

Yueliang (Jacques) Lu

Curriculum Vitae

December 2020

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

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

RESEARCH INTERESTS

- *Asset Pricing*: Empirical Asset Pricing, Anomalies, Derivatives and Options, Quantitative Finance
- *Financial Risk Management*: Systemic Risk, Correlation Risk, Longevity Risk, Asset-Liability Management
- *Application of Machine Learning in Finance*

PUBLICATIONS

1. [Addressing Systemic Risk Using Contingent Convertible Debt - A Network Analysis](#), **European Journal of Operational Research** (with [Aparna Gupta](#) and Runzu Wang, forthcoming).
- **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 & WORK IN PROGRESS

1. [Mispricing and Anomalies: An Exogenous Shock to Short Selling from the Dividend Tax Law Change](#) (with [Yufeng Han](#), [Weike Xu](#) & [Guofu Zhou](#))
 - Presented at [American Finance Association 2021 Annual Meeting \(Scheduled, January 2021\)](#), [Midwest Finance Association 2021 Annual Meeting \(Scheduled, March 2021\)](#), [Southern Finance Association 2020 Annual Meeting](#), and WashU Finance Brownbag
 - We study the causal effect of short selling on asset pricing anomalies by exploiting a novel exogenous shock to short selling. After the Job and Growth Tax Relief Reconciliation Act (JGTRRA) of 2003, equity lenders are reluctant to lend shares around the dividend record dates because substitute dividends that they would receive are taxed at ordinary income rates while qualified dividends are taxed at 15 percent, thus creating a negative shock to short selling. Using arguably the most comprehensive set of anomalies to date and the difference-in-differences (DID) regression framework, 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. We further show that the effect mainly comes from the overpriced stocks. Overall, our results provide strong evidence that most anomalies are likely due to mispricing, with valuation anomalies as an exception.
2. **An On-line Machine Learning Return Prediction** (with [Weidong Tian](#))

- *R&R, Operations Research Letters*
 - Presented at [INFORMS 2020 Annual Meeting](#), [International Risk Management Conference 2020 Annual Meeting](#); Accepted (canceled due to COVID-19) by [FMA European 2020](#) and [EFMA 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.
3. **Long-term Asset-Liability Management for Variable Annuities** (with [Aparna Gupta](#))
 - Presented at the [Masters' Scholars Research Program, Rensselaer Polytechnic Institute](#)
 4. **Certainty Equivalent Interest Rate Parity** (with [Lloyd Blenman](#))

TEACHING

University of North Carolina - Charlotte

1. BPHD 8220 Financial Economic Theory II, TA for Prof. Weidong Tian Fall 2020
 - Second-year PhD course that emphasizes the asset pricing in continuous time and its applications.
 - Topics include: Optimal portfolio choice, Equilibrium, Real Option Models, Production Models, and Term Structure Model.
2. BPHD 8200 Financial Economic Theory I, TA for Prof. Weidong Tian Fall 2020
 - First-year PhD course that emphasizes the fundamental ideas, mathematical techniques and main results in the area of asset pricing theory.
 - Topics include: Optimal Portfolio choice, Market Equilibrium, and Fundamental Theorems.
3. FINN 6216 Quantitative Risk Management, TA for Prof. Weidong Tian Spring 2020
 - This course offers quantitative techniques and tools for the risk management
 - Topics include: VaR and Expected Shortfall, univariate and multivariate models, copulas and tail dependence, and back testing

Rensselaer Polytechnic Institute

1. Math 1010 Calculus I, TA (with recitation session) for Prof. Gina Kucinski Fall 2017
 - Gave recitation class to 120 undergraduate students, 4 hours per week
 - Assisted in the Math Mentoring Program with the goal that all Engineering and Science students should become proficient in solving calculus and other basic problems

HONORS AND AWARDS

Ph.D. Graduate Assistantship, University of North Carolina - Charlotte.	2018 - 2023
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)	2018

Highlighted on RPI Admissions Website as Outstanding Graduate Scholar (Links)	2018
Masters Research Fellowship Award, Global Association of Risk Professionals	2017
Graduate Teaching Assistantship, Rensselaer Polytechnic Institute	2017
Summer Research Assistantship, Rensselaer New Knowledge and Innovation Program	2017
Masters' Scholars Research Program Award, Lally School Rensselaer Polytechnic Institute	2017
Best Student Paper Award, Beijing Foreign Studies University	2016
Social Service Award, Beijing Foreign Studies University	2014

CONFERENCE AND SEMINARS (*presented by co-authors)

2021	American Finance Association Annual Meeting (<i>Scheduled</i>) Midwest Finance Association Annual Meeting (<i>Scheduled</i>)
2020	Southern Finance Association Annual Meeting WashU Finance Brownbag INFORMS Annual Meeting International Risk Management Conference Annual Meeting European Financial Management Association Annual Meeting (<i>Canceled due to COVID-19</i>) Financial Management Association European Meeting (<i>Postponed due to COVID-19</i>)
2019	UNC Charlotte Joint Doctoral Workshop
2018	INFORMS Annual Meeting INFORMS Annual Meeting (Best Student Paper Competition) Financial Management Association Annual Meeting* European Financial Management Association Annual Meeting* International Risk Management Conference Annual Meeting*

DISCUSSIONS

2020	SFA "Range-based Expectations", by Natalie Zhu FMA "The Early Exercise Risk Premium", by Kevin Aretzy and Adnan Gazi
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PROFESSIONAL SERVICE

Session Chair	Southern Finance Association Annual Meeting 2020 Financial Management Association Annual Meeting 2020
Committee Reviewer	Eastern Finance Association Annual Meeting 2021

PROFESSIONAL MEMBERSHIP

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

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

REFERENCE

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