real shock (productivity shock A) and a nominal shock (Foreign nominal demand shock  $M^*$ ).
- Exchange rate regimes:
  - ▶ Fixed exchange rate regime:

$$M = M^*$$

► Flexible exchange rates: log *M* indepdently drawn from a random distribution.

## Results on Comparative Advantages

#### Lemma

Under the assumptions that  $v(\cdot)$  is linear and  $\gamma = \frac{1}{2}$ , we can show that

$$\frac{\partial (p_H^{flexible}(j) - p_H^{fixed}(j))}{\partial \alpha_j} > 0 \text{ and } \frac{\partial (p_H^{*flexible}(j) - p_H^{*fixed}(j))}{\partial \alpha_j} > 0.$$
 (1)

 Comparative advantage of fixed exchange rates (flexible exchange rates) for labor-intensive (capital-intensive) firms

 Prices set based on expectations: greater uncertainties → higher preset prices (click here)

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  - ▶ Exchange rate adjustments effectively buffer foreign shocks

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• With labor-intensive technology:

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  - Uncertainty largely comes from nominal exchange rate fluctuations
  - Fixed exchange rates  $\rightarrow$  comparative advantage (lower exporting prices)

## Results on Employment

### Proposition

Under the assumptions in Lemma 1, given any realized A, M, and  $M^*$ , we can show that

$$\frac{\partial (L^{flexible}(j) - L^{fixed}(j))}{\partial \alpha_j} < 0.$$

- Exchange rate flexibilities affect firms' employment but in a non-linear way
- Labor-intensity in production matters for the effect of exchange rate flexibilities.

# Estimation Strategy

Employment regression:

$$\begin{aligned} \log(\textit{emp}_{\textit{kt}}) = & \beta_0 + \beta_1 \cdot \textit{fixed}_{\textit{k},\textit{t}} + \beta_2 \cdot (\textit{labor}_{\textit{k}} \times \textit{fixed}_{\textit{k},\textit{t}}) \\ & + \textit{\textbf{Z}}_{\textit{k},\textit{t}}' \lambda + \gamma_{\textit{h},\textit{t}} + \gamma_{\textit{k}} + \epsilon_{\textit{k},\textit{t}} \end{aligned}$$

Data 000000000

- ▶ Prediction:  $\beta_1 < 0$  and  $\beta_2 > 0$
- Price regression:

$$\log(P_{k,j,t}) = \beta_0 + \theta_1 \cdot \text{fixed}_{j,t} + \theta_2 \cdot (\text{labor}_k \times \text{fixed}_{j,t}) + Z'_{k,t} \lambda + \gamma_{h,t} + \gamma_k + \epsilon_{k,t}$$

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▶ Prediction:  $\theta_1 > 0$  and  $\theta_2 < 0$ 

- Datasets: Chinese firm-level data, Customs data, Klein and Shambaugh (2008)
- Exchange rate flexibility
  - ▶ Bilateral exchange rate regime: Klein and Shambaugh (2008)
  - ▶ Firm level exchange rate flexibility: firm-level export (average across all years) as weight, weighted aggregation between China and all exporting destinations.
- Labor intensity: wage payment to value-added ratio (average across all years in the sample)
- Other variables:
  - ► Firm characteristics: age, profit margin, leverage ratio, export status, firm level RER and etc.

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#### Baseline Results

Introduction

	(1)	(2)	(3)	(4)
labor  imes fixed	0.209***		0.337***	
	(0.021)		(0.023)	
labor $ imes$ peg		0.196***		0.315***
		(0.024)		(0.027)
labor $ imes$ inpeg		0.336***		0.457***
		(0.048)		(0.048)
fixed	-0.037***	, ,	-0.091***	, ,
	(0.009)		(0.010)	
peg	` ,	-0.045***	` ,	-0.088***
		(0.011)		(0.013)
inpeg		-0.040**		-0.112***
		(0.019)		(0.019)
log rer	0.047***	0.048***	0.039***	0.039***
	(0.003)	(0.003)	(0.003)	(0.003)
Control variables	NO	NO	YES	YES
Industry $ imes$ Time FE	YES	YES	YES	YES
Firm FE	YES	YES	YES	YES
R-squared	0.883	0.883	0.938	0.938
Observations	432,972	432,972	305,765	305,765

