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PRINCETON UNIVERSITY

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Office Contact Information

Department of Economics & Bendheim Center for Finance, Princeton University
Julis Romo Rabinowitz Building
Princeton, NJ 08544

Graduate Studies

Princeton University, 2015 to present
Ph.D. Candidate in Economics
Thesis Title: “Essays in Empirical Asset Pricing”
Expected Completion Date: June 2022

Princeton University, M.A., Economics, 2017

References

Professor Motohiro Yogo
Department of Economics
Bendheim Center for Finance
Princeton University
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Professor Markus Brunnermeier
Department of Economics
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Princeton University
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Professor Wei Xiong
Department of Economics
Bendheim Center for Finance
Princeton University
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Undergraduate Studies

University of Bonn, B.S., Economics, 2015
Summa Cum Laude, Rank: 1/378

Research & Teaching Fields

Primary Field: Finance, Empirical Asset Pricing
Secondary Fields: Market Microstructure, Applied Machine Learning

Teaching Experience

Princeton University, Teaching Assistant

Fall 2017 ECO342, Money & Banking, with Professor Markus Brunnermeier

Fall 2017, 2018, 2019 ECO464/FIN519, Corporate Restructuring, with Professor O. Griffith Sexton

Princeton University, Advisor for Undergraduate Research

2017 to present Junior Independent Work, advisor for undergraduate research, with Professors Will Dobbie, Christopher Neilson, and Adrien Matray

University of Bonn, Undergraduate Teaching Assistant

Spring 2013 Corporate Finance, with Professor Hendrik Hakenes

German Red Cross, High School Teacher, Koforidua, Ghana

Fall 2011 Computer Science, International Youth Voluntary Service Program (IJFD)

Research Experience & Other Employment

Summer 2018 Ph.D. Research Intern at Bundesbank (German Central Bank)

Summer 2017 Visiting Researcher at Bundesbank

Summer 2013 Consulting Intern at Ernst & Young (EY), Germany

Professional Activities

Referee for Econometrica, The Review of Economic Studies

Honors & Awards

2019 - 2020 Griswold Center for Economic Policy Studies Fellowship

2015 - 2021 Princeton University Graduate Fellowship

2015 - 2017 German National Academic Foundation Fellowship

2013 - 2014 Cusanuswerk Foundation Fellowship

2013 - 2014 University of Bonn Exchange Program Scholarship

2012 - 2015 Konrad Adenauer Foundation Fellowship

Research Papers

“Interacting Anomalies,” with K. Müller, more results and data on the project [website](#)

An extensive literature studies interactions of stock market anomalies using double-sorted portfolios. But given hundreds of known candidate anomalies, examining selected interactions is subject to a data mining critique. In this paper, we conduct a comprehensive analysis of all possible double-sorted portfolios constructed from 102 underlying anomalies. We find hundreds of statistically significant anomaly interactions, even after accounting for multiple hypothesis testing. An out-of-sample trading strategy that invests in the top backward-looking double-sort strategy generates equal-weighted (value-weighted) monthly average returns of 4% (2.7%) at an annualized Sharpe ratio of 2 (1.38), on par with state-of-the-art anomaly-based machine learning strategies.

“HFT and Price Informativeness,” with J. Gider and C. Westheide

We study how the informativeness of stock prices changes with the presence of high-frequency trading (HFT). Our estimate is based on the staggered start of HFT participation in a panel of international exchanges. With HFT presence, market prices are a less reliable predictor of future cash flows and investment, even more so for longer horizons. Further, firm-level idiosyncratic volatility decreases, and the holdings and trades by institutional investors deviate less from the market-capitalization weighted portfolio as a benchmark. Our results document that the informativeness of prices decreases subsequent to the start of HFT. These findings are consistent with theoretical models of HFTs ability to anticipate informed order flow, resulting in decreased incentives to acquire fundamental information.

“Identifying the Price Impact of Fire Sales Using High-Frequency Surprise Mutual Fund Flows”

This paper proposes a new method to isolate a plausibly exogenous component of mutual fund flows to estimate the price impact of fire sales. The method addresses a potential reverse causality problem: instead of mutual fund outflows inducing fire sales, which drive down prices, poor stock returns reduce mutual fund returns, which in turn trigger outflows. The solution is to construct a new instrument from high-frequency surprise flows. Using surprise flows to reexamine important findings in the literature, I find equity markets are deeper and less distortive than suggested.

“Payout-Induced Trading, Asset Demand Elasticities, and Market Feedback Effects”

This paper uses the reinvestment of corporate payouts by financial institutions as a nonfundamental shock to asset prices to estimate the slope of the demand curve for stocks and the real effects of stock returns on corporate financing and investment. Exploiting the separation of announcement and payment at the daily frequency, I find dividends in particular generate payment date price pressure but no announcement date news spillover effects, suggesting that dividend-induced trading is plausibly exogenous to fundamentals. Using dividend-induced trading as a natural experiment for stock returns, I estimate an asset demand elasticity of 1.25 and document a releveraging market feedback effect on investment, where firms respond to an exogenous stock price increase by issuing debt and use the funds to invest.

Research Papers in Progress

“Common Intermediation and Excess (Co-)Movement,” with P. Tremacoldi-Rossi

Using unique, message-level trade and quote data from the Brazilian stock exchange that reveal market participants' identities, this paper studies the behavior of algorithmic market makers and its implications for asset prices and market quality. First, we examine the cross-asset quoting behavior of market makers and document that inventory shocks in one asset shift market makers' demand for other stocks they intermediate. Second, exploiting two natural experiments, we show that this mechanism causes excess (co-)movement: stock pairs that are assigned a common designated market maker experience increases in the correlations of returns, liquidity, and volume; and designated market makers increase return volatility. However, designated market makers increase and stabilize liquidity, which attracts volume and increases asset prices. Overall, this shows a trade-off between liquidity and excess (co-)movement.

“Cryptocurrencies, Return Chasing, and Return Predictability,” with S. Nagel and Z. Wang

We combine the full information from the BTC blockchain with addresses of real entities and address clustering algorithms to construct a partially deanonymized BTC transaction history. We find that unsophisticated investors chase past BTC returns and that BTC purchases of sophisticated investors predict BTC returns.

“Machine Learning Institutional Trading and Return Predictability”

I train machine learning models to predict how financial institutions trade and use the predictions to construct expected excess demand. A long-short, front-running trading strategy exploiting this signal generates significant excess returns.

“Predicting Financial Crises: a Comprehensive Assessment,” with L. Liu and K. Müller

We provide a comprehensive evaluation of which variables are reliable predictors of financial crises. We evaluate thousands of candidate predictors and a large set of predictive models and find that variables related to credit, external imbalances, and macroeconomic conditions have robust forecasting ability out-of-sample.

Skills & Interests

Software	Python, Stata, L ^A T _E X, Machine Learning (Tensorflow, Scikit-learn), Blockchain analysis (BlockSci)
Languages	German (Native), French (Proficient)
Interests	Scuba Diving, Rock Climbing, Kiteboarding, Golf, Soccer, Virtual Reality, Traveling