Yueliang (Jacques) Lu Curriculum Vitae

August 2021

Department of Finance (Friday 388), Belk College of Business, University of North Carolina at Charlotte, 9209 Mary Alexander Rd, Charlotte, NC 28262, USA.

+1-571-325-8197

ylu28@uncc.edu

JacquesYL.github.io

EDUCATION

2018 - 2023	Ph.D. in Finance and Economics	University of North Carolina - Charlotte
	Co-advised by Profs. Yufeng Han & Weidong Tian	GPA: 4.00/4.00
2016 - 2017	M.Sc. in Quantitative Finance & Risk Analytics	Rensselaer Polytechnic Institute
	Advised by Prof. Aparna Gupta	GPA: 3.97/4.00
2012 - 2016	B.A. in Finance and Economics	Beijing Foreign Studies University
	Dual degree in English Language & Literature	

PROFESSIONAL POSITIONS

2021 - 2023	Lecturer of Finance, Department of Finance, UNC Charlotte	
2018 - 2023	Research/Teaching Assistant, Department of Finance, UNC Charlotte	
2019	Summer Research Assistant, Department of Management, UNC Charlotte	
2017	Teaching Assistant, Department of Mathematical Sciences, Rensselaer Polytechnic Institute	
2017	Summer Research Assistant, Lally School of Management, Rensselaer Polytechnic Institute	
2017	Research Fellow, Global Association of Risk Professionals (June 2017 - December 2017)	

RESEARCH INTERESTS

- Asset Pricing: Empirical (and Theoretical) Asset Pricing, Anomalies, Derivatives and Options, Recovery
- Financial Risk Management: Systemic Risk, Longevity Risk, Asset-Liability Management
- 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).
 - Best Paper Award, FMA Annual Meeting, 2018
 - Best Student Paper Award Finalist, INFORMS Annual Meeting, 2018
 - Masters Research Fellowship, Global Association of Risk Professionals (GARP), 2017

WORKING PAPERS

- 1. Serial Dependence in the Stock Market: What Can We Learn from Derivatives? (with Weidong Tian)
 - Presented at 2021 CICF (China International Conference in Finance), 7th International Young Finance Scholars' Conference, World Finance Conference 2021
 - We derive a model-free expression of the serial dependence coefficient of the stock market return in terms
 of the prices of available index options, VIX futures, and VIX options. As a result, we obtain a time-series
 market autocorrelation and beta coefficients between market returns over two consecutive periods. From a
 forward-looking perspective, we demonstrate short-term reversal for monthly returns robustly. Moreover,

we show that the fading memory belief based on historical observation yields comparable market autocorrelation and beta coefficients from the derivative market. Furthermore, we show that the derivative data reject the risk-neutral belief. Finally, we demonstrate that the derivative information helps to improve the predictability of the market return.

- Mispricing and Anomalies: An Exogenous Shock to Short Selling from JGTRRA (with Yufeng Han, Weike Xu & Guofu Zhou)
 - Presented at SFS Cavalcade North America 2021, FMA 2021 (Scheduled, October 20-23), MFA 2021, AFA 2021 (Ph.D. Poster), CIRF 2021, SFA 2020, WashU Olin Finance Brownbag, and UNC Charlotte Finance Seminar
 - Whether or not anomalies are due to mispricing or risk is an important question. We examine the causal effect of a novel shock to short selling, the Job and Growth Tax Relief Reconciliation Act (JGTRRA) of 2003, on an extensive set of 182 anomalies. We find that anomalies become stronger after the dividend record months in the post-JGTRRA periods, driven by stronger mispricing in the dividend record months, mainly from the overpriced stocks. Overall, our results support the idea that anomalies are mostly due to mispricing, and the persistence of mispricing is likely caused by arbitrage barriers such as JGTRRA.
- 3. An On-line Machine Learning Return Prediction (with Weidong Tian)
 - Presented at INFORMS 2020, International Risk Management Conference 2020
 - This paper presents a new prediction methodology on relative stock index return the ratio of a stock index return to an interest rate. The prediction methodology relies on the on-line universal portfolio construction. We derive a closed-form predicting formula whose coefficients are solely determined by historical data and demonstrate that the average daily predictive error in 2010-2018 can be as small as 2 percent. This approach provides a promising application of on-line machine learning to return prediction.

