

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

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

PUBLISHED PAPER	Can News Predict Firm Bankruptcy?	2025
	<ul style="list-style-type: none"> • with BIE Siyu, FENG Guanhao, and HE Jingyu. <i>Journal of Financial Markets</i> 2025	
	<p><i>Abstract:</i> 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.</p>	
	Fast Conformal Prediction using Conditional Interquantile Intervals	2026
	<ul style="list-style-type: none"> • with LUO Rui, and ZHOU Zhixin. Forthcoming, <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> 2026	
	<p><i>Abstract:</i> 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.</p>	

WORK IN PROGRESS	Cross-Market News Sentiment and Trading Volume	
	<ul style="list-style-type: none"> • with BIE Siyu, FENG Guanhao, and HE Jingyu. 	
	Group Lasso for Factor Selection	
	<ul style="list-style-type: none"> • with Arash A. Amini, ZHOU Zhixin, and FENG Guanhao. 	
ACADEMIC SERVICES AND TEACHING	The Role of News in Supply Chain	
	<ul style="list-style-type: none"> • with FENG Guanhao, and SUN Teng. 	
	Reviewer:	
	NeurIPS, ICLR, AAAI.	
SKILLS	Teaching Assistant:	
	Probability and Statistics (2018)	
	Deep Learning (2018)	
	Advanced Mathematics (2019)	
AWARDS AND HONORS	Probability with Applications in Business (2021-2023)	
	Introduction to Mathematical Statistics (2022)	
	Programming: Python, R, Linux, MATLAB, Stata, SAS.	
	Database: Dow Jones Newswires, CRSP, Compustat, TRACE.	
REFERENCES	<ul style="list-style-type: none"> • Scholarship Second-class Scholarship (2014, 2017) • Scholarship National Scholarship (2015) • Scholarship First-class Scholarship (2016) • Outstanding Student (2016) • National Undergraduate Innovation and Entrepreneurship Training Program (2016) 	
	FENG Guanhao Gavin	WAN Tze-Kin Alan
	Associate Professor	Chair Professor
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