

Overivew

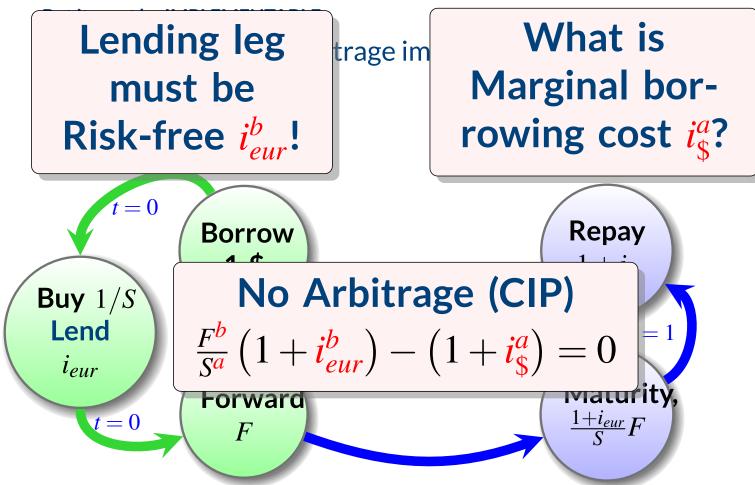
• Apparently deviations from CIP!

Du, Tepper, and Verdelhan (2018)

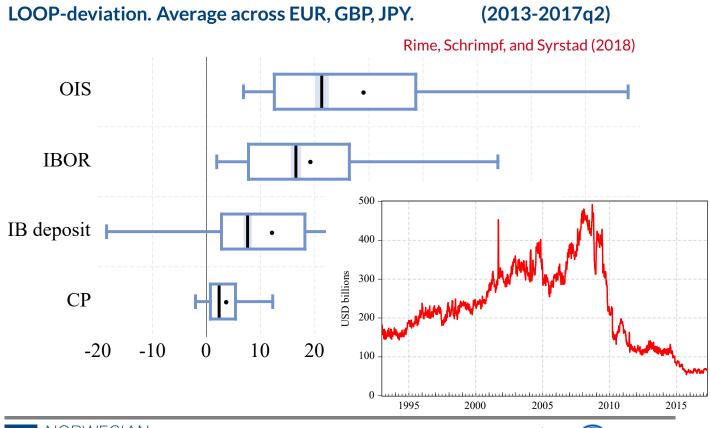
- Very important topic Arbitrage suggest malfunctioning markets
- Nice paper studying long dated relations
 - Lots of details on Cross-currency Basis Swaps
 - Conceptually similar to FX swaps
- Decompose deviations into ...
 - credit risk premium
 - liqudidity premium