CONFERENCE AND SEMINARS (*presented by coauthors)

2021 SFS Cavalcade North America*, Virtual

China International Conference in Finance (CICF), Virtual

Financial Management Association (FMA) annual meeting, Denver CO (Scheduled)

World Finance Conference, Virtual

China International Risk Forum, Virtual

International Young Finance Scholars' Conference, Virtual

Midwest Finance Association (MFA) annual meeting*, Virtual

American Finance Association (AFA) annual meeting (Ph.D. Poster), Virtual

UNC Charlotte Finance Seminar (x2 papers)

2020 Southern Finance Association annual meeting, Virtual

Washington University in St. Louis Olin Finance Brownbag

INFORMS annual meeting, Virtual

International Risk Management Conference, Virtual

European Financial Management Association annual meeting (Cancelled due to COVID-19)

Financial Management Association European annual meeting (Postponed due to COVID-19)

- **2019** UNC Charlotte Joint Doctoral Workshop
- 2018 INFORMS annual meeting, Phoenix AZ

Financial Management Association (FMA) annual meeting*, San Diego CA European Financial Management Association annual meeting*, Milan Italy

International Risk Management Conference annual meeting*, Paris France

PROFESSIONAL SERVICE

Conference Discussant

- 2021: Financial Management Association Meeting, World Finance Conference
- 2020: Financial Management Association Meeting, Southern Finance Association Meeting

Conference Session Chair

- 2021: Financial Management Association Meeting
- 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	
Belk College Summer Research Grant, University of North Carolina at Charlotte	
Seth Bonder Foundation Student Registration Grant, INFORMS Annual Meeting	2020
Ph.D. Travel Grant, American Finance Association (AFA) Annual Meeting	2020
Summer Research Assistantship, University of North Carolina - Charlotte	2019
Best Paper Award, Financial Management Association (FMA) Annual Meeting	2018
Best Student Paper Award Finalist, INFORMS Annual Meeting (Finance Section)	
Highlighted on RPI Admissions Website as Outstanding Graduate Scholar (Links)	
Masters Research Fellowship Award, Global Association of Risk Professionals (GARP)	2017
Graduate Teaching Assistantship, Rensselaer Polytechnic Institute	
Summer Research Assistantship, Rensselaer New Knowledge and Innovation Program	
Masters' Scholars Research Program Award, Lally School Rensselaer Polytechnic Institute	

TEACHING

University of North Carolina at Charlotte

Lecturer of Finance

1. FINN 3120 Financial Management

Summer & Fall 2021

• Key topics include: The Time Value of Money, Discounted Cash Flow Valuation, 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)

Spring 2021

- Topic 1: Volatility Trading: Implied volatility, VIX options, VIX futures, and Volatility derivatives pricing
- Topic 2: Historical Simulation in the risk management (Value-at-Risk), Back testing, Stress testing
- Topic 3: Credit Risk: Structural (Merton) model, Reduced-Form model, and Altman's Z-Score method
- Recitation class: 2-hour class, and four times per semester
- 2. FINN 3226 Financial Theory & Practice (with Prof. Lloyd Blenman)

Spring 2021

• Topic 1: Binomial Lattices and American Option Pricing

Teaching Assistant

BPHD 8220 Financial Economic Theory II (Second-year Ph.D. course)
 BPHD 8200 Financial Economic Theory I (First-year Ph.D. course)
 Fall 2020
 FINN 6216 Quantitative Risk Management (M.S. in Math Finance)
 FINN 3226 Financial Theory & Practice
 Spring 2021
 Spring 2021

Rensselaer Polytechnic Institute

Teaching Assistant with Recitations

5. FINN 3233 International Financial Management

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

2017

Spring 2020, 2019

SKILLS AND CERTIFICATIONS

Certifications FRM Passed Part I and Part II, CFA Level III Candidate, Bloomberg Market Concept Certified.

Technical Skills Numerical/Simulation Analysis, Computational Optimization, Stochastic Calculus,

Network Science, Bayesian/Time Series Analysis, Machine Learning.

Programming R, MATLAB, Python, Jupyter Notebook, Stata, Neo4j, Gephi, AMPL, and LT-X.

Languages Native in Chinese, fluent in English, and active learner in Spanish.

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)

REFERENCE

Dr. Yufeng Han (Chair)
Professor of Finance
Belk College of Business
Friday Building Room 340A
University of North Carolina at Charlotte
9209 Mary Alexander Rd, Charlotte, NC 28262
yhan15@uncc.edu
(704)-687-8773

Dr. Weidong Tian (Co-Chair)
Professor of Finance and Distinguished Professor of Risk Management and Insurance
Belk College of Business
Friday Building Room 202A
University of North Carolina at Charlotte
9209 Mary Alexander Rd, Charlotte, NC 28262
wtian1@uncc.edu
(704)-687-7702