Manufacturing - Finance Comparative Advantage and Global Imbalances by *Rui Mao* and *Yang Yao*

> ABFER Inaugural Conference discussion by Martin Berka Victoria University of Wellington and CAMA

National University of Singapore Business School May 21, 2013

Comments: Model

- Do you think it is necessary to have a static model which predicts CA = 0 in a paper on global imbalances?
 - Merge the two models into a single one that has CA predictions

I don't understand some aspects of the modeling setup

- You seem to have an externality in the model: households choose to give capital, but for 0 direct return
 - The return comes in the form of a higher wage next year
 - ➤ "wage return" = 1 + r to facilitate the existence of two assets in a risk-free world
 - This is not a standard competitive equilibrium setup with price-takers
 - It seems you may be solving some kind of central planner's problem, which in your case doesn't equal the competitive allocation.
 - In a competitive allocation, households would choose K = 0

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Comments: Model

- Is this a well-defined steady state?
 - The within-generation problem has consumption smoothing and growing |CA|
 - ★ Consumption is constant in each generation: $C = \frac{1}{1+\beta} \left(Y_1 + \frac{Y_2}{1+r} \right)$
 - But with a constant interest rate and no risk, your model seems to have a unit root in NFA (*NFA* $\rightarrow \pm \infty$), possibly as a fraction of ouput
- Schmitt-Grohe & Uribe 2003 JIE show that SOE models with incomplete asset markets exhibit dependance on initial conditions, and so are inconsistent with a steady state growth path
- Stability which prevents transient shocks from having permanent consequences needs to be induced by, e.g., debt-elastic interest rate, convex adjustment costs, etc.
- What are the stability properties of your model?

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- The point you are making with the model is very intuitive and simple
- In a two-country world with perfect specialization, one country will end up making manufacturing stuff, the other will produce financial services
- Do you really need a very complex model to say this and bring idea to the data?

- Empirical exercise very similar to Chinn and Prasad (2003, JIE)
- One new variable: Relative labour productivity
- They cover 89 countries, you cover 24: probably can increase sample?
- Results are mostly consistent with Chinn and Prasad (2003)

Why this country selection?

- Two-country model, but data only for small open economies.
 - The main feedback loop in your model the dependance of interest rate on country characteristics (productivity) – need not be satisfied in the data.
- There are no CA-creditor countries in the sample except for Korea and Germany (Canada in a some years)
- Would be nice to see more Asian economies and the US, especially since the usual paradigm in explaining global CA imbalances is "East vs. West"

Why this country selection?

- Another reason why it would be nice to see more Asian countries:
 - Singapore, Hong Kong: world financial centers
 - Also very important manufacturing centers
 - But my guess is that their comparative advantage is in finance, not manufacturing
 - Singapore and Hong Kong run large CA surpluses
 - May not support the theory

- Link between Fiscal and CA balances
 - "Twin deficit" literature concludes no long-term relationship (some decades +, some -)
 - This is because both CA and FB driven by shocks
 - Persistence and the degree of commonality across countries matter for results

- Output per worker is an imprecise measure of what you mean by "productivity"
 - Imprecise measure of TFP: Both Y and L respond endogenously to TFP
 - On the flipside, Y/L can also move when TFP doesn't:
 - \star non TFP induced changes in K
 - ★ policy changes
 - ★ tax change
 - These are particularly relevant issues when looking at long (growth) horizons

- I use a panel of constructed sectoral TFP levels from another project
- TFP_{Man} / TFP_{Fin} levels do not suffer from the above issues
- Should give clearer evidence of link between TFP and CA
- No other variables, but that may work against me
- Smaller sample: only half of your countries, plus UK, Belgium and Slovenia



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 TFP_M / TFP_F vs CA: no clear link





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TFP_M/TFP_F vs CA in cross-section

Cross sections



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Pool vs Fixed effects panel

Dependent Variable: CA (constant not reported) Sample: 1995 2007 Total panel (balanced) observations: 195 Period weights (PCSE) standard errors & covariance (d.f. corrected)

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Variable	Coefficient	Std. Error	t-Statistic	Prob.
TFP_M / TFP_F	-0.035	0.024	-1.459	0.146
R-squared	0.011923			
Adjusted R-squared	0.006803			
F-statistic	2.328872			
Total panel (balanced) o Swamy and Arora estima Period weights (PCSE) s	bservations: 195 ator of componer standard errors &	nt variances covariance (d.	f. corrected)	
Variable	Coefficient	Std. Error	t-Statistic	Prob.
TFP_M / TFP_F	0.078	0.030	2.567	0.011
	Weighted S	Statistics		
R-squared	0 040284			
Adjusted R-squared	0.035311			
	Unweighted	Statistics		
R-squared	-0.108925			
Sum squared resid	0.363481			

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- Results go in opposite direction from yours: pool insignificant, CFX significantly positive
- Time-series drive the results
- But with only 15 years of data, your growth story should really come through in cross sectional results
- This does happen when using Y/L but not when using TFP