

EDUCATION	<b>City University of Hong Kong</b>	Hong Kong, China
	<i>Ph.D. in Decision Analytics and Operations</i>	2026 (expected)
	<ul style="list-style-type: none"> <li>• Advisor: Prof. FENG Guanhao, Prof. ZHOU Zhixin</li> <li>• Research Area: Machine Learning, Asset Pricing</li> </ul>	
	<b>Peking University</b>	Beijing, China
	<i>M.S. in Statistics</i>	2021
	<b>Jilin University</b>	Changchun, China
	<i>B.S. in Statistics (First Major )</i>	2017
	<b>Jilin University</b>	Changchun, China
	<i>B.S. in Insurance (Dual Degree)</i>	2017

RESEARCH INTEREST      Machine learning , Textual Analysis, Empirical Asset Pricing, FinTech.

PUBLISHED PAPER	<b>Can News Predict Firm Bankruptcy?</b>	2025
	<ul style="list-style-type: none"> <li>• with BIE Siyu, FENG Guanhao, and HE Jingyu.</li> </ul> <i>Journal of Financial Markets</i> 2025	

**Abstract:** This paper examines whether real-time business news predicts firm bankruptcy. Using full-text daily articles from the Dow Jones Newswires database, we generate firm-level predictors with ChatGPT and benchmark against FinBERT and dictionary-based models. ChatGPT-based variables outperform alternatives, with sentiment scores showing predictive power across horizons. Full-text news significantly enhance predictive accuracy over headlines. News-based measures add explanatory power beyond financial variables. Finally, we show that news captures timely information on macroeconomic conditions relevant to bankruptcy prediction, such as VIX, real GDP growth, and recession probability.

	<b>Fast Conformal Prediction using Conditional Interquantile Intervals</b>	2026
	<ul style="list-style-type: none"> <li>• with LUO Rui, and ZHOU Zhixin.</li> </ul> Forthcoming, <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> 2026	

**Abstract:** We introduce Conformal Interquantile Regression (CIR), a conformal regression method that efficiently generates minimal prediction intervals with guaranteed coverage. CIR leverages black-box machine learning models to estimate outcome distributions through interquantile ranges, transforming these estimates into compact prediction intervals while achieving approximate conditional coverage. We further propose CIR+ (Conditional Interquantile Regression with More Comparison), which enhances CIR by incorporating a width-based selection mechanism for interquantile intervals. This refinement yields narrower prediction intervals while maintaining comparable coverage, though at the cost of slightly increased computational time. Both methods address key limitations of existing distributional conformal prediction approaches: they handle skewed distributions more effectively than Conformalized Quantile Regression, and they achieve substantially higher computational efficiency than Conformal Histogram Regression by eliminating the need for histogram construction. Extensive experiments on synthetic and real-world datasets demonstrate that our methods optimally balance predictive accuracy and computational efficiency compared to existing approaches.

WORK IN PROGRESS	<b>One News, Two Markets: LLM-Derived Sentiment and Trading Volume</b> <ul style="list-style-type: none"> <li>• with BIE Siyu, FENG Guanhao, and HE Jingyu.</li> </ul> Under review at <i>Management Science</i> .	
	<b>Group Lasso for Factor Selection</b> <ul style="list-style-type: none"> <li>• with Arash A. Amini, ZHOU Zhixin, and FENG Guanhao.</li> </ul>	
ACADEMIC SERVICES AND TEACHING	<b>Reviewer:</b> NeurIPS, ICLR, AAAI.	
	<b>Teaching Assistant:</b> Probability and Statistics (2018) Deep Learning (2018) Advanced Mathematics (2019) Probability with Applications in Business (2021-2023) Introduction to Mathematical Statistics (2022)	
SKILLS	<b>Programming:</b> Python, R, Linux, MATLAB, Stata, SAS. <b>Database:</b> Dow Jones Newswires, CRSP, Compustat, TRACE.	
AWARDS AND HONORS	<ul style="list-style-type: none"> <li>• <b>Scholarship</b> Second-class Scholarship (2014, 2017)</li> <li>• <b>Scholarship</b> National Scholarship (2015)</li> <li>• <b>Scholarship</b> First-class Scholarship (2016)</li> <li>• Outstanding Student (2016)</li> <li>• National Undergraduate Innovation and Entrepreneurship Training Program (2016)</li> </ul>	
REFERENCES	<b>FENG Guanhao Gavin</b> Associate Professor Supervisor/Chair, Qualifying Panel Dept. of Decision Analytics&Operations City University of Hong Kong E-mail: gufeng@cityu.edu.hk	
	<b>LUO Lorry Rui</b> Assistant Professor Qualifying Panel Member Dept. of Systems Engineering City University of Hong Kong E-mail: ruiluo@cityu.edu.hk	<b>HE Jingyu</b> Assistant Professor Qualifying Panel Member Dept. of Decision Analytics&Operations City University of Hong Kong E-mail: jingyuhe@cityu.edu.hk