

Yueliang (Jacques) Lu, FRM

Curriculum Vitae

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EDUCATION

Ph.D. in Business Administration (Finance), University of North Carolina at Charlotte 2023 (*Expected*)

- Chairs: Drs. [Yufeng Han](#) & [Weidong Tian](#) (Co-Chair)
- Committee Members: Drs. [Ethan Chiang](#), [Steven P. Clark](#) and [Christopher M. Kirby](#)
- Informal Advisor: Dr. [Guofu Zhou](#) (WashU)

Master of Science in Quantitative Finance and Risk Analytics, Rensselaer Polytechnic Institute 2017

- Advised by Prof. [Aparna Gupta](#)

Bachelor of Art in Economics, Major: Finance, Beijing Foreign Studies University 2016

PROFESSIONAL ACTIVITIES

- Certified Financial Risk Manager (FRM), Global Association of Risk Professionals (GARP)
- Chartered Financial Analyst (CFA), Level III candidate
- Bloomberg Market Concepts (BMC) Certified

PROFESSIONAL POSITIONS

2021 - 2023	Lecturer of Finance , Department of Finance, UNC Charlotte
2018 - 2023	Research/Teaching Assistant , Department of Finance, UNC Charlotte
2017	Research/Teaching Assistant , Rensselaer Polytechnic Institute
2017	Research Fellow , Global Association of Risk Professionals (June 2017 - December 2017)

RESEARCH INTERESTS

- Empirical (and Theoretical) Asset Pricing, Derivatives and Options, Big Data/Machine Learning in Finance

PUBLICATIONS

1. "Addressing Systemic Risk Using Contingent Convertible Debt - A Network Analysis," *European Journal of Operational Research*, 2021, Vol 290, Issue 1, pp. 263-277 (with [Aparna Gupta](#) and Runzu Wang)

- *Financial Management Association (FMA) Best Paper Award in Derivatives & Options (2018)*
- *INFORMS (Finance Section) Best Student Paper Award Finalist (2018)*
- *Global Association of Risk Professionals (GARP) Research Fellowship (2017)*

UNDER REVIEW

1. [Mispricing and Anomalies: An Exogenous Shock to Short Selling from the Dividend Tax Law Change](#)
(with [Yufeng Han](#), [Weike Xu](#) & [Guofu Zhou](#))
 - **The Accounting Review**, *Under Review*
 - Presentations: [CICF 2022](#), [SFS Cavalcade North America 2021](#), [AFA 2021 \(Ph.D. Poster\)](#), [MFA 2021](#), [FMA 2021](#), [CIRF 2021](#), [SFA 2020](#), [WashU Olin Finance Brownbag](#), and [UNC Charlotte Finance Seminar](#)

- Whether anomalies are due to mispricing or risk is an important question. We study the causal effect of short-sale constraints on anomalies by examining an extensive set of 182 anomalies documented in the accounting, finance and economics literature. Our identification strategy relies on a persistent, robust and plausibly exogenous shock to short-selling supply induced by the dividend tax law change in the Job and Growth Tax Relief Reconciliation Act (JGTRRA) of 2003. We find that anomalies become stronger following the dividend record months, driven by stronger overpricing as opposed to underpricing in the post-JGTRRA periods. Interestingly, while the shock magnifies returns to most anomaly types, we find that valuation anomalies seem unlikely to be driven by mispricing.
2. An On-line Machine Learning Return Prediction (with [Weidong Tian](#))
 - **Pacific-Basin Finance Journal**, Under Review
 - Presentations: [CIRF 2022](#), [INFORMS 2020](#), [International Risk Management Conference \(IRMC\) 2020](#)
 - This paper presents a new prediction methodology for long-short portfolio return in its multiplicative version. Our method relies on the on-line universal portfolio construction. We derive a closed-form predicting formula whose coefficients are solely determined by historical data. We empirically and robustly demonstrate that the predictive error can be as small as 2%. This methodology provides a promising application of on-line machine learning to portfolio return prediction with a sufficiently large dataset.

