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Research Interests

International Finance, Macroeconomics, Asset Pricing

Education

B.S. Applied Mathematics, University of Colorado, 2011, *Magna Cum Laude*

Visiting Ph.D. Student, Chicago Booth School of Business, Spring 2015

Ph.D. Finance, UCLA Anderson School, June 2016 (expected)

References

Hanno Lustig (Chair)
Stanford Graduate School of Business
Email: hlustig@stanford.edu
Phone: (310) 871-6532

Mikhail Chernov
UCLA Anderson School of Management
Email: mikhail.chernov@anderson.ucla.edu

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Job Market Paper

Trade Network Centrality and Currency Risk Premia

I uncover an economic source of exposure to global risk that drives international asset prices. Countries which are more central in the global trade network have lower interest rates and currency risk premia. As a result, an investment strategy that is long in currencies of peripheral countries and short in currencies of central countries explains the unconditional returns to the carry trade. To explain these findings, I present a general equilibrium model where central countries' consumption growth is more exposed to global consumption growth shocks. This causes the currencies of central countries to appreciate in bad times, resulting in lower interest rates and currency risk premia. In the data, central countries' consumption growth is more correlated with world consumption growth than peripheral countries', further validating the proposed mechanism.

Research Papers

Gravity in FX R^2: Understanding the Factor Structure in Exchange Rates, *with Hanno Lustig*

Exchange rates strongly co-vary against their base currency. We uncover a gravity equation in this factor structure: the key determinant of a country's exchange rate beta on the common base factor is the country's distance from the base country. The farther the country, the larger the beta. For example, the beta of the CHF/USD exchange rate on the dollar factor is determined by the distance

between Switzerland and the United States. Shared language, legal origin, shared border, resource similarity and colonial linkages also significantly lower the betas. On average, the exchange rates of peripheral countries tend to have high R^2s in factor regressions, while central countries have low R^2s. A no-arbitrage model of exchange rates replicates this distance-dependent factor structure when the exposure of pricing kernels to global risk factors is more similar for closer country pairs.

Research in Progress

Capital Longevity and Asset Prices, *with Patrick Kiefer*

Presentations (Including Scheduled)

Trade Network Centrality and Currency Risk Premia

Twelfth Annual Conference on Corporate Finance at Olin School of Business (November 2015), University of Colorado at Boulder (July 2015), Chicago Economics Dynamics Working Group (May 2015), Chicago Finance Brown Bag (April 2015), UCLA Anderson Finance Brown Bag (December 2014)

Teaching

UCLA Anderson School of Management

Instructor

MFE R/MATLAB Programming Workshop (Fall 2013, 2014, 2015)

Teaching Assistant

MBA Private Equity and Venture Capital, Professor Mark Garmaise (Winter 2012)

MFE Corporate Finance, Professor Mark Garmaise (Winter 2012)

MFE Quantitative Asset Management, Professor Jason Hsu (Spring 2014)

MFE Emprical Asset Pricing, Professor Hanno Lustig (Winter 2013, 2014)

University of Colorado at Boulder

Course Assistant

MS/BS Mathematical Statistics (Spring 2010)

MS/BS Statistical Computing (Fall 2010)

Honors, Awards, and Fellowships

UCLA Dissertation Year Fellowship (2015-2016)

UCLA Anderson Fellowship (2011-2015)

AFA Student Travel Grant (2015)

NSF grant for Undergraduate Mathematics research (2009-2011)

Participant in UC Berkeley Summer Explorations in Statistics Research (2010)

Professional Service

Referee

Journal of Economics and Business

Computing

R, MATLAB, Python, C++, Mathematica, Stata