Data ○○●○○○○○○

## Price Regression Results

	Full S	Sample	Excluding P. T.		Excluding P.	T. and T. I.
	(1)	(2)	(3)	(4)	(5)	(6)
labor × fixed	-0.133***		-0.093***		-0.094***	
	(0.014)		(0.017)		(0.017)	
labor $\times$ peg		-0.174***		-0.119***		-0.119***
		(0.020)		(0.025)		(0.025)
labor × inpeg		-0.076***		-0.060***		-0.061***
		(0.017)		(0.020)		(0.020)
fixed	0.040***		0.026***		0.026***	
	(0.005)		(0.006)		(0.006)	
peg		0.026**		0.008		0.009
		(0.010)		(0.011)		(0.011)
inpeg		0.029***		0.022***		0.022***
		(0.006)		(0.007)		(0.007)
log rer	0.023	0.009	0.023	0.011	0.024	0.012
	(0.014)	(0.014)	(0.017)	(0.017)	(0.017)	(0.017)
Control variables	YES	YES	YES	YES	YES	YES
$Firm \times Product \times Country FE$	YES	YES	YES	YES	YES	YES
Time FE	YES	YES	YES	YES	YES	YES
R-squared	0.960	0.960	0.961	0.961	0.961	0.961
Observations	837,934	837,934	620,738	620,738	618,144	618,144

Data

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# Policy Shock in China

	(1)	(2)	(3)	(4)
labor × post 2006 dummy	-0.485***	-0.246***	-0.401***	-0.259***
	(0.020)	(0.017)	(0.021)	(0.018)
post 2006 dummy	0.330***	0.199***		
	(0.008)	(0.007)		
log rer	-0.074***	0.015***	0.014***	0.015***
	(0.004)	(0.004)	(0.004)	(0.004)
Control variables	NO	YES	NO	YES
Industry $ imes$ Time FE	NO	NO	YES	YES
Firm FE	YES	YES	YES	YES
R-squared	0.852	0.936	0.891	0.941
Observations	216,533	152,297	216,162	152,008

#### Robustness Checks

- Alternative Measures on the key regressors (click here):
  - ▶ Firm level exchange rate flexibility: industry export share as the weight

- Labor-intensity: wage payment to sales ratio
- Excluding processing trade firms. (click here)
- Excluding trade intermediaries and SOEs. (click here)
- Excluding the GFC period. (click here)
- Initial period export share as the weight to construct exchange rate flexibility. (click here)

#### DCP

Dollar pricing: trade prices are in dollars

$$P_{H} = \frac{\eta}{\eta - 1} \mathbb{E}[MC]$$

$$P_{H}^{*} = \frac{\eta}{\eta - 1} \mathbb{E}\left[\frac{MC}{\mathcal{E}^{CHN,US}}\right]$$

- CHN-US nominal exchange rate matters: NOT the nominal exchange rate between CHN and exporting destination!
- Adding CHN-US exchange rate regime to regressions: the coefficients on bilateral exchange rate regime may become weaker under DCP

# DCP: Employment Regression Results

	(1)	(2)	(3)	(4)
labor × US fixed	0.290***	0.309***	0.247***	0.275***
	(0.073)	(0.073)	(0.073)	(0.075)
$labor \times fixed$	-0.027	, ,	0.009	, ,
	(0.148)		(0.145)	
labor $ imes$ peg		-0.083		-0.075
		(0.152)		(0.153)
labor $ imes$ inpeg		0.378		0.632*
		(0.391)		(0.356)
US fixed	-0.206***	-0.211***		
	(0.033)	(0.033)		
fixed	0.040		-0.027	
	(0.068)		(0.067)	
peg		0.054		0.002
		(0.070)		(0.071)
inpeg		-0.055		-0.210
		(0.177)		(0.155)
log rer	0.061***	0.060***	0.131***	0.130***
	(0.020)	(0.020)	(0.020)	(0.020)
Control variables	YES	YES	YES	YES
Industry $ imes$ Time FE	NO	NO	YES	YES
Firm FE	YES	YES	YES	YES
R-squared	0.949	0.949	0.959	0.959
Observations	27,358	27,358	26,526	26,526

Data

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# DCP: Price Regression Results

			irms		Excluding P. T.		
	(1)	(2)	(3)	(4)	(5)	(6)	
labor × US fixed	-0.176***	-0.195***	-0.174***	-0.198***	-0.135**	-0.170**	-
	(0.048)	(0.055)	(0.048)	(0.056)	(0.066)	(0.076)	
labor × fixed	-0.008		-0.007		-0.060		
	(0.042)		(0.044)		(0.061)		
labor × peg		0.048		0.054		0.015	
		(0.060)		(0.061)		(0.081)	
labor × inpeg		-0.026		-0.031		-0.092	
		(0.049)		(0.051)		(0.068)	
US fixed	0.009	0.029					
	(0.022)	(0.023)					
fixed	-0.023		-0.012		0.009		
	(0.020)		(0.020)		(0.026)		
peg		-0.072***		-0.053**		-0.021	
		(0.027)		(0.027)		(0.032)	
inpeg		-0.004		0.003		0.022	
		(0.022)		(0.022)		(0.028)	
log rer	-0.465***	-0.474***	-0.026	-0.034	-0.028	-0.030	
	(0.044)	(0.044)	(0.035)	(0.035)	(0.040)	(0.040)	
Control variables	YES	YES	YES	YES	YES	YES	
Firm × Product × Country FE	YES	YES	YES	YES	YES	YES	
Time FE	NO	NO	YES	YES	YES	YES	
R-squared	0.952	0.952	0.952	0.952	0.952	0.952	
Observations	158,832	158,832	158,832	158,832	101,906	101,906	