WORKING PAPERS & WORK IN PROGRESS

1. [Macroeconomic Extrapolation, Machine Learning, and Equity Risk Premium Forecast](#) (with [Yufeng Han](#))
 - **Job Market Paper**
 - Presentations: [FMA 2022](#) (scheduled), [International Symposium on Forecasting 2022](#), [CIRF 2022](#)
 - We present a macroeconomic trend extrapolation approach that utilizes all economic fundamentals of different time periods simultaneously in the aggregate market. We demonstrate that the trend-pooling method statistically and economically outperforms the historical average that assumes a constant equity risk premium, as well as [Rapach, Strauss, Zhou's \(2010\)](#) simple pooling method that ignores the historical information in macroeconomics. We further find that extrapolating via machine learning techniques generates monthly out-of-sample R_{OS}^2 statistics as high as 4%. Extrapolating economic fundamentals with a grid of moving averages more closely tracks important macroeconomic fluctuations and more effectively regulates the forecast variability, thereby generating superior and robust forecasting gains consistently over time.
2. [Equity Forward Return from Derivatives](#) (with [Weidong Tian](#) & [Steven P. Clark](#))
 - Presentations: [FMA 2022](#) (scheduled), [AFA 2022 \(Ph.D. Poster\)](#), [2021 CICF](#)
 - This paper develops a theory of forward returns for an equity index. A term structure of forward returns is estimated using information from derivatives markets, including index option prices and gammas, VIX-futures, and prices of VIX-options. We document a pro-cyclical term structure of S&P 500 forward returns and a robust short-term reversal pattern. Moreover, by designing and implementing a market-timing strategy, we demonstrate that forward equity returns provide real-time trading signals with substantial economic value.
3. Reconciling Forecasts (under empirical analysis stage)
4. Options and the Expected Market Return (under empirical analysis stage)

CONFERENCES AND SEMINARS (*presented by co-authors)

- 2022** Financial Management Association (FMA), Atlanta (**x2 papers**, *Scheduled*)
 Financial Management Association (FMA) Doctoral Student Consortium, (*Scheduled*)
 American Finance Association (AFA) (Ph.D. Poster), *Virtual*
 China International Conference in Finance (CICF), *Virtual*
 The 4th Derivatives Youth Forum (only 6 papers are selected each year), *Virtual*
 China International Risk Forum (CIRF), (**x2 papers**), *Virtual*
 The PKU-NUS Annual International Conference on Quantitative Finance and Economics (**x2 papers**), *Virtual*
 Financial Markets and Corporate Governance (FMCG) (**x2 papers**), *Virtual*
 The Auckland Centre for Financial Research Derivative Markets Conference, *Virtual*
 Financial Management Association European, *Virtual*
 International Symposium on Forecasting*
 UNC Charlotte Finance Seminar
- 2021** SFS Cavalcade North America*, *Virtual*
 China International Conference in Finance (CICF), *Virtual*
 American Finance Association (AFA) (Ph.D. Poster), *Virtual*
 Financial Management Association (FMA), Denver CO
 Midwest Finance Association (MFA) annual meeting*, *Virtual*
 China International Risk Forum (CIRF), *Virtual*
 World Finance Conference, *Virtual*
 International Young Finance Scholars' Conference, *Virtual*
 Shanghai University of Finance and Economics Finance Seminar*
 Wuhan University Finance Seminar*
 UNC Charlotte Finance Seminar
- 2020** Washington University in St. Louis Olin Finance Brownbag
 Southern Finance Association (SFA), *Virtual*
 INFORMS Annual Meeting, *Virtual*
 International Risk Management Conference, *Virtual*
- 2019** UNC Charlotte Joint Doctoral Workshop
- 2018** Financial Management Association (FMA)*, San Diego CA
 European Financial Management Association (EFMA)*, Milan Italy
 International Risk Management Conference (IRMC)*, Paris France
 INFORMS Annual Meeting, Phoenix AZ

PROFESSIONAL SERVICE

Journal Referee

International Review of Economics & Finance

Conference Discussant & Chair

- 2022: Financial Markets and Corporate Governance (FMCG) annual conference (x2 papers)
 2021: Financial Management Association Meeting (x2 papers)
 2020: Financial Management Association Meeting, Southern Finance Association Meeting

Conference Paper Reviewer

- 2021: Southern Finance Association Meeting, Eastern Finance Association Meeting