Arbitrage is a powerful mechanism



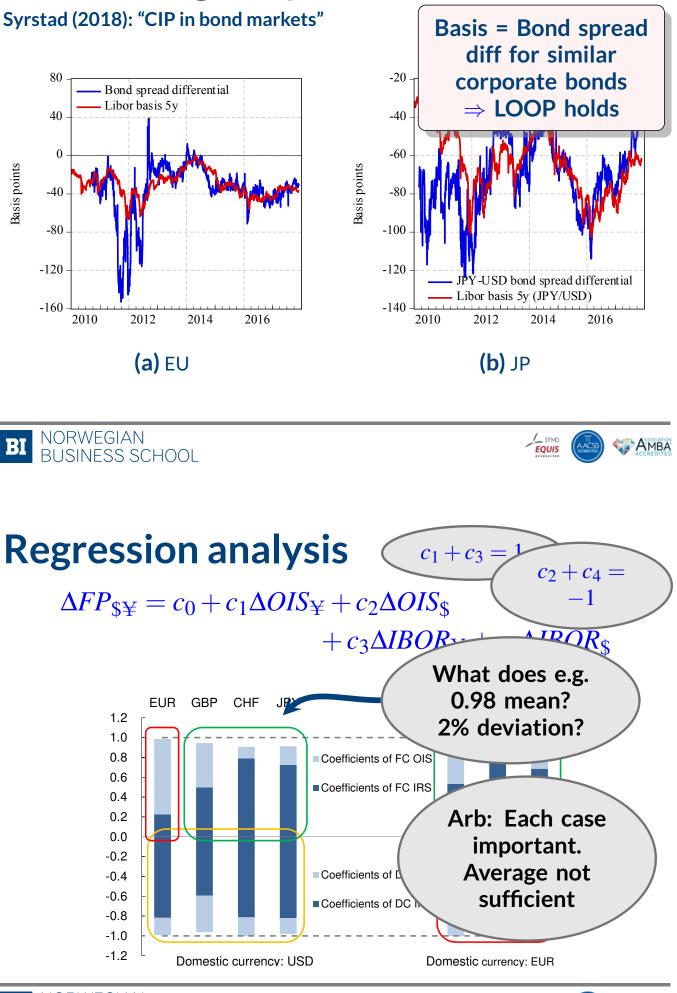
Importance of different interest rates



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LOOP using Corporate bonds



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Role of credit risk?

In LOOP-comparison

• Compare rates for same type of instrument/riskiness (instrument *i*)

$$\frac{F}{S} = \frac{1 + r_{\$}^f + \widetilde{cr}_{i,\$} + \widetilde{lp}_{\$}}{1 + r_{\star}^f + \widetilde{cr}_{i,\star} + \widetilde{lp}_{\star}}$$

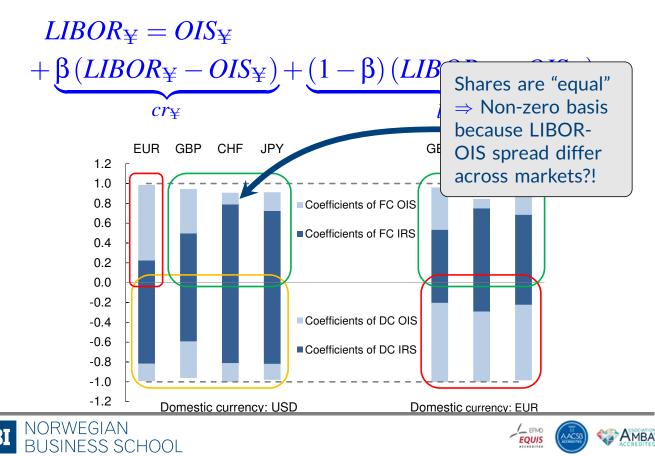
"Normal" times (before GFC):

$$\left. \begin{array}{c} \widetilde{lp}_{\$} = \widetilde{lp}_{\star} \\ \widetilde{cr}_{i,\$} = \widetilde{cr}_{i,\star} \end{array} \right\} \Rightarrow LOOP \text{ holds}$$

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Estimates: What do we learn?



Can it be credit risk?

• Du et al (2018): Deviation using government bonds

BUT: Arbitrageurs can't fund at gov.bond rates!

• LOOP holds for Interbank deposits

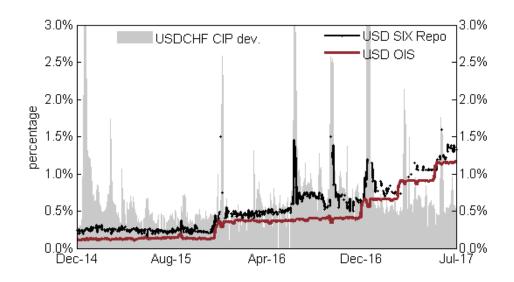
Suggest something else than Counterparty Risk



Liquidity premium

Kohler & Müller (2018): "CIP, relative funding liq., and cross-currency repos"

Repos that accept foreign paper as collateral Shadow cost of using collateral equal in both currencies







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Summary

- Very interesting paper on a hot topic
- Clarify economic interpretation of regression results
- What does the magnitudes imply?
- Do constrained panel regressions: Get consistent USD-premiums across currencies
- Triangular relation: Do Risk-shares add up?

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References I

- Wenxin Du, Alexander Tepper, and Adrien Verdelhan. Deviations from covered interest rate parity. *Journal of Finance*, 73(3):915–957, 2018.
- Daniel Kohler and Benjamin Müller. Covered interest rate parity, relative funding liquidity and cross-currency repos. typescript, Swiss National Bank, 2018. URL https://www.snb.ch/n/mmr/reference/sem_2018_09_ 21_mueller/source/sem_2018_09_21_mueller.n.pdf.
- Dagfinn Rime, Andreas Schrimpf, and Olav Syrstad. Covered interest parity arbitrage. Working Paper 15, Norges Bank, 2018.
- Olav Syrstad. Covered interest rate parity in bond markets. typescript, Norges Bank, 2018.

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