

Discussion of

Global Portfolio Rebalancing and Exchange Rates

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This paper

- One of the few papers focusing on the joint determination of cross border equity returns and exchange rates
 - the focus in the literature is typically on the co-determination of bond prices and exchange rates (UIP, CIP)
 - this paper focuses on the problem of mutual funds and their portfolio rebalancing in an open economy
- Very intense paper
 - portfolio choice in open economy is notoriously difficult, even with exogenous exchange rates
 - Think of Lucas trees in a two-country world with endogenous exchange rate (however, in partial equilibrium)
- Theory is motivated by the empirical analysis
 - justifies strong assumptions in the model

Main Results

- Theoretical mechanism:
 - ① Inelastic supply of FOREX and exchange rate risk create an asymmetry in mutual funds portfolios across countries
 - in particular, endogenous home bias (in levels and changes)
 - ② Capital gains on foreign equity positions result in excessive exposure to foreign stock market and rebalancing away from it
 - rebalancing is stronger in periods of high ER volatility
 - (reminiscent of Kraay & Ventura ptf view of Current Account)
 - ③ Capital outflows triggered by rebalancing result in home exchange rate appreciation
 - appreciation triggered by low relative returns on home equity
- Empirical evaluation of these implications using detailed micro-data on international equity positions of mutual funds
 - including estimation of aggregate FOREX supply elasticity

Comments I

Theoretical Framework

- While theoretical predictions are intuitive, the model is a bit too involved to be illustrative
 - e.g., the effect of κ (elasticity of FOREX supply) on portfolio home bias in levels and changes (rebalancing)
- Related, I did not get a clear sense of which results are robust and which are quantitative possibility
 - e.g., do high foreign returns always predict rebalancing away from foreign equity?
- At the same time, the model relies on strong assumptions:
 - e.g., exogenous interest rates, nominal returns, stationary nominal exchange rates, forex supply as a function of ER level
 - some of these assumptions can be relaxed, but maybe the right side of the trade-off is to have even stronger assumptions?

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- High foreign returns \Rightarrow_1 rebalancing away from foreign
 \Rightarrow_2 home ER appreciation
 - empirical test of \Rightarrow_1 and \Rightarrow_2 separately
 - test: high foreign returns \Rightarrow home ER appreciation?

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- High foreign returns \Rightarrow_1 rebalancing away from foreign \Rightarrow_2 home ER appreciation
 - empirical test of \Rightarrow_1 and \Rightarrow_2 separately
 - test: high foreign returns \Rightarrow home ER appreciation?
- Empirical estimation of the FOREX supply elasticity κ :
 - for structural interpretation, need a universe of cap flows ΔH_t^f
 - GIV: weighted minus unweighted average rebalancing (what if unweighted average is dominated by noise)

Comment III

General equilibrium

- ER determined in interaction of real and financial markets:
 - ① Goods market – interaction of budget constraint and goods market clearing (Mukhin and Itskhoki, 2019, 2021):

$$\beta B_{t+1} - B_t = \lambda E_t + \xi_t$$

- ② Financial market clearing balanced demand for currency:

$$B_{t+1}^* + N_{t+1}^* + Q_{t+1}^* = 0,$$

$$Q_{t+1}^* = -\frac{r_t - r_t^* - \mathbb{E}_t \Delta \log E_{t+1}}{\omega \sigma_e^2}$$

- This paper:
 - drops (1) and uses $Q_{t+1}^* = -\kappa(E_t - \bar{E})$ in (2)
 - replaces noise traders N_{t+1}^* with endogenous ptf rebalancing
 - relies only on dividend shocks
- Would be fun to do it in GE!