FELLOWSHIPS, GRANTS, AND AWARDS

- Ph.D. Graduate Assistantship, University of North Carolina at Charlotte 2018 – 2023
- UNC Charlotte Belk College Summer Research Grant
 - Project: “*Macroeconomic Extrapolation, Machine Learning, and Equity Risk Premium Forecast*” 2022
 - Project: “*What is the Time Series Regression of the Stock Market Return?*” 2021
- Ph.D. Travel Grant, [American Finance Association \(AFA\)](#) Annual Meeting 2020
- [Seth Bonder Foundation Ph.D. Student Grant](#), INFORMS Annual Meeting 2020
 - Paper: “*An On-line Machine Learning Return Prediction*”
- Summer Research Assistantship, University of North Carolina at Charlotte 2019
- Best Paper Award, [Financial Management Association \(FMA\)](#) Annual Meeting 2018
 - Paper: “*Addressing Systemic Risk Using Contingent Convertible Debt — A Network Analysis*”
- Best Student Paper Award Finalist, INFORMS Annual Meeting (Finance Section) 2018
 - Paper: “*Addressing Systemic Risk Using Contingent Convertible Debt — A Network Analysis*”
- Masters Research Fellowship, [Global Association of Risk Professionals \(GARP\)](#) 2017
 - Paper: “*Addressing Systemic Risk Using Contingent Convertible Debt — A Network Analysis*”
- Graduate Teaching Assistantship, Rensselaer Polytechnic Institute 2017
- Summer Research Assistantship, Rensselaer New Knowledge and Innovation Program 2017

TEACHING

University of North Carolina at Charlotte

Lecturer of Finance

1. FINN 3226 Financial Theory and Practice (Advanced topics for the finance major students)
 - Three empirical projects to study the executive (CEO) team, board of directors, corporate governance environment; cost of capital and capital structure; and payout policy.
 - Databases including *SEC EDGAR*, *Mergent Online* and *Bloomberg terminal*.
2. FINN 3120 Financial Management
 - Key topics include: The Time Value of Money, Interest Rates and Bond Valuation, Equity Markets and Stock Valuation, Risk and Return, and Cost of Capital

Guest Lecturer

1. FINN 6216 Quantitative Risk Management (with Prof. Weidong Tian) + Review Sessions
 - Topic 1: Volatility Trading: Implied volatility, VIX options, VIX futures, and Volatility derivatives pricing
 - Topic 2: Credit Risk: Structural (Merton) model, Reduced-Form model, and Altman’s Z-Score method
2. FINN 3223 International Financial Management (with Prof. Lloyd Blenman)
 - Topic: Foreign currency derivatives: futures and options

Course Evaluations — University of North Carolina at Charlotte

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Term	Course Number (Level)	Title	# of Students Enrolled	Response Rate	Score (Max of 5): Instructor was an Effective Teacher (Fin-section mean)	Score (Max of 5): Overall, I learned a lot in this course (Fin-section mean)
Summer 2022	FINN 3226 (Undergrad)	Financial Theory & Practice	9	100%	4.78 (4.36)	4.78 (4.39)
Spring 2022	FINN 3120 (Undergrad)	Financial Management	61	92%	4.25 (4.09)	4.45 (4.22)
Fall 2021	FINN 3120 (Undergrad)	Financial Management	65	85%	4.29 (4.18)	4.35 (4.25)
Summer 2021	FINN 3120 (Undergrad)	Financial Management	30	67%	4.35 (4.15)	4.40 (4.20)

Teaching Assistant

1. BPHD 8220 Financial Economic Theory II (Prof. Weidong Tian, second-year Ph.D. course)
2. BPHD 8200 Financial Economic Theory I (Prof. Weidong Tian, first-year Ph.D. course)
3. FINN 6216 Quantitative Risk Management (Prof. Weidong Tian, M.S. in Math Finance)
4. FINN 6203 Financial Economic Theory (Prof. Yufeng Han, M.S. in Math Finance)
5. FINN 3233 International Financial Management (Prof. Lloyd Blenman)

Rensselaer Polytechnic Institute**Teaching Assistant with Recitations**

1. Math 1010 Calculus I (with 4-hour recitation class to 120 students per week)

PROFESSIONAL MEMBERSHIP

- American Finance Association (AFA)
- Society for Financial Studies (SFS)
- Financial Management Association (FMA)
- Global Association of Risk Professionals (GARP)
- Institute for Operations Research and the Management Sciences (INFORMS)

REFERENCES

Yufeng Han (Chair)

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