### Summary

- Data supports the theoretical predictions
- The results hold in a number of robustness checks
- The role of DCP

### Concluding Remarks

- Theory: labor-intensity plays an important role in determining the effect of exchange rate flexibility on firms' employment and prices
- Data: empirical evidence provides strong support to the theory
- Future work: discussion of optimal exchange rate policies

#### Alternative Measures

	l abor l	ntensity	FX Rate Re	EX Rate Regime Flexibility		
	(1)	(2)	(3)	(4)		
labor × fixed	0.645***		0.147***			
	(0.067)		(0.015)			
labor $ imes$ peg		0.606***		0.168***		
		(0.074)		(0.022)		
labor  imes inpeg		1.003***		0.103***		
		(0.182)		(0.035)		
fixed	-0.027***	,		, ,		
	(0.009)					
peg	` ,	-0.027***				
		(0.010)				
inpeg		-0.045***				
		(0.018)				
Control variables	YES	YES	YES	YES		
Industry $\times$ Time FE	YES	YES	YES	YES		
Firm FE	YES	YES	YES	YES		
R-squared	0.938	0.938	0.929	0.929		
Observations	305,765	305,765	1,676,610	1,676,610		

Back to robustness checks

# Excluding GFC and Processing Trade

	Excluding GFC		Excluding Pr	ocessing Trade
	(1)	(2)	(3)	(4)
labor × fixed	0.171***		0.364***	
	(0.029)		(0.027)	
labor $ imes$ peg		0.179***		0.326***
		(0.035)		(0.033)
labor $ imes$ inpeg		0.189***		0.501***
		(0.056)	(0.051)	
fixed	-0.025*	, ,	-0.098***	
	(0.013)		(0.011)	
peg		-0.038**		-0.091***
		(0.017)		(0.014)
inpeg		-0.011		-0.125***
		(0.022)		(0.020)
Control variables	YES	YES	YES	YES
Industry $\times$ Time FE	YES	YES	YES	YES
Firm FE	YES	YES	YES	YES
R-squared	0.939	0.939	0.941	0.941
Observations	207,869	207,869	229,703	229,703

Back to robustness checks

# Excluding Trade Intermediaries and SOEs

	Excluding In	ntermediaries	Excludir	ng SOEs
	(1)	(2)	(3)	(4)
labor  imes fixed	0.336***		0.312***	
	(0.023)		(0.023)	
labor $ imes$ peg		0.315***		0.296***
		(0.027)		(0.027)
labor $ imes$ inpeg		0.458***		0.409***
		(0.048)		(0.048)
fixed	-0.091***	, ,	-0.080***	,
	(0.010)		(0.010)	
peg	,	-0.088***	, ,	-0.079***
, -		(0.013)		(0.013)
inpeg		-0.113***		-0.096***
		(0.019)		(0.019)
Control variables	YES	YES	YES	YES
Industry $ imes$ Time FE	YES	YES	YES	YES
Firm FE	YES	YES	YES	YES
R-squared	0.938	0.938	0.936	0.936
Observations	305,244	305,244	292,714	292,714

Back to robustness checks

## Base Year Export Constructed Measures

	(1)	(2)	(3)	(4)
labor × fixed	0.359***		0.336***	
	(0.052)		(0.054)	
labor $ imes$ peg		0.306***		0.311***
		(0.058)		(0.061)
labor $ imes$ inpeg		0.634***		0.504***
		(0.131)		(0.115)
fixed	-0.075***	, ,	-0.074***	` ,
	(0.026)		(0.026)	
peg	, ,	-0.046	, ,	-0.067**
		(0.031)		(0.032)
inpeg		-0.188* <sup>*</sup> *		-Ò.119* <sup>*</sup> *
		(0.053)		(0.048)
Control variables	NO	NO	YES	YES
Industry $ imes$ Time FE	YES	YES	YES	YES
Firm FE	YES	YES	YES	YES
R-squared	0.906	0.906	0.939	0.939
Observations	65,736	65,736	54,830	54,830

Back to robustness